A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

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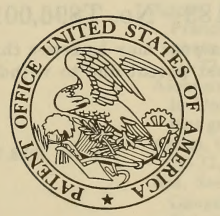
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Abell, Kendrick M. Test scoring method and apparatus. 3,631,611, 1-4-72, Cl. 35-48.
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Abell, Roy F., Jr., to Eaton Corporation. Hydraulic valve lifter. 3,704,696, 12-5-72, Cl. 123-90.330.
Abell, William A., Jr., to International Business Machines Corporation. Pneumatic phrase/format writer utilizing card cartridge and featuring cyclical mechanism for reading a succession of cards as well as programming the tabulation and other functions of n interconnected printer. 3,656,601, 4-18-72, Cl. 197-20.000.
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Abercrombie, Jonathan C., to General Electric Company. Latch device. 3,704,906, 12-5-72, Cl. 292-247.000.
Aberer, James B.; Mead, Bill G.; and Farkas, Joseph J., to Rival Manufacturing Company. Can opener with removable hand lever. 3,688,400, 9-5-72, Cl. 30-4.00r.
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Aberg, Martin Birger. Door with sections telescopically displaceable into each other. 3,698,465, 10-17-72, Cl. 160-222.000.
Abernathy, Robert G., to Avco Corporation. Combination rivet installation apparatus and self-drilling rivet. 3,659,449, 5-2-72, Cl. 72-391.000.
Abernathy, Roger E.; and Mitrofanoff, Nicholas S., to International Business Machines Corporation. Multiple program digital computer. 3,676,852, 7-11-72, Cl. 340-172.500.
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Abler Roger L.; and Strand, David L., to Minnesota Mining and Manufacturing Company. Aerosol spray cleaner-polish. 3,669,892, 6-13-72, Cl. 252-90.000.
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Abos, Ralph L., to Ecom-Systems, Inc., mesne. Diverter valve. 3,690,565, 9-12-72, Cl. 239-447.000.
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Abplanalp, George W.; and Corson, Steve. Blocking circuit for inboard engine ignition. 3,662,727, 5-16-72, Cl. 123-179.
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Abraham, Anton, 1/2 to Wiener Kammfabrik Anton Abraham Komm. Ges. Hair securing means, particularly a hair-clasp or barrette, or a hair-comb with such securing means. 3,645,278, 2-29-72, Cl. 132-48.
Abraham, Bruce C.; Fegley, Charles R.; and Lougher, George B., III, to Western Electric Company, Incorporated. Article handling with fluid ejection. 3,674,141, 7-4-72, Cl. 209-74.000.
Abraham, Dennis G.; and Pawletko, Joseph P., to International Business Machines Corporation. Stepping motor control system using pulse injection. 3,694,725, 9-26-72, Cl. 318-685.000.
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Abrahamsson, Sixten. Time interval generating apparatus. 3,651,486, 3-21-72, Cl. 340-172.5.
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Abrams, Andrew M., to Union Camp Corporation. Box structure convertible into an easel. 3,645,382, 2-29-72, Cl. 206-45.21.
Abrams, Andrew M., to Union Camp Corporation. Block structure with a reinforcing filler. 3,675,345, 7-11-72, Cl. 35-69.000.
Abrams, Harvey W. Traffic marker having gravity switch controlled. 3,660,817, 5-2-72, Cl. 340-114.
Abrams, Paul S.; and Peterson, Rudolph G., to Carco, Inc. Marking device. 3,653,596, 4-4-72, Cl. 239-93.
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Abrams, Richard Lee; and Glass, Alastair Malcolm, to Bell Telephone Laboratories, Incorporated. Narrow band electromagnetic, pyroelectric radiation devices using piezoelectric detectors. 3,654,466, 4-4-72, Cl. 250-83.3.
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Abreu, Christian O.; Bernhard, John S.; and Chiavaroli, Henry T., to Xerox Corporation. Cleaning apparatus. 3,654,654, 4-11-72, Cl. 15-1.5.
Abriss, Murray S. Method for stabilizing latices. 3,640,935, 2-8-72, Cl. 260-29.6.
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Abt, Jurg, to Zellweger Ltd. Method and apparatus for identifying articles. 3,681,570, 8-1-72, Cl. 235-61.70r.
Abt, Ronald C., to Cincinnati Milacron Inc. Electrochemical machining apparatus. 3,647,671, 3-7-72, Cl. 204-224.
Abt, Ronald C., to Cincinnati Milacron Inc. Quick-change holder for ECM tools. 3,668,105, 6-6-72, Cl. 204-297.00r.
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Abu-Isa, Ismat A., to General Motors Corporation. Polypropylene plating process. 3,681,114, 8-1-72, Cl. 117-47.00a.
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Abuel-Haj, Marwan J., to Pfizer, Inc. 2-Heterocyclic substituted quinoxaline-1, 4-dioxides. 3,671,521, 6-20-72, Cl. 260-244.00r.
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Aceto, Nicholas C.; Naghski, Joseph; and Komanowsky, Michael, to United States of America, Agriculture. Process for producing granular and fibrous collagen dispersions. 3,665,988, 5-30-72, Cl. 146-227.000.
Acevedo, Generoso, to International Telephone and Telegraph Corporation. Overvoltage protection network. 3,681,660, 8-1-72, Cl. 317-20.000.
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Achler, Howard S.; and Kaufmann, Harold. Universal urethane die assembly and method of and apparatus for using same. 3,683,735, 8-15-72, Cl. 83-374.000.
Achs, Horst J., to Eaton Corporation. Pallet. 3,654,876, 4-11-72, Cl. 108-51.
Achten, Kort Joseph, to Illinois Tool Works Inc. Electrical plug contact. 3,697,931, 10-10-72, Cl. 339-95.00r.
Achterberg, Raymond C., to Giddings & Lewis, Inc. Automatic insert assembly system employing rotary transfer of the workpiece. 3,668,773, 6-13-72, Cl. 29-429.000.
Achterberg, Raymond C.; and Bunker, Charles L., to Giddings & Lewis, Inc. Automatic insert assembly machine and method employing deformation and linear transfer of workpieces. 3,691,618, 9-19-72, Cl. 29-430.000.
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Acker, Josef; Hofmann, Albert; and Fruhholz, Georg, to Acker, Jacob, & Sohne oHG. Curtain. 3,696,845, 10-10-72, Cl. 139-383.
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Acker, Norbert Karl, to Scanner, Inc. Color code system. 3,632,993, 1-4-72, Cl. 235-61.11.
Acker, Norbert Karl. Apparatus for reading randomly positioned data. 3,684,867, 8-15-72, Cl. 235-61.11e.
Acker, Norbert Karl to Scanner, Inc. Device for machine reading of information without manipulation of the information carrier. 3,701,098, 10-24-72, Cl. 340-146.30h.
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Ackerman, Daniel Whitney, to Universal Instruments Corporation. Wire wrap tool. 3,701,367, 10-31-72, Cl. 140-119.000.
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Ackerman, James H., to Sterling Drug Inc. 3-(Carboxylalkanoylamino)-2,4,6-triiodohydrocinnamic acids. 3,637,825, 1-25-72, Cl. 260-518.
Ackerman, James H., to Sterling Drug Inc. 5-Substituted-1,3-benzenediacrylic and dipropionic acids. 3,647,864, 3-7-72, Cl. 260-515.
Ackerman, James H., to Sterling Drug Inc. 3-Cyclic imides of 3-amino-2,4,6-triiodohydrocinnamic acids. 3,655,669, 4-11-72, Cl. 260-281.
Ackerman, James H.; and Laidlaw, George M., to Sterling Drug Inc. Isomers of 2,4,6-trihalo-N,N,N',N'-tetraalkylisophthalamides. 3,655,752, 4-11-72, Cl. 260-558.
Ackerman, James H., to Sterling Drug Inc. Bis cyclic imides of 3-substituted 2,4,6-triiodoanilines. 3,660,408, 5-2-72, Cl. 260-281.
Ackerman, James H., to Sterling Drug Inc. Iodinated 3-aminobenzamides. 3,666,760, 5-30-72, Cl. 260-247.2.
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Ackerman, Joseph Francis; Weisfeld, Joseph; Savageau, Robert George; and Beerli, George, to Inmot Corporation. Actinic radiation curing compositions and method of coating and printing using same. 3,673,140, 6-27-72, Cl. 260-22.0tn.
Ackerman, Tracy R.; and Schickler, John F., to General Motors Corporation. Flow process. 3,674,087, 7-4-72, Cl. 165-2.000.
Ackermann, Franz; Duennenberger, Max; and Siegrist, Adolf Emil, to Intracolor Corporation, mesne. α,β Di-[5-methyl-benzoxazolyl-(2)]-ethylene optical brightening agent. 3,649,623, 3-14-72, Cl. 260-240.
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Ackermann, Harry John; Blessin, Louis Dewey; Hermann, Leroy Nicholas; Ririe, Max Henry; and Swinbank, Everett John. Automatic poultry feeding device. 3,693,593, 9-26-72, Cl. 119-52.0af.
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Ackermann, Jacob; Bianchi, Gaudenzio; and Radici, Pierino, to Societa Italiana Resine S.p.A. Stabilized formaldehyde polymers containing polyvinyl pyrrolidone and thiobisphenols. 3,632,686, 1-4-72, Cl. 260-895.
Ackermann, Jacob; Croce, Roberto; and Reguzzoni, Riccardo, to Societa Italiana Resine S.p.A. Process for preparing acrylic or methacrylic acid. 3,657,331, 4-18-72, Cl. 260-526.
Ackermann, Jacob; Croce, Roberto; and Reguzzoni, Riccardo, to Societa' Italiana Resine S.p.A. Process for preparing acrylic or methacrylic acid. 3,670,016, 6-13-72, Cl. 260-526.
Ackermann, Jacob; Ferre, Franceo; and Felice, Tetaz, to Societa Italiana Resine S.p.A. Process for polymerizing gaseous formaldehyde. 3,687,899, 8-29-72, Cl. 260-67.0fp.
Ackermann, Jacob; Radici, Pierino; and Ferre, Franco, to Societa Italiana Resine S.p.A. Stabilized formaldehyde polymers. 3,692,876, 9-19-72, Cl. 260-895.000.
Ackermann, Joseph, to Siemens-Electrogerate G.m.b.H. Device for cleaning the walls of the muffle chamber of baking and roasting ovens. 3,678,245, 7-18-72, Cl. 219-396.000.
Ackermann, Karl, to Bosch, Robert, Photokino G.m.b.H. Electronic flash unit. 3,636,406, 1-18-72, Cl. 315-241.
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Acket, Gerard Adriaan; and Vlaardingerbroek, Marinus Teunis, to U.S. Philips Corporation. Semiconductor device for amplifying microwaves. 3,648,185, 3-7-72, Cl. 330-5.
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Acquadro, Edward W.; and Monahan, Donald F., to International Business Machines Corporation. Dynamic keyboard data entry system. 3,706,973, 12-19-72, Cl. 340-172.500.
Acre, Thomas R.; Gimbel, Frederick M.; Ramachandran, Sundaresan; and Beck, Thomas F., to Allegheny Ludlum Industries, Inc. Consumable lance. 3,645,520, 2-29-72, Cl. 266-34.
Acree, Elick H.; Brashear, Hugh R., Jr.; and Case, Forrest N., to United States of America, Atomic Energy Commission. Device for inserting tagged sand into ocean floor. 3,697,756, 10-10-72, Cl. 250-106.00t.
Acree, Elick H.; Case, Forrest Neil; and Stephens, Nancy H., to United States of America, Atomic Energy Commission. Method for mass tagging sand with a radioactive isotope. 3,700,602, 10-24-72, Cl. 252-301.10r.
Acres, Ronald C., to General Electric Company. Device for locking turbomachinery blades. 3,632,228, 1-4-72, Cl. 416-220.
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Actor, Philip Paul; and Pagano, Joseph Frank, to Smith Kline & French Laboratories. 5(6)-n-Butyl-2-carbomethoxy-benzimidazole. 3,682,952, 8-8-72, Cl. 260-309.200.
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Adachi, Iwao P., to Itek Corporation. Optical surface generating apparatus. 3,669,867, 6-13-72, Cl. 204-224.000.
Adachi, Kazuo; Tai, Akira; and Higashi, Fukuji, to Tekkosha Co., Ltd. Polymer derived from dialkyl succinylsuccinates and diamines. 3,635,888, 1-18-72, Cl. 260-47.
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Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Circuit for rapid note passage in electronic musical instrument. 3,651,729, 3-28-72, Cl. 84-91.17.
Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Sound level control device in electronic musical instrument employing touch responsive keying means. 3,651,730, 3-28-72, Cl. 84-1.24.
Adachi, Takeshi; and Okumura, Takatosi, to Nippon Gakki Seizo Kabushiki Kaisha. Percussion keyer for an electronic musical instrument. 3,652,775, 3-28-72, Cl. 84-1.26.
Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Monophonic electronic musical instrument with a variable frequency oscillator employing positive feed back. 3,659,031, 4-25-72, Cl. 84-1.01.
Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Keying system capable of producing piano-tone effects for use in electronic musical instruments. 3,697,662, 10-10-72, Cl. 84-1.130.
Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Muscular voltage-controlled tone modifying system for electronic musical instrument. 3,699,234, 10-17-72, Cl. 84-1.240.
Adachi, Teruho, to Sumitomo Chemical Company, Ltd. Preparation of aromatic polyamides by interfacial polycondensation. 3,663,517, 5-16-72, Cl. 260-78.
Adachi, Toshio; Onishi, Masayoshi; and Hayashi, Kiyohide, to Daido Seiko Kabushiki Kaisha. Electrical transfer type plasma arc melting furnace. 3,671,655, 6-20-72, Cl. 13-1.000.
Adachi, Toshio; Hayashi, Kiyohide; and Okura, Yukio, to Daido Seiko Kabushiki Kaisha. Ingot casting apparatus. 3,700,026, 10-24-72, Cl. 164-256.000.
Adachi, Toshio; Funakisko, Sayoko; Furuya, Akio; and Uchida, Masakatsu, to Dai Nippon Toryo Company, Ltd. Resinous composition. 3,700,624, 10-24-72, Cl. 260-31.600.
Adaev, Evgeny Ivanovich; Blinov, Alexandr Vasilievich; and Kamarian, Georgy Mikirtychevich. Device for setting cathodes in electrolyzers. 3,645,878, 2-29-72, Cl. 204-243.
Adaev, Evgeny Ivanovich; Blinov, Alexander Vasilievich; Kamaria, Georgy Mikirtychevich; Alexandrovich, Novoslelov Viktor; and Yakimenko, Leonid Markovich. Templet hat method for assembling cathode caps electrolyzer for molten salts. 3,685,121, 8-22-72, Cl.29-203.00j.
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Adaglio, Marie-Francoise. Warning device for cylinders for liquefied gas under pressure. 3,640,241, 2-8-72, Cl. 116-109.
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Adahan, Carmeli. Fluid control valve. 3,704,727, 12-5-72, Cl. 137-625.650.
Adair, Edwin Lloyd. Retention catheter and suprapubic shunt. 3,692,029, 9-19-72, Cl. 128-349.00r.
Adair, James Richard, to United Engineering and Foundry Company. Rotatable mandrel. 3,658,274, 4-25-72, Cl. 242-72.1.
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Adair, Robert S., to United States of America, Navy. Vertical reference pendulum. 3,675,549, 7-11-72, Cl. 95-1.100.
Adam, Georges Clement. Cable clamping device. 3,638,172, 1-25-72, Cl. 339-249.
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Adam, Robert; and Keefer, Dayle. Setting device for a boring tool. 3,673,694, 7-4-72, Cl. 33-185.00r.
Adam, Vernon F.; and Vogel, Carl A. Trailer for erecting and transporting storage tanks. 3,687,319, 8-29-72, Cl. 214-501.000.
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Adams, Albert John. Vehicle seat support. 3,700,203, 10-24-72, Cl. 248-419.000.
Adams, Anthony L.; Yearsley, Gerald A.; Simmons, Marion I.; and Yager, Billy P., to Texas Instruments, Incorporated. Method of ball bonding with an automatic semiconductor bonding machine. 3,641,660, 2-15-72, Cl. 29-471.1.
Adams, Archibald H., to Gulf Oil Corporation. Method of manufacturing liquid phase for explosive slurries. 3,707,412, 12-26-72, Cl. 149-46.000.
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Adams, Arthur C.; deceased (by Adams, Mary; administratrix), to American Home Products Corporation. Process for the preparation of high density N,N'-dibenzyl-ethylenediamine bis[D(-)-α-aminobenzylpenicillin]. 3,637,665, 1-25-72, Cl. 260-239.1.

Adams, Bobby D., to Texas Instrument Engineers, Inc., mesne. Chart changing apparatus. 3,638,236, 1-25-72, Cl. 346-137.

Adams, Bobby F.; Pyne, William J.; and Gullo, James M., to Diamond Shamrock Corporation. Method of killing fungus on plants. 3,639,608, 2-1-72, Cl. 424-274.

Adams, Cecil E., to Abex Corporation. Electro-hydraulic flow control circuit. 3,636,977, 1-25-72, Cl. 137-608.

Adams, Cecil E.; and Dillon, Leo H., to Abex Corporation. Combination relief and shuttle valve. 3,650,291, 3-21-72, Cl. 137-491.

Adams, Cecil E., to Abex Corporation. Electro-hydraulic flow control circuit. 3,700,396, 10-24-72, Cl. 91-449.000.

Adams, Cecil S., to Adams, Incorporated. Yarn break detector. 3,672,146, 6-27-72, Cl. 57-81.

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Adams, Charles D.; and Wommack, Joel B., Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing alkyl 2-benzimidazolecarbamates. 3,705,173, 12-5-72, Cl. 260-309.200.

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Adams, Clark E.; and House, William T., to Esso Research and Engineering Company. Slurry hydrodesulfurization of a heavy petroleum oil. 3,668,116, 6-6-72, Cl. 208-216.000.

Adams, David A., to Coastal Zone Resources Corporation of N.C. Oyster clutch and assembly jig. 3,685,490, 8-22-72, Cl. 119-4.000.

Adams, David K.; and Ho, Raymond Y.-C., to Stanford Research Institute. Loss cancelling resonator and filters. 3,680,011, 7-25-72, Cl. 333-70.00r.

Adams, Dolor N.; and Fauser, Donald L., to Harris-Intertype Corporation. Coating compositions and methods and articles. 3,669,657, 6-13-72, Cl. 96-1.8.

Adams, Don, III, to Chrysler Corporation. Steering column. 3,685,369, 8-22-72, Cl. 74-492.000.

Adams, Don L.; and Allen, Nicholas, to United Aircraft Corporation. Flight control disabling system. 3,665,217, 5-23-72, Cl. 307-235.

Adams, Duane J., to Martin-Marietta Corporation. Wideband balanced current probe. 3,684,955, 8-15-72, Cl. 324-72.000.

Adams, Edward J., to Gillette Company, The. Apparatus for mounting caps. 3,662,519, 5-16-72, Cl. 53-329.

Adams, Edward J., to Gillette Company, The. Process of assembling pressure container and overcap. 3,694,891, 10-3-72, Cl. 29-428.000.

Adams Equipment Company, Incorporated: *See—*
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Adams, Frederick J., to Cam Gears Limited. Sealing rings. 3,645,542, 2-29-72, Cl. 277-1.

Adams, Frederick J., to Cam Gears Limited. Power assisted steering system. 3,669,146, 6-13-72, Cl. 137-596.200.

Adams, Frederick John, to Cam Gears Limited. Power-assisted steering and like systems. 3,645,296, 2-29-72, Cl. 137-625.69.

Adams, Gary A., to Koehring Company. Part removing mechanism for removing container parts and the like from nested stacks of parts. 3,640,408, 2-8-72, Cl. 214-8.5.

Adams, George F., to Universal Oil Products Company. Para-xylene recovery and production. 3,702,347, 11-7-72, Cl. 260-674.00a.

Adams, George F., Sr. Angle guide for electric saw and router. 3,645,306, 2-29-72, Cl. 143-6.

Adams, George R., to Adams Equipment Company, Incorporated. Multi-stage sprayer. 3,633,829, 1-11-72, Cl. 239-428.

Adams, Gerald E., to Uniroyal, Inc. Toothed power transmission belt and method of manufacturing the same. 3,673,883, 7-4-72, Cl. 74-233.000.

Adams, Gerald E.; and Van Buskirk, Edward C., to Uniroyal, Inc. Thermoformable laminated sheet material having elastomeric block copolymer core and ABS plastic covering layers. 3,682,768, 8-8-72, Cl. 161-253.000.

Adams, Harvey Keith, to Radco Manufacturing Co., Inc. Water ski rack. 3,701,436, 10-31-72, Cl. 211-60.0sk.

Adams, Harvey N. Protective coating for surfaces of silver and mirror fabrication. 3,687,713, 8-29-72, Cl. 117-71.00r.

Adams, Henry G., to International Telephone and Telegraph Corporation. Automatic direction finder. 3,701,155, 10-24-72, Cl. 343-117.00r.

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Adams, Jack C., to Ecological Controls, Inc. Combustion chamber supplemental air supply assembly and method. 3,685,946, 8-22-72, Cl. 431-8.000.

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Adams, James E.; and Haas, Werner E. L., to Xerox Corporation. Liquid crystal color filter. 3,669,525, 6-13-72, Cl. 350-158.000.

Adams, James E.; Leder, Lewis B.; and Haas, Werner E. L., to Xerox Corporation. Liquid crystal optical filter system. 3,679,290, 7-25-72, Cl. 350-157.000.

Adams, James E.; and Leder, Lewis B., to Xerox Corporation. Tuning method for plural layer liquid crystal filters. 3,697,152, 10-10-72, Cl. 350-158.000.

Adams, James E., Jr.: *See—*
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Adams, James R., Jr., to Honeywell Inc. Late phase firing switching circuit. 3,673,436, 6-27-72, Cl. 307-246.000.

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Adams, James William; and Tilloson, August Henry, to American Can Company. Viscosty increasing agent of polymer-grafted cellulose fibers and method therefor. 3,682,856, 8-8-72, Cl. 260-17.4gc.

Adams, Jay C.; and Cook, Russell E., to Ranco Incorporated. Control device for pressure lubricated compressors. 3,673,811, 7-4-72, Cl. 62-158.000.

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Adams, John B., to Du Pont de Nemours, E. I., and Company. 2,1,4-Benzothiadiazine-3-carbamic acid ester. 3,655,657, 4-11-72, Cl. 260-243.

Adams, John F.; and Steltzer, Ernest R. Vehicle marker light. 3,692,998, 9-19-72, Cl. 240-8.200.

Adams, John Howard, to Chevron Research Company. Polypropylene stabilized with metal salts of N-hydroxyalkylbenzyl alkylenepolyamines. 3,678,000, 7-18-72, Cl. 260-45.75n.

Adams, John Howard, to Chevron Research Company. Polypropylene stabilized by nickel salts of N-(hydroxyalkylbenzyl) alkylenepolyamines. 3,678,001, 7-18-72, Cl. 260-45.75n.

Adams, John Howard, to Chevron Research Company. Substituted flavanones. 3,678,044, 7-18-72, Cl. 260-240.00f.

Adams, John, Jr. Traction motor inspection cover. 3,662,198, 5-9-72, Cl. 310-89.

Adams, John Q., IV. Device facilitating use of dental floss. 3,696,821, 10-10-72, Cl. 132-91.000.

Adams, John S.: *See—*
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Adams, John S., Jr.; and Gerwitz, David L., to Monsanto Company. 2,5-Disubstituted α-iodoacetanilides. 3,642,895, 2-15-72, Cl. 260-562.

Adams, Joseph E.; Di Stefano, Edmund J.; and Enderley, Arthur E., to International Business Machines Corporation. Dual acting probe with extractor/guide. 3,693,087, 9-19-72, Cl. 324-158.00p.

Adams, Kenneth D., to Singer Company, The. Pattern cam removal mechanism for sewing machines. 3,648,633, 3-14-72, Cl. 112-158.

Adams, Kenneth D.; and Odermann, Charles R., to Singer Company, The. Monogramming insert for buttonhole attachment. 3,669,044, 6-13-72, Cl. 112-77.000.

Adams, Kenneth D., to Singer Company, The. Push button presser bar release. 3,669,050, 6-13-72, Cl. 112-237.000.
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Adams, Ladd M., to Balon Corporation. Valve actuator. 3,675,420, 7-11-72, Cl. 60-51.000.
Adams, Ladd M., to Balon Corporation. Method and apparatus for finishing spherical surfaces. 3,696,695, 10-10-72, Cl. 82-16.000.
Adams, Larry D. Wall construction. 3,702,522, 11-14-72, Cl. 52-476.000.
Adams, Lawrence R.; and Kamentsky, Louis A., to Bio/Physics Systems, Inc. Method for analysis of blood by optical analysis of living cells. 3,684,377, 8-15-72, Cl. 356-36.000.
Adams, Lloyd M.; and Hoelscher, Robert L., to Cubic Corporation. Film transport deck unit. 3,697,017, 10-10-72, Cl. 242-189.000.
Adams, Lowell J., to Goodrich, B. F., Company, The. Electrical deicer for aircraft propeller. 3,657,514, 4-18-72, Cl. 219-201.
Adams, Madison B. Power assisting assembly for a clutch mechanism. 3,677,379, 7-18-72, Cl. 192-91.00r.
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Adams, Patrick James; and Lewis, Richard Newton, to Stauffer Chemical Company. Process for grafting organopolysiloxanes. 3,694,478, 9-26-72, Cl. 260-448.20e.
Adams, Peter F.: *See—*
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Adams, Phillip; and Petrocci, Alfonso N., to Millmaster Onyx Corporation. Microbiocidal naphthenyl imidazolines. 3,705,027, 12-5-72, Cl. 71-67.000.
Adams, Ralph C.; and Anderson, John R., to Sybron Corporation. Method of operating and regenerating ion exchange apparatus. 3,632,506, 1-4-72, Cl. 210-34.
Adams, Ralph D.; and Lopez, Efrain D., to Omark-Winslow Aerospace Tool Co. Apparatus for machining cutter teeth. 3,691,696, 9-19-72, Cl. 51-95.0tg.
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Adams, Richard C.; Merian, John A.; and McGlashan, John, to Schjeldahl, G. T., Company. Retarder mechanism. 3,653,177, 4-4-72, Cl. 53-182.
Adams, Richard Calvin, to Schjeldahl, G. T., Company. Re-wind mechanism with profiled cam-potentiometer. 3,687,389, 8-29-72, Cl. 242-67.500.
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Adams, Robert B., to Moore Products Co. Flow meter. 3,640,133, 2-8-72, Cl. 73-194.
Adams, Robert D.; and Sharland, Ian J. Muffled tool for vibratory or impact machines. 3,662,855, 5-16-72, Cl. 181-33.00a.
Adams, Robert H., to Lockheed Aircraft Corporation. Modular solid-state power amplifier. 3,675,141, 7-4-72, Cl. 330-13.000.
Adams, Robert J.; and Overhults, Wendell C., to Johnson & Johnson. Adhesive cement. 3,663,501, 5-16-72, Cl. 260-41.
Adams, Robert J. Container washing apparatus. 3,664,355, 5-23-72, Cl. 134-143.
Adams, Robert P., to Cenco Medical/Health Supply Corporation, mesne. Apparatus for tissue preparation. 3,639,999, 2-8-72, Cl. 34-92.
Adams, Robert P., to Albany Enterprises, Inc. Circular slide rule. 3,648,025, 3-7-72, Cl. 235-83.
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Adams, Rodney V.; and Medlin, Roger E., to Westinghouse Electric Corporation. Method and apparatus for transmitting information in meter reading. 3,676,875, 7-11-72, Cl. 340-183.000.
Adams, Ronald Alfred Charles, to Algraphy Limited. Apparatus for applying a surface coating of a liquid to a sheet. 3,641,905, 2-15-72, Cl. 95-89.
Adams, Ronald Alfred Charles, to Algraphy Limited. Process of strengthening presensitized lithographic plate with lacquer emulsion. 3,669,664, 6-13-72, Cl. 96-33.000.
Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, to Boots Pure Drug Company Limited. Xanthene derivatives. 3,644,420, 2-22-72, Cl. 260-335.
Adams, Stewart Sanders; Armitage, Bernard John; Heathcote, Bernard Vincent; and Bristow, Norman William, to Boots Pure Drug Company Limited. Xanthenyl-amines. 3,681,373, 8-1-72, Cl. 260-308.00r.
Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, to Boots Pure Drug Company Limited. Xanthenyl semicarbazides. 3,686,218, 8-22-72, Cl. 260-335.000.
Adams, Thomas F.; Mattes, Lyle T.; and Roulund, Poul B., to FMA, Inc. Segmented light table. 3,639,746, 2-1-72, Cl. 240-2.
Adams, Wade L. Duct assembly unit for air-water induction system of air conditioning in multi-story buildings. 3,677,285, 7-18-72, Cl. 137-357.000.
Adams, Whitney B., to Scott Paper Company. Method for forming pyrolyzed structures. 3,676,173, 7-11-72, Cl. 117-21.
Adams, Whitney R., to Scott Paper Company. Coated porous structures and method for forming them. 3,667,984, 6-6-72, Cl. 117-21.
Adams, Wilbur Henry. Golden ratio playing blocks and golden rectangle frame. 3,698,122, 10-17-72, Cl. 46-17.000.
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Adams, William H.; and Painter, Charles D., to Armstrong Cork Company. Seam sealer dispensing head. 3,653,560, 4-4-72, Cl. 222-566.
Adams, William L., to Industrial Nucleonics Corporation. Process and apparatus for moisture and fiber content control in a paper-making machine. 3,666,621, 5-30-72, Cl. 162-198.
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Adams, William V., to Durametallic Corporation. Multilayer graphite seal ring. 3,655,206, 4-11-72, Cl. 277-87.
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Aday, Roy W., Jr.; and Lu, Maoyeh, to Beckman Instruments, Inc. Resilient mounting structure for moving at least two optical elements in precise optical alignment. 3,663,097, 5-16-72, Cl. 350-271.
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Addamiano, Arrigo; and Perusek, Ronald J., to General Electric Company. Single crystal silicon carbide display device. 3,636,397, 1-18-72, Cl. 313-108.
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Addie, Albert N., to General Motors Corporation. Engine turbosupercharger with vibration reducing drive. 3,667,214, 6-6-72, Cl. 60-13.000.
Addie, Albert N., to General Motors Corporation. Bi-modal vehicles with drive means for external or self-propulsion. 3,699,351, 10-17-72, Cl. 290-14.000.
Addin, Leo. Method of growing pear trees from slips. 3,645,041, 2-29-72, Cl. 47-58.
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De Cock, Etienne Marie, 3,697,759.
Pollet, Robert Joseph; and Willems, Jozef Frans, 3,681,078.
Poot, Albert Lucien, 3,681,074.
Timmerman, Daniel Maurice; Verhille, Karel Eugeen; and Van Paesschen, August Jean, 3,681,070.
Vrancken, Marcel Nicolas; Vanreusel, Gerard Laurens; Van Pee, Paul Desire; and De Laet, Jules Maria, 3,672,892.

Aggarwal, Trilok C.; and Hasz, John R., to Cincinnati Milacron Inc. Vibration absorber for a supported member. 3,690,414, 9-12-72, Cl. 188-1.00b.

Aggen, George: *See—*
Lula, Remus A.; Aggen, George; and Hammond, Charles M., 3,658,514.

Aggen, George, to Allegheny Ludlum Steel Corporation. Ferritic stainless steel. 3,650,731, 3-21-72, Cl. 75-128.

Aggias, Zissis, to Henkel & Cie G.m.b.H. Hardenable reaction products based on triglycidyl isocyanurate. 3,632,665, 1-4-72, Cl. 260-830.

Aggias, Zissis, to Henkel & Cie G.m.b.H. Internally plasticized epoxide resins of triglycidyl isocyanurate, hydroxy functional urethane polymer and polycarboxylic acid anhydride. 3,674,892, 7-4-72, Cl. 260-835.000.

Aghazadeh, Shirzad, to Singer Company, The, mesne. Digital encoding system wherein information is indicted by transition placement. 3,699,556, 10-17-72, Cl. 340-174.10g.

Aghnides, Elie P. Spray producing device in which the output jets are aerated. 3,633,824, 1-11-72, Cl. 239-428.5.

Agin, Gerald J., to International Business Machines Corporation. Digital velocity servo for D-C servo motor. 3,634,745, 1-11-72, Cl. 318-341.

Agin, Gerald J., to International Business Machines Corporation. Constant displacement stopping control. 3,668,494, 6-6-72, Cl. 318-373.000.

Aglaghanian, Jacques; and Drevet, Jean. Binding machine. 3,667,076, 6-6-72, Cl. 11-1.00a.

Agliata, Thomas P., to Xerox Corporation. Longitudinally insensitive lens strip imaging device. 3,655,284, 4-11-72, Cl. 355-18.

Aglitsky, Vladimir Efimovich: *See—*
Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Ilia Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.

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Agnew, Frank R.; Byrne, Francis P.; Kaczmarek, Thomas D.; Kriege, Owen H.; Gainer, Gordon C.; and Luck, Russell M., to Westinghouse Electric Corporation. Chemical contaminant detection sampler. 3,689,224, 9-5-72, Cl. 23-253.0tp.

Agnew, James Malcolm, to Coal Industry (Patents) Limited. Underframes for longwall mineral mining machines. 3,700,284, 10-24-72, Cl. 299-45.000.

Agnihotri, Ram K., to International Business Machines Corporation. Polydiacrylyl photosensitive compositions. 3,644,118, 2-22-72, Cl. 96-115.

Agnihotri, Ram K., to International Business Machines Corporation. Cyclic polyisoprene photoresist compositions. 3,669,662, 6-13-72, Cl. 96-75.000.

Agnone, John L.; Fister, Robert V.; and Sheppard, Jon C., to Eastman Kodak Company. D.C. sputtering of particulate polymeric compounds onto a substrate. 3,703,585, 11-21-72, Cl. 204-192.000.

Agolini, Franco, to Du Pont de Nemours, E. I., and Company. Polymeric phenone photosensitizers and blends thereof with other polymers. 3,641,217, 2-8-72, Cl. 260-897.

Agolini, Franco, to Du Pont de Nemours, E. I., and Company. Azoxy containing polyamide. 3,642,709, 2-15-72, Cl. 260-78.

Agolini, Franco; and Angelo, Rudolph John, to Du Pont de Nemours, E. I., and Company. Laminar structures of metal and crystalline copolyketones and method of forming same. 3,668,057, 6-6-72, Cl. 161-165.000.

Agon Fabrique d'Horlogerie, Robert Triebold SA: *See—*
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Hurt, Zeno, 3,656,292.

Agon Uhrenfabrik Kobert Triebold A.G.: *See—*
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Agonis, Henry A., to Anaconda Wire Cable Company. Coil pay off. 3,659,802, 5-2-72, Cl. 242-128.

Agosti, Ettore. Chair having identical and interchangeable seat and backrest. 3,655,239, 4-11-72, Cl. 297-331.

Agostinelli, Armand J., to Dart Industries Inc. Dual finish surgeon's glove. 3,637,411, 1-25-72, Cl. 117-18.

Agranat, Edward A.: *See—*
Blatt, William F.; Agranat, Edward A.; and Rigopulos, Peter N., 3,705,100.

Agrati, Eugenio; and Sala, Ennio. Cinematograph projector particularly for substandard films. 3,667,837, 6-6-72, Cl. 352-242.000.

Agrawala, Ashok K.: *See—*
Srivastava, Keshava; and Agrawala, Ashok K., 3,685,033.

Agrawala, Ashok K.; Dixon, Samuel J.; and Sollman, George H., to Honeywell Inc. Voltage controlled oscillator with constrained period of frequency change. 3,689,903, 9-5-72, Cl. 340-174.10h.

Agrecology, Incorporated: *See—*
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Agri-Tech, Inc.: *See—*
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Agricultural Biologicals Corporation: *See—*
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Agricultural Specialty Co., Inc.: *See*—
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Agristeel Limited: *See*—
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AGSRAD, Inc., mesne: *See*—
Rosen, Ian K.; and Holmgren, William C., 3,654,980.
Aguiar, Gabriel A., to Western Union Telegraph Company, The. Control of AC power by a logic comparator. 3,691,452, 9-12-72, Cl. 323-19.000.
Aguinet, Gerard; Manoury, Jean; and Martin, Edouard, to Societe Anonyme Ugine Kuhlmann. Manufacture of nitric acid. 3,658,472, 4-25-72, Cl. 23-160.
Aguirre, Enrique Renteria: *See*—
Solomka, Monroe M.; and Aguirre, Enrique Renteria, 3,706,829.
Aguirre, Michael C., to Honeywell Information Systems, Inc. Signal sampling circuit. 3,702,942, 11-14-72, Cl. 307-235.00r.
Ahbert, Robert J.: *See*—
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Ahearn, George P., to Esso Production Research Company. Dilatant aqueous polymer solutions. 3,663,477, 5-16-72, Cl. 252-311.500.
Ahillen, William G.: *See*—
Barrows, Richard G.; and Ahillen, William G., 3,633,134.
Ahland, Erwin: *See*—
Schmalfeld, Paul; Janssen, Heinrich; Bock, Burkhard; Peters, Werner; and Ahland, Erwin, 3,674,449.
Ahlberg, Erik Johan; Ekwall, Gosta Berhard; and Lingquist, Rolf Artur Ronald, to Atlas Copco Aktiebolag. Independently rotated pneumatic rock drill. 3,684,033, 8-15-72, Cl. 173-105.000.
Ahlberg, Erik Johan Victor; Ekwall, Gosta Bernhard; and Lindqvist, Rolf Artur Ronald, to Atlas Copco Aktiebolag. Independently rotated pneumatic rock drill. 3,659,657, 5-2-72, Cl. 173-105.
Ahldea Corporation: *See*—
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Ahle, James L.: *See*—
Doyle, William C., Jr.; and Ahle, James L., 3,650,728.
Ahle, James L., to Gulf Research & Development Company. Method of combating unwanted vegetation in sugar beet fields. 3,690,865, 9-12-72, Cl. 71-118.000.
Ahlers, Egon, to Seitz-Werke G.m.b.H. Entraining means for the crown corks used in connection with bottle closing machines. 3,683,588, 8-15-72, Cl. 53-64.000.
Ahlert, Wilhelm; Bungardt, Walter; Brusdeylins, Andreas; Damm, Paul; and Herget, Camillo, to Goldschmidt, Th., A.-G. Aluminothermic reaction mixture. 3,649,390, 3-14-72, Cl. 149-37.
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Ahlgren, James D., to Telcom, Inc. Constant gain bandwidth product communication satellite repeater. 3,667,043, 5-30-72, Cl. 325-3.
Ahlgren, Nils Harald; and Jahr, Odd. Jack assemblies. 3,685,801, 8-22-72, Cl. 254-105.000.
Ahlgrim, Michael: *See*—
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Ahlgrim, Michael; Kandler, Joachim; Lenz, Hans-Joachim; Mietens, Gerhard; and Ott, Willy, to Knapsack Aktiengesellschaft. Surface-pretreatment of articles made from polyethylene or polypropylene or corresponding copolymers for chemical nickel-plating. 3,64,514, 3-7-72, Cl. 117-47.
Ahlmann-Carlshutte KG: *See*—
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Ahlquist, Norman C.: *See*—
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Ahlrich, Willard K. Baffled ventilating hood. 3,645,194, 2-29-72, Cl. 98-115.
Ahlstone, Arthur G., to Vetco Offshore Industries, Inc. Direct drive casing hanger apparatus. 3,638,725, 2-1-72, Cl. 166-226.
Ahlstone, Arthur G., to Vetco Offshore Industries, Inc. Method of cementing a casing string in a well bore and hanging it in a subsea wellhead. 3,667,547, 6-6-72, Cl. 166-286.000.
Ahlstrom, A., Osakeyhtio: *See*—
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Ahmed, Kamal, to AMP Incorporated, mesne. Terminal for aluminum wire. 3,633,153, 1-4-72, Cl. 339-97.
Ahmed, Kamal, to AMP Incorporated, mesne. Slip ring assembly. 3,705,996, 12-12-72, Cl. 310-232.000.
Ahmed, Muktar; and Mallet, Victorin. Plasticization of amino compounds with hydrolyzed copolymers of vinyl monocarboxylate and products thereof. 3,652,712, 3-28-72, Cl. 260-837.
Ahmed, Nazeer, to Western Electric Company, Incorporated. Method of positive fluid flow extrusion and optimum fluid control element therefor. 3,677,050, 7-18-72, Cl. 72-60.
Ahn, Kie Y., to International Business Machines Corporation. Transition metal doped EuO films. 3,639,167, 2-1-72, Cl. 117-240.
Ahn, Kie Y.; and Methfessel, Siegfried. Magneto-optical elements. 3,642,533, 2-15-72, Cl. 117-237.
Ahn, Kie Y.; and Park, Kyu C., to International Business Machines Corporation. Bistable resistor of EuO, EuS, or EuSe doped with 3d transition or VA element. 3,656,029, 4-11-72, Cl. 317-235.
Ahn, Yong Kee; Cupples, Barrett L.; and Murphy, Clarence R., to Gulf Research & Development Company. Esterification of organic halides with reduced ether production. 3,686,285, 8-22-72, Cl. 260-493.000.
Ahn, Yong Kee; Cupples, Barrett L.; and Murphy, Clarence R., to Gulf Research & Development Company. Esterification of organic halides with reduced olefin production. 3,686,286, 8-22-72, Cl. 260-493.000.
Aho, Edwin, to Federal-Mogul Corporation. Bearing retainer construction. 3,640,594, 2-8-72, Cl. 308-212.
Ahrens, Gerhard W. Nonhygroscopic non-sugarbase noncariogenic-vitamin C releasable base material for use in the preparation of suckable tablets, lozenges and chocolate. 3,697,641, 10-10-72, Cl. 424-38.000.
Ahrens, Guenter: *See*—
Spinner, Georg; Luehring, Juergen; and Ahrens, Guenter, 3,654,577.
Ahrens, Robert H.; Bartlett, John A.; Roberts, James S.; Schipper, Pieter W.; and Mills, Roy, to Milwaukee Chaplet & Mfg. Company, Inc. Serial section photography of organic material. 3,649,108, 3-14-72, Cl. 352-84.
Ahrens, William J. Truck with sliding roof. 3,675,967, 7-11-72, Cl. 296-137.00b.
Ahrens, William L.: *See*—
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Ahrnholm, Par; Grune, Per-Olof; and Nygaard, Tore, to Allmanna Svenska Elektriska Aktiebolaget. Operating means for electric switching apparatus for high voltage. 3,683,142, 8-8-72, Cl. 200-148.00r.
Ahrns, Wilbur C.; Sweeney, David F.; and Dannatt, Hugh St. L., to Singer Company, The. Pawl actuator and locking mechanism for impact contact keyboard. 3,700,087, 10-24-72, Cl. 197-9.00b.
Ahrons, Richard Wilfred, to RCA Corporation. Delay line using integrated MOS circuitry. 3,676,711, 7-11-72, Cl. 307-293.000.
Ahrons, Richard Wilfred, to RCA Corporation. High gain MOS linear integrated circuit amplifier. 3,678,407, 7-18-72, Cl. 330-35.000.
Ahy, Jahangir M. Method and apparatus for preparing copies or duplicates of wide band record carriers on which signals are recorded. 3,679,842, 7-25-72, Cl. 179-100.20e.
Ahy, Jahangir Madjidi. Signal recording and/or playback apparatus. 3,643,963, 2-22-72, Cl. 274-43.
Aiani, Richard L.; and Jones, Bill T., Jr., to International Telephone and Telegraph Corporation. Constant speed vector generator utilizing a variable slope sawtooth generator. 3,643,124, 2-15-72, Cl. 315-22.
Aichenegg, Paul C.: *See*—
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Aichenegg, Paul C., to Chemagro Corporation. Phosphono thioester amidates. 3,666,842, 5-30-72, Cl. 260-957.000.
Aichenegg, Paul C., to Chemagro Corporation. Method of combatting insects, fungi or nematode using phosphono thioester amidates. 3,702,890, 11-14-72, Cl. 424-220.000.
Aichi Clock and Electric Implement Mfg. Co., Ltd.: *See*—
Inoue, Yutaka; Hotta, Tadao; and Ito, Toshihiko, 3,699,415.
Aichi Steel Works Limited: *See*—
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Aichilithic Company, The: *See*—
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Aidlin, Samuel S.; and Aidlin, Stephen H. Separator-conveyor. 3,704,780, 12-5-72, Cl. 209-73.000.
Aidlin, Stephen H.: *See*—
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Aiduck, Carl Joseph; and Mancini, Ronald Alfred, to RCA Corporation. Zero crossing point switching circuit. 3,702,941, 11-14-72, Cl. 307-133.000.
Aigner, Franz Xaver. Sterilizing apparatus. 3,632,303, 1-4-72, Cl. 21-93.
Aignesberger, Alois, to Suddeutsche Kalkstickstoff-Werke AG. Surfactant composition. 3,661,794, 5-9-72, Cl. 252-354.000.
Aignesberger, Alois; and Michaud, Horst, to Suddeutsche Kalkstickstoff-Werke AG. Aqueous sulfo modified melamine-formaldehyde resin composition containing multivalent oxides. 3,661,829, 5-9-72, Cl. 260-29.40r.
Aihara, Hiroshi: *See*—
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Aihara, Kenzo, to Ikegai Tekko Kabushiki Kaisha (Ikegai Iron Works, Ltd.). Hydrostatic bearing assembly. 3,661,432, 5-9-72, Cl. 308-9.

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Aihara, Toru, to Caterpillar Mitsubishi Ltd. Cable winder on tractor. 3,632,906, 1-4-72, Cl. 191-12.2.
Aijala, Sulo A. Torque release hand tool. 3,633,445, 1-11-72, Cl. 81-52.5.
Aijala, Sulo A., to Intricate Machine & Engineering Inc. Dry land ski training device having a pair of cantilevered arms pivotally mounted adjacent their forward ends. 3,659,842, 5-2-72, Cl. 272-57.
Aikawa, Katsuaki: *See—*
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Aiken, Howard H. Crytography. 3,657,476, 4-18-72, Cl. 178-22.
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Aikinson, James D.; Lepley, James W.; Nussbaum, Claire E.; and Stolzfus, John E. Fill pipe for silo. 3,675,796, 7-11-72, Cl. 214-17.00c.
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Ainslie, Dianne B.; and Crapsey, Arthur H., Jr., to Eastman Kodak Company. Camera format. 3,690,235, 9-12-72, Cl. 95-11.00r.
Ainslie, Norman G.; Cheroff, George; Graff, William S.; Howard, James Kent; and Ross, Rupert F., to International Business Machines Corporation. Doped electrical current-carrying conductive material. 3,695,855, 10-3-72, Cl. 29-191.600.
Ainsworth, John Desmond, to English Electric Company Limited, The. Control circuits for invertors. 3,644,820, 2-22-72, Cl. 321-52.
Ainsworth, John Desmond, to English Electric Company Limited, The. Control system for high voltage D.C. link connected between A.C. systems. 3,668,413, 6-6-72, Cl. 307-2.
Ainsworth, Richard A., to International Business Machines Corporation. Sense amplifier latch for monolithic memories. 3,668,429, 6-6-72, Cl. 307-235.000.
Ainsworth, Wm., Inc.: *See—*
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Air Balance, Inc., mesne: *See—*
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Akazawa, Hakuichi; and Washio, Shigeaki, to Taki Fertilizer Manufacturing Co., Ltd. Production of chromium-containing phosphoric acid or phosphate solution. 3,652,204, 3-28-72, Cl. 23-105.

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Ake, Nelson E.; and Kling, Harry C., to International Telephone and Telegraph Corporation. Method for sorting die. 3,698,976, 10-17-72, Cl. 156-155.000.

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Akeley, Lloyd T., to Simmonds Precision Products, Inc. Engine shut-off control system with timer buzzer tell-tale package. 3,656,101, 4-11-72, Cl. 340-53.

Akeley, Lloyd T., to Beckman Instruments, Inc. Differential pressure transducer. 3,680,387, 8-1-72, Cl. 73-398.00r.

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Aker, James E., to Standard Oil Company. Accumulator useful in molding articles of manufacture from plastic. 3,707,248, 12-26-72, Cl. 222-255.000.

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Akers, Edward G., to Borg-Warner Corporation. Self-sealing tank connector. 3,650,551, 3-21-72, Cl. 285-158.

Akers, George J., to Vermont American Corporation. Adjustable squeegee for applying synthetic fillers. 3,676,888, 7-18-72, Cl. 15-245.000.

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Akerstrom, Stig Hjalmar Johannes; Tempel, Albert; and Gullfeldt, Bengt Hjalmar. Fungicidal and bactericidal composition and method containing 3-thiocyanoindole derivatives. 3,646,210, 2-29-72, Cl. 424-274.

Akerstrom, Stig Hjalmar Johannes, to U.S. Philips Corporation. Substituted thiocyano pyrroles, fungicidal preparations containing these compounds as active ingredients and methods of using the same. 3,663,701, 5-16-72, Cl. 424-274.

Akesson, Yngve Reinhold; and Karlsson, Eve Torkel Gilbert, to Findus Produits S.A. Brussels sprout harvester. 3,658,132, 4-25-72, Cl. 171-27.

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Akeyama, Katsumi: *See*—
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Akeyama, Kenji; and Miyamoto, Norimasa, to Hitachi, Ltd. Multiple alloy ohmic contact for a semiconductor device. 3,686,698, 8-29-72, Cl. 317-234.00r.

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Akeyoshi, Kazuyuki; and Hayashi, Naonori, to Asahi Glass Co., Ltd. Process for soldering an inorganic solid oxide product. 3,694,897, 10-3-72, Cl. 29-473.100.

Akfirat, John C.; and Gardon, Robert, to Ford Motor Company. Glass tempering die construction. 3,694,182, 9-26-72, Cl. 65-288.000.

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Akgulian, Sahag C.; Haffner, Donald G.; and Heth, Sherman C., to Jacobsen Manufacturing Company. Gang lawn mower with self-sharpening means. 3,668,844, 6-13-72, Cl. 56-7.000.

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Akhmedov, Rustam Berovich; Talibdzhanov, Zakhidzhan Sadykdzhanovich; Valikhodzhaev, Asomkhodzha; and Rashidov, Faizulla Karimovich. Burner device for combustion gases. 3,664,587, 5-23-72, Cl. 239-402.5.

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Akin, Alfred A., Jr., to Bausch & Lomb Incorporated, mesne. Riflescope with multiple reticles selectively projected on a target. 3,672,782, 6-27-72, Cl. 356-251.000.

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Akiyama, Hiroyuki: *See—*
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Akiyama, Joseph S., to Lee, Raymond, Organization, Inc., The. Educational device. 3,672,072, 6-27-72, Cl. 35-31.0b.

Akiyama, Katsuhiko. Air-isolated integrated circuit devices to facilitate the connection thereof to circuit boards. 3,665,263, 5-23-72, Cl. 317-235.00r.

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Akiyama, Shinichi; and Minami, Shoichiro, to Japanese Geon Company, Ltd., The. Process for the preparation of methacrylic acid. 3,649,684, 3-14-72, Cl. 260-530.

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Akiyama, Toyomi; and Higaki, Taiji, to Kamzaki Paper Mfg. Co., Ltd. Electrostatic recording sheet and process for making the same. 3,634,135, 1-11-72, Cl. 117-221.

Akman, Ahmet Recai, to Ford Motor Company. Dual diaphragm vacuum servo. 3,659,500, 5-2-72, Cl. 92-49.

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Aktermatt, Hans, to Ciba-Geigy AG. Process for the manufacture of aminoanthraquinones. 3,700,700, 10-24-72, Cl. 260-371.000.

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Alburn, Harvey E.; and Greenspan, George, to American Home Products Corporation. Thymol as an anti-influenza agent. 3,632,782, 1-4-72, Cl. 424-346.
Alburn, Harvey E.; Dvonch, William; and Grant, Norman H., to American Home Products Corporation. 2-Parachlorophenoxy-2-methylpropionic acid-fatty acid glycerides. 3,652,609, 3-28-72, Cl. 260-408.
Alburn, Harvey E.; and Dvonch, William, to American Home Products Corporation. Aminocyclopentanecarboxylic acid derivatives. 3,655,725, 4-11-72, Cl. 260-468.
Alburn, Harvey E.; Clark, Donald E.; Grant, Norman H.; and Lapidus, Milton, to American Home Products Corporation. Hydroxamic acid derivatives of 1-aminocyclohexanecarboxylic acid. 3,703,542, 11-21-72, Cl. 260-500.50h.
Alburn, Harvey E.; Clark, Donald E.; Grant, Norman H.; and Lapidus, Milton, to American Home Products Corporation. Hydroxamic acids of alicyclic amono acids. 3,703,543, 11-21-72, Cl. 260-500.50h.
Albus, Peter, to Siemens Aktiengesellschaft. Method of producing a high-frequency silicon transistor. 3,634,133, 1-11-72, Cl. 148-187.
Albus, Peter, to Siemens Aktiengesellschaft. Planar technique for producing semiconductor microcomponents. 3,676,126, 7-11-72, Cl. 96-36.200.
Alcala, Frank. Vacuum and pressure pick up device for home and commercial vacuum cleaners. 3,694,848, 10-3-72, Cl. 15-346.000.
Alcan Aluminum Corporation: *See—*
Englund, James A.; and Popek, Stephen, 3,678,641.
Alcan Research and Development Limited: *See—*
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Alcenius, James E., to Aeroquip Corporation. Vertical brazing system. 3,667,109, 6-6-72, Cl. 29-490.000.
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De Long, Charles, Jr.; and Newell, Stephen D., 3,647,139.
Moreau, Glenn T.; and Bielefeldt, Irvin P., 3,673,678.
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Alcocer, Francisco O. Combination blackboard chalk and eraser. 3,656,201, 4-18-72, Cl. 15-118.
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Alcock, David Gerald; Brown, John Colin; Piccotti, Enzo; and Iungius, Vorman John, to Ilford Limited. Bleach fix additives. 3,702,248, 11-7-72, Cl. 96-22.000.
Alcock, John Forster, to Ricardo & Co. Engineers (1927) Limited. Lubrication of bearings of reciprocating engines or pumps. 3,656,582, 4-18-72, Cl. 184-6.5.
Alcock, Richard A., to Fastener Engineers, Inc. Wire drawing apparatus and method. 3,646,798, 3-7-72, Cl. 72-289.
Alcock, Richard A.; Guthrie, Robert M.; and Johnston, Robert B., to Fastener Engineers, Inc. Wire drawing and feeding apparatus. 3,654,784, 4-11-72, Cl. 72-5.
Alcor Chemical Company, Inc.: *See—*
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Alda, Harold: *See—*
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Aldana, Roberto: *See—*
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Alday, James M., to Remington Arms Company, Inc. Firearm receiver mechanism with a roller detent pin for a telescopic breech-bolt. 3,653,140, 4-4-72, Cl. 42-16.
Alday, James M., to Remington Arms Company, Inc. Accelerating gas system for gas-operated firearms. 3,707,110, 12-26-72, Cl. 89-193.000.
Alden, John R.; and Aker, John L., to King Radio Corporation. Search-track decision circuit for distance measuring equipment. 3,702,475, 11-7-72, Cl. 343-7.300.
Alden, Milton, to Alden Research Foundation. Electrical recorder utilizing a chemically-treated web. 3,638,237, 1-25-72, Cl. 346-145.
Alden, Milton, to Alden Research Foundation. Paper cutter. 3,675,523, 7-11-72, Cl. 83-167.000.
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Alder, Hanspeter, to Du Pont de Nemours, E. I., and Company. Process for preparing copper sulfide voltaic cell cathodes. 3,674,560, 7-4-72, Cl. 136-23.000.
Alder, Ralph M., to Adler Process Corporation. Apparatus for production of pile carpeting. 3,655,490, 4-11-72, Cl. 156-435.
Alderfer, Sterling W., to Teledyne, Inc., mesne. Method for making industrial rolls. 3,666,589, 5-30-72, Cl. 156-172.000.
Alderfer, Sterling W., to Industrial Heights, Inc. Pneumatic tire having helical reinforcing filaments. 3,682,222, 8-8-72, Cl. 152-361.000.
Alderfer, Sterling W., to Steelastic Company, The. Apparatus for producing helically formed filaments. 3,700,012, 10-24-72, Cl. 140-149.000.
Alderman, John F.: *See—*
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Alderson, William T. Fluid energy machine. 3,671,146, 6-20-72, Cl. 417-243.000.
Alderton, Brian, to Scolar Press Limited, The. Means for photographically copying book pages. 3,635,557, 1-18-72, Cl. 355-65.
Alderton, Howard Kenneth, to Cam Gears Limited. Braking systems. 3,695,733, 10-3-72, Cl. 303-21.00a.
Alderuccio, Carmelo Leon, to Alderuccio, Lee, & Associates, Inc. Chemical etching solution for printed wiring boards. 3,677,950, 7-18-72, Cl. 252-79.500.
Alderuccio, Lee, & Associates, Inc.: *See—*
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Aldi, Angelo J. Aircraft rotor blade mechanism. 3,693,910, 9-26-72, Cl. 244-7.00a.
Aldo, Bruce D.: *See—*
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Edington, Robert Alexander; and Aldred, Derek Harry, 3,660,202.
Aldred, Edward John, to Ransomes Sims & Jefferies Limited. Flail mower. 3,645,076, 2-29-72, Cl. 56-294.
Aldrich, Billy R.; Cooper, Charles R.; and Rasquin, John R., to United States of America, National Aeronautics and Space Administration. Underwater space suit pressure control regulator. 3,636,966, 1-25-72, Cl. 137-81.
Aldrich Chemical Company, Inc.: *See—*
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Li, Jorge Pengman; and Biel, John Hans, 3,702,327.
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Aldrich, Paul E., to Du Pont de Nemours, E. I., and Company. 5-Aryloxatricyclo[3.2.2.0^{2,4}]nonane-1-amines. 3,646,070, 2-29-72, Cl. 260-348.
Aldrich, Paul E., to Du Pont de Nemours, E. I., and Company. 5-Aryloxatricyclo[3.2.2.0, ^{2,4}positions and methods. 3,657,439, 4-18-72, Cl. 424-263.
Aldrich, Paul H.; Bartell, Don G.; and Espy, Herbert H., to Hercules Incorporated. Aqueous formulation of water soluble cationic or anionic vinyl addition polymers with water soluble condensation polyamides. 3,686,109, 8-22-72, Cl. 260-29.6nr.
Aldrich, Ralph Edward: *See—*
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Aldrich, William E., to Warmaco Inc. Method of simultaneously boarding and setting knitted hosiery. 3,705,066, 12-5-72, Cl. 156-148.000.
Aldridge, Anthony Peter, to Simon-Carves Limited. Treatment of biological sludge. 3,650,403, 3-21-72, Cl. 210-180.
Aldridge, Clyde L.; and Buben, David, to Esso Research and Engineering Company. Production of methane rich gases. 3,689,240, 9-5-72, Cl. 48-202.000.
Aldridge, David Cecil; Broadbent, Douglas; Hemming, Harold George; Turner, William Brian; and Bent, Keith Joseph, to Imperial Chemical Industries Limited. Antifungal benzopyran-5-one derivative. 3,661,935, 5-9-72, Cl. 260-343.2.
Aldridge, Gerald Richard; Ehrich, Felix Frederick; and Struve, William Scott, to Du Pont de Nemours, E. I., and Company. Preparation of dihydrotherephthalates. 3,674,814, 7-4-72, Cl. 260-396.00n.
Aldridge, Gerald T. Apparatus for proportioning and mixing particulate materials. 3,679,101, 7-25-72, Cl. 222-136.000.
Aldropp, Archie: *See—*
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Aldropp, Art; and Aldropp, Archie. Foldable retractable step assembly for campers and like vehicles. 3,645,557, 2-29-72, Cl. 280-166.
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Aleckner, John F., Jr., to Union Carbide Corporation. Adhesion of coatings to ethylene-polar monomer copolymer. 3,637,428, 1-25-72, Cl. 117-138.8.
Aleckner, John F., Jr., to Union Carbide Corporation. Coated ethylene-polar monomer copolymer substrate. 3,697,311, 10-10-72, Cl. 117-72.000.
Alekna, Alvin J., to General Electric Company. Lead compound catalyzed siloxane resin system. 3,666,830, 5-30-72, Cl. 260-825.000.
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Aleks, Vytant, to Brearley Company, The. Adjustable shelf and cabinet structure. 3,640,498, 2-8-72, Cl. 248-230.
Alen, Michael George; and Beebe, George W., to Minnesota Mining and Manufacturing Company. Bis(perfluoroalkylsuefonyl)methanes in cationic polymerization. 3,632,843, 1-4-72, Cl. 260-2.
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Vail, Evelyn W.; and Popik, John, 3,660,811.
Alert, Jerry George; and Mauldin, Robert Daniel, to Formica Corporation. Decorative laminates carrying removable protective coating. 3,637,408, 1-25-72, Cl. 117-6.
Alessi, Frank A. Device for measuring the amount of fluid in bottles. 3,672,061, 6-27-72, Cl. 33-169.00r.
Alessi, Patrick A.; and Jansky, Joel W., to Advanced Instruments, Inc. Article treating apparatus. 3,650,038, 3-21-72, Cl. 34-45.
Alessi, Samuel P.; and Daneck, David A., to Borg-Warner Corporation. Medical traction device. 3,683,900, 8-15-72, Cl. 128-75.000.
Alessio, Ralph D., to Tele-Conn Enterprises, Inc. Metronome. 3,691,896, 9-19-72, Cl. 84-484.000.
Alessio, Sergio A.; Chow, Weichien; and Kosem, Marion, to Bunker-Ramo Corporation, The. Combined component and interconnection module and method of making. 3,703,033, 11-21-72, Cl. 29-624.000.
Aletti, Renato. Continuous mixer. 3,661,363, 5-9-72, Cl. 259-7.
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Alexander, Alex G., to Commonwealth of Puerto Rico, The. Method of inhibiting the inversion of sucrose in sugar cane juice. 3,698,950, 10-17-72, Cl. 127-46.00r.
Alexander, Alexander W. Sensor responsive to liquid level. 3,685,357, 8-22-72, Cl. 73-313.000.
Alexander, Allen D.: *See—*
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Alexander, Arthur W.; and Renner, Glen R., to General Motors Corporation. Generator voltage regulator with detachable resistance unit in the voltage reference circuit. 3,659,188, 4-25-72, Cl. 322-28.
Alexander, Ben H.: *See—*
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Alexander, Carl J., to Wells Manufacturing Corporation. Self-adjusting roller guide. 3,643,536, 2-22-72, Cl. 83-201.15.
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Alexander, David Lee: *See—*
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Alexander, Delbert S., Jr., to State National Bank. Automatic electric baseball game. 3,655,189, 4-11-72, Cl. 273-88.
Alexander, Donald E., to Carrier Corporation. Supporting insulator for electrical heating elements. 3,668,303, 6-6-72, Cl. 174-138.

Alexander, Donald K., to Koehring-Waterous Ltd., Norton Company of Canada, Great Lakes Paper Company, Limited, The, Montague Machine Company and Norton Company. Wood grinding. 3,690,568, 9-12-72, Cl. 241-15.000.
Alexander, Ernest John; and Mooradian, Aram, to Sterling Drug Inc. 9-Aroyl-1,2,3,4-tetrahydro-carbozole-3,3-dicarboxylic acids. 3,687,969, 8-29-72, Cl. 260-315.000.
Alexander, Everett E.: *See—*
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Alexander, George F., to Caterpillar Tractor Company. Accumulator recoil cylinder with oil film applicator. 3,692,368, 9-19-72, Cl. 305-10.000.
Alexander, George F.; Kessinger, Orville E., Jr.; Rediger, John R.; and Reinsma, Harold L., to Caterpillar Tractor Company. Resilient mounting for track rollers. 3,695,737, 10-3-72, Cl. 305-27.000.
Alexander, Gilbert L.; Neaville, Arthur W.; and Mayfield, William A. Automatic drive-in store. 3,647,026, 3-7-72, Cl. 186-1.
Alexander, Granison T., Jr., to Gem Oil Tool Company. Blow-up preventer. 3,669,187, 6-13-72, Cl. 166-217.000.
Alexander, Jack F., to Computer Terminal Corporation. Deflection compensation system. 3,706,905, 12-19-72, Cl. 315-21.0ch.
Alexander, Jack S.: *See—*
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Alexander, James; and Higgins, Lester A., to Scandia Packaging Machinery Company. Apparatus for detecting and preventing irregular conditions in article handling machine. 3,688,467, 9-5-72, Cl. 53-77.000.
Alexander, James M., to Stillwell-Gerard Construction Co. Post implan.ng method and vehicular apparatus therefor. 3,696,625, 10-10-72, Cl. 61-53.500.
Alexander, James M., Jr.: *See—*
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Alexander, John A., to TRW Inc. Method of making composites and products produced thereby shaped composites of refractory embedded in a metal matrix. 3,649,425, 3-14-72, Cl. 161-43.
Alexander, John William, to Kewanee Oil Company. Removal of hydrocoumaric acid from acid nickel plating baths containing coumarin. 3,707,447, 12-26-72, Cl. 204-49.000.
Alexander, Kenneth W., Jr. Uni-runner recreation device. 3,695,626, 10-3-72, Cl. 280-12.00k.
Alexander, L. Bruce: *See—*
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Alexander, Martin J., to Admiral Coated Products, Inc. Method and apparatus for adhering foil to a surface. 3,654,016, 4-4-72, Cl. 156-247.
Alexander, Milton; Garrett, John W.; and Riepenhoff, Ralph R., to United States of America, Air Force. Pilot armreach and cockpit control locator machine. 3,693,265, 9-26-72, Cl. 35-12.00f.
Alexander, Newton C.; Stark, Herbert; and Thornton, Richard C., to Northrop Corporation. Attitude readout for floated inertial platform. 3,670,585, 6-20-72, Cl. 74-5.600.
Alexander, Norman E.: *See—*
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Alexander, Richard L.: *See—*
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Alexander, Roy P.; and Schroeder, Hans Juergen A., to Olin Mathieson Chemical Corporation. Chloro-phosphine-m-carborone and a method of making them. 3,637,836, 1-25-72, Cl. 260-543.
Alexander, Stephen H., to Monsanto Company. Corrugated board constructions. 3,649,432, 3-14-72, Cl. 161-137.
Alexander, Stuart John: *See—*
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Alexander, William. System for measuring fluid flow. 3,681,983, 8-8-72, Cl. 73-186.000.
Alexander, Willis; and Shaltis, Robert J., said Alexander assor. to Mack Trucks, Inc. and said Shaltis assor. to Hastings Manufacturing Company. Liquid coolant conditioner. 3,645,402, 2-29-72, Cl. 210-266.
Alexandre, Philippe, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). Automatic constant downstream level gate. 3,643,443, 2-22-72, Cl. 61-22.
Alexandre, Philippe. Constant downstream level gate. 3,683,630, 8-15-72, Cl. 61-25.000.
Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Ilia Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, to Spetsialnoe Konstruktorskoe Bjuro Transneftavtomatika. Loading and unloading station of plant for the pneumatic transportation of goods in containers along a tbe. 3,689,010, 9-5-72, Cl. 243-38.000.
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Alexeff, Alexander V., to Alexeff-Snyder Enterprises, Inc. Web guiding and spreading apparatus. 3,637,121, 1-25-72, Cl. 226-17.
Alexeff, Alexander V.; and Snyder, Harvey, to Alexeff-Snyder Enterprises, Inc. Web guiding and expanding apparatus. 3,650,000, 3-21-72, Cl. 26-65.
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Aley, Albert H., to GTE Sylvania Incorporated. Memory drive circuit. 3,662,191, 5-9-72, Cl. 307-270.000.
Alf, Fritz; and Brill, Wolfgang, to Varta GmbH. Electric primary element and method of manufacturing the same. 3,657,019, 4-18-72, Cl. 136-133.
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Alfano, Marco, to Silma. Cinematographic apparatus. 3,675,873, 7-11-72, Cl. 242-192.000.
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Alfieri, Giulio, to Officine Alfieri Maserati. Internal combustion engines with at least two rows of cylinders with overhead camshafts. 3,673,990, 7-4-72, Cl. 123-52.00r.
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Alford, Andrew. Isolating antenna elements. 3,681,770, 8-1-72, Cl. 343-815.000.
Alford, Glen M. Artist's carrying case and easel. 3,669,227, 6-13-72, Cl. 190-11.000.
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Alfredsson, Alf Ingvar, to Hasselblad, Fritz Victor. Control device for viewfinder mirror mechanism of single-lens reflex cameras. 3,645,184, 2-29-72, Cl. 85-42.
Alfredsson, Alf Ingvar; and Dahlgren, Lennart Gunnar Oskar, to Hasselblad, Fritz Victor. Means for guiding the shutter in a camera equipped with a focal plane shutter and possibly also a central shutter. 3,648,588, 3-14-72, Cl. 95-53.
Alfredsson, Alf Ingvar, to Hasselblad, Fritz Victor. Viewfinder mirror mechanism for single-lens reflex cameras. 3,698,305, 10-17-72, Cl. 95-42.000.
Alfredsson, Stig Allan Junior, to Sandvikens Jernverks Aktiebolag. Conveyor belt system. 3,666,080, 5-30-72, Cl. 198-38.
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Alphin, John G.; and Fitner, John B., to Clemson University. Tobacco harvesters. 3,695,014, 10-3-72, Cl. 56-27.500.
Alphonse, Gerard Argant, to RCA Corporation. Sonic page composer for holographic memory. 3,698,794, 10-17-72, Cl. 350-161.000.
Alpine, Albert Earl, to Certain-Teed Products Corporation. Branch pipe fitting for fluid pressure pipe line. 3,638,972, 2-1-72, Cl. 285-156.
Alpine Chemische Aktiengesellschaft: *See—*
Hrach, Josef; and Wimmer, Theodor, 3,651,016.
Alps Electric Co., Ltd.: *See—*
Iwasaki, Sadayoshi, 3,694,602.
Kasazima, Masao, 3,701,963.
Komatsu, Hiroaki, 3,662,313.
Manabe, Noboru, 3,646,300.
Nomura, Yukihiko, 3,668,597.
Nomura, Yukihiko, 3,676,827.
Ohkita, Masao, 3,681,555.
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Alpura AG: *See—*
Loliger, Willi; and Schmied, Rudolf, 3,692,468.
Alquist, Henry E.: *See—*
Hitzman, Donald O.; and Alquist, Henry E., 3,642,578.
Alric, Andre A. L.; Porte, Gilbert R. A.; Glotin, Joseph M. H.; Higounenq, Francis J.; and Boussin, Serge P., to Societe Nationale Industrielle Aerospatiale. Floating battery charging network. 3,703,675, 11-21-72, Cl. 320-31.000.
Alroy, John D. Stackable members. 3,701,456, 10-31-72, Cl. 220-97.00c.
Alsberg, Dietrich Anselm, to Bell Telephone Laboratories, Incorporated. Waveguide expansion joint. 3,660,788, 5-2-72, Cl. 333-98.
Alsberg, Dietrich Anselm, to Bell Telephone Laboratories, Incorporated. Spurious mode suppressing waveguide. 3,678,420, 7-18-72, Cl. 333-95.00r.
Alsberg, Henry, to Richardson, Company, The. Non-crazing, biaxially oriented styrene-methyl methacrylate copolymer sheets. 3,697,494, 10-10-72, Cl. 260-86.700.
Alsch, Richard E., to Graham Transmissions, Inc. Flexible drive coupling. 3,668,892, 6-13-72, Cl. 64-14.000.
Alsco, Inc.: *See—*
Nash, John J., 3,670,621.
Alsefelt, Per-Erik Ingemar: *See—*
Brannland, Rolf August; Alsefelt, Per-Erik Ingemar; and Gyllensten, Hans Otto, 3,654,071.
Alsop, Arthur Graham, to Strachan and Henshaw Limited. Stitching machine. 3,653,570, 4-4-72, Cl. 227-81.
Alsop, Ranulph Michael; and Bremner, Ian, to Fisons Pharmaceuticals Limited. Pharmaceutical compositions containing ferric hydroxide complexed with dextran or dextrin heptonic acids. 3,639,588, 2-1-72, Cl. 424-180.
Alstad, John K.; Armitage, John D., Jr.; and Bate, Geoffrey, to International Business Machines Corporation. Magneto-optic transducer. 3,665,431, 5-23-72, Cl. 340-174.1mo.
Alster, Ralph. Unitary modular shelving structure. 3,661,434, 5-9-72, Cl. 312-111.
Alsthom-Savoisienne: *See—*
Laser, Georges; and Bornet, Daniel, 3,656,077.
Vayson De Pradenne, Henri, 3,692,207.
Alston, Leslie W. L. Drawers for furniture. 3,687,512, 8-29-72, Cl. 312-330.000.
Alsu Development Corporation: *See—*
Suchowski, Bernard, 3,704,542.
Alsup, Michael J.; and Guevara, Alfredo R., to Eastman Kodak Company. Process for preparing high-relief printing plates. 3,647,446, 3-7-72, Cl. 96-35.1.
Alsup, Michael J.; and Guevara, Alfredo Ruben, to Eastman Kodak Company. Processes and elements for preparation of photomechanical images. 3,703,373, 11-21-72, Cl. 96-35.000.
Alt, Anton, to Fischer, Georg, Aktiengesellschaft. Method for the introduction of volatile additives into a melt. 3,666,449, 5-30-72, Cl. 75-130.
Alt, Bernhard: *See—*
Eimers, Erich; Deninger, Wolfgang; and Alt, Bernhard, 3,641,203.
Alt, Gerhard H., to Monsanto Company. Method of combatting chewing insect larvae species of the order lepidoptera using N,N'-dicyclopropyl dithiooxamide. 3,639,627, 2-1-72, Cl. 424-320.
Alt, Gerhard H., to Monsanto Company. N,N'-dicyclopropyl dithiooxamide. 3,658,900, 4-25-72, Cl. 260-551.
Alt, Gerhard H., to Monsanto Company. Inhibiting the growth of plants with substituted indole derivatives. 3,671,214, 6-20-72, Cl. 71-95.000.
Alt, Gerhard H., to Monsanto Company. Phytotoxic compositions. 3,674,459, 7-4-72, Cl. 71-18.000.
Alt, Gerhard H., to Monsanto Company. N-(3-Halo-5,5 dialkylcyclohex-2-en-1-ylidene) morpholinium tetraphenyl borates. 3,699,101, 10-17-72, Cl. 260-247.000.
Alt, Werner: *See—*
Henning, Herbert; Alt, Werner; and Reiter, Paul, 3,643,931.
Alta, Dirk; and Doornbos, Derk Dille. Container of the throw-away type provided with a draining device. 3,692,213, 9-19-72, Cl. 222-105.000.
Alta Industries, Incorporated: *See—*
Ropiequet, Richard L.; and Montag, Margaret J., 3,654,017.
Altau, Karl, to Du Pont de Nemours, E. I., and Company. Coated synthetic organic polymer fiber. 3,700,491, 10-24-72, Cl. 117-138.8ua.
Altec, Inc.: *See—*
Castleberry, Joseph C., 3,676,017.
Altemose, Harvey W.: *See—*
Slawek, Joseph E., Jr.; and Altemose, Harvey W., 3,704,375.
Altemus, William C., to Computer Image Corporation. Beam intensity compensator. 3,688,028, 8-29-72, Cl. 178-6.800.
Alten, Kurt. Sealing device for openings in buildings. 3,683,572, 8-15-72, Cl. 52-173.000.
Altenburger, Otto: *See—*
Neumeier, Gunter F.; and Altenburger, Otto, 3,699,263.
Altenburger, Otto, to Stromberg-Carlson Corporation. Ringing control circuit. 3,671,678, 6-20-72, Cl. 179-18.0hb.
Altenburger, Otto, to Stromberg-Carlson Corporation. Line lockout circuit. 3,699,265, 10-17-72, Cl. 179-19.000.
Altenburger, Otto, to Stromberg-Carlson Corporation. Passive junctor circuit and selectively associated junctor control. 3,705,268, 12-5-72, Cl. 179-18.00e.
Altenpohl, Paul J.: *See—*
Altenpohl, William F.; and Altenpohl, Paul J., 3,643,790.
Altenpohl, William F.; and Altenpohl, Paul J., 3,680,693.
Altenpohl, Paul J., to Altenpohl, W. F., Inc. Modular weight sorting assembly for conveyors. 3,642,130, 2-15-72, Cl. 209-121.
Altenpohl, W. F., Inc.: *See—*
Altenpohl, Paul J., 3,642,130.
Altenpohl, William F.; and Altenpohl, Paul J. Non-jam lead-on track for conveyor systems. 3,643,790, 2-22-72, Cl. 198-177.
Altenpohl, William F.; and Altenpohl, Paul J. Fluid control system for selector scales. 3,680,693, 8-1-72, Cl. 209-75.000.
Altenschopfer, Theodor: *See—*
Schnegelberger, Harald; and Altenschopfer, Theodor, 3,679,589.
Altenstadt, Helmut Schmidt Auf, to Vaillant, Joh., KG. Vacuum evaporation type water heater. 3,661,325, 5-9-72, Cl. 237-8.00r.
Altenstaedter, Georg, 1/2 to Lewis, Terry. Apparatus for the vibratory finishing of workpieces. 3,662,496, 5-16-72, Cl. 51-7.
Alter, Albert R. Breathing activity monitoring and alarm device. 3,658,052, 4-25-72, Cl. 128-2.
Alter, Henry L.: *See—*
Ingulli, Alfred F.; and Alter, Henry L., 3,636,140.
Alter, Henry Ward; and Price, Paul B., to General Electric Company. Radon detection. 3,665,194, 5-23-72, Cl. 250-83.
Alter, Hobart L., to Coast Catamaran Corporation. Jib sheet apparatus for sailboats. 3,678,876, 7-25-72, Cl. 114-102.000.
Alter, Vladimir Fedorovich: *See—*
Pokhodnya, Igor Konstantinovich; Alter, Vladimir Fedorovich; Kaplienko, Igor Prokofievich; Suprun, Sergei Alexandrovich; Suptel, Alexandr Mikhailovich; Shlepakov, Mikhailovich; and Shlepakov, Valery Nikolaevich, 3,688,376.
Altermatt, Hans, to Ciba Limited. Vat dyestuffs. 3,639,430, 2-1-72, Cl. 260-368.
Altermatt, Rudolf; Entschel, Roland; and Mueller, Curt, to Sandoz Ltd. Basic anthraquinone dyes, with pyridinium 2- or 4-dimethylene groups. 3,671,529, 6-20-72, Cl. 260-294.80b.
Altermatt, Ruedi, to Sandoz Ltd.; a/k/a Sandoz A.G. Nitro dyestuffs. 3,637,669, 1-25-72, Cl. 260-239.6.
Alters, Max F.: *See—*
Thompson, Elbert Gordon; and Alters, Max F., 3,638,326.
Alterton, Lloyd E.: *See—*
Vassiliadis, Arthur; Zweng, Harold C.; Peppers, Norman A.; and Alterton, Lloyd E., 3,703,176.
Alth, Max. Single-phase motors. 3,670,191, 6-13-72, Cl. 310-163.000.
Alth, Max. Self-starting synchronous motors. 3,700,942, 10-24-72, Cl. 310-164.000.
Althaus, Ernst, to Orenstein & Koppel Aktiengesellschaft. Hydraulic chain tensioning device, especially for track laying vehicles. 3,647,270, 3-7-72, Cl. 305-10.
Altherr, Russell G.; Shramovich, Paul F.; and Metzger, Nelson D., to Amsted Industries Incorporated. Internally reinforced shank for a railway coupler. 3,640,402, 2-8-72, Cl. 213-62.
Altherr, Russell George, to Amsted Industries Incorporated. Modified pin hole for railway couplers. 3,635,357, 1-18-72, Cl. 213-64.
Altherr, Russell George, to Amsted Industries Incorporated. Coupler arrangement. 3,635,358, 1-18-72, Cl. 213-69.
Althoff, Heinz, to Eisenwerk Weserhutte A.G. Walking mechanism for moving heavy loads. 3,638,747, 2-1-72, Cl. 180-8.

Althouse, Victor E., to Raychem Corporation. Heat recoverable article. 3,639,917, 2-8-72, Cl. 2-270.
Althouse, Victor E., to Raychem Corporation. Method and means of die matrix expansion. 3,677,875, 7-18-72, Cl. 161-117.000.
Althuizen, Nicolaas A.: *See—*
Hall, George Thomas William; Van Ijzerloo, Jan Hendrik Sebastiaan; and Althuizen, Nicolaas A., 3,631,753.
Altier, Anthony L. Archery bow string release tab and draw limiting device. 3,665,911, 5-30-72, Cl. 124-24.
Altieri, Vincent F.; and Tillotson, James E., to Ocean Spray Cranberries, Inc. Canned apple gel and method of preparing same. 3,692,541, 9-19-72, Cl. 99-132.000.
Altman, Daniel E.: *See—*
Geller, Myer; Altman, Daniel E.; De Temple, Thomas A.; and Taylor, Henry F., 3,654,626.
Altman, Daniel E., to United States of America, Navy. Method for determining a ship's heading employing an electro-optical angle measuring device. 3,669,548, 6-13-72, Cl. 356-141.000.
Altman, David: *See—*
Altman, Murray; Altman, David; and Altman, Seymour E., 3,655,135.
Altman, Murray; Craig, Mordecai R.; and Block, Irwin H., to Purdue Frederick Company, The. Display device. 3,640,010, 2-8-72, Cl. 40-124.1.
Altman, Murray; Altman, David; and Altman, Seymour E., to Thermasol, Ltd. Steam outlet head with a dispenser for a fragrance or medicant. 3,655,135, 4-11-72, Cl. 239-310.
Altman, Seymour E.: *See—*
Altman, Murray; Altman, David; and Altman, Seymour E., 3,655,135.
Altmann, Conrad: *See—*
Drexler, Rodger A.; and Altmann, Conrad, 3,703,395.
Altmann, Conrad, to Eastman Kodak Company. Apparatus for making two-sided copies from two images on an original. 3,672,765, 6-27-72, Cl. 355-24.000.
Altmann, Conrad, to Eastman Kodak Company. Image development station. 3,702,108, 11-7-72, Cl. 118-637.000.
Altmanshofer, Robert Dale: *See—*
Kirkwood, Loren Robert; Cochran, Larry Allen; and Altmanshofer, Robert Dale, 3,701,842.
Altmeppen, Johannes, to Westinghouse Bremsen- und Apparatebau GmbH. Brake control apparatus. 3,666,325, 5-30-72, Cl. 303-10.
Altmiller, John C.: *See—*
Cohen, Edwin; and Altmiller, John C., 3,699,244.
Altner, Wilhelm: *See—*
Liebsch, Dietrich; and Altner, Wilhelm, 3,645,979.
Alto Corporation: *See—*
Maude, Stanley Morgan, 3,700,129.
Alton, Ahdor H.; and Kohn, Mitchell I., to Gulton Industries, Inc. Signal level responsive circuit. 3,648,183, 3-7-72, Cl. 328-196.
Alton Box Board Company: *See—*
Hayes, William H., 3,635,361.
Le Blanc, John R., 3,682,762.
Reisman, Abraham J.; and Wilkinson, Thomas B., III, 3,687,767.
Reisman, Abraham J.; and Wilkinson, Thomas B., III, 3,697,365.
Alton, Thomas W., to Pak-Well Corporation. Fan-fold envelope assembly. 3,633,816, 1-11-72, Cl. 229-69.
Altonen, Wilhart Niilo, Jr.; and Auer, Fred Vincent, to Motorola, Inc. Shorting device. 3,638,071, 1-25-72, Cl. 317-2.
Altounyan, Roger Edward, to Fisons Pharmaceuticals Limited. Compositions for treating asthma comprising bis-chromonyl compounds and method of employing same. 3,671,625, 6-20-72, Cl. 424-45.000.
Altounyan, Roger Edward Collingwood; Howell, Harry; and Rowlands, Martyn Omar, to Fisons Pharmaceuticals Limited. Inhalation device. 3,635,219, 1-18-72, Cl. 128-266.
Altounyan, Roger Edward Collingwood; and Howell, Harry; deceased (by Howell, Eunice Cockburn; executrix), to Fisons, Limited. Inhalation device. 3,669,113, 6-13-72, Cl. 128-266.
Altrui, Thomas N. D. Demountable contilever storage racks. 3,698,566, 10-17-72, Cl. 211-176.000.
Altshuler, Saul: *See—*
Hansen, David O.; Altshuler, Saul; Bernstein, William; and Hamermesh, Bernard, 3,679,897.
Altwicker, Elmar R.: *See—*
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Aluma-Form, Inc.: *See—*
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Alumet Corporation, The, mesne: *See—*
Rheingold, Lawrence M.; and Berlin, Milton, 3,654,023.
Alumina Ferrite Corporation of America: *See—*
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Aluminium Delfzijl N.V.: *See—*
Arts, Mathieu Gerardus Henricus; Lucker, Jan Anna Antonius; and Groenenboom, Maarten, 3,674,674.
Aluminium Suisse SA, mesne: *See—*
Picq, Patrice, 3,680,279.
Aluminum Company of America: *See—*
Bolt, Alfred V.; and Wood, James S., 3,633,540.
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Brondyke, Kenneth J.; and Hess, Paul D., 3,649,247.
Brondyke, Kenneth J., 3,695,919.
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Brown, Robert H.; Anderson, William A.; and King, William, 3,674,448.
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Hoch, Fred R.; and McIntee, James W., 3,693,238.
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La Barge, Robert L., 3,686,795.
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Aluminum Company of America, mesne: *See—*
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Aluminum Converter Sales & Research, Inc.: *See—*
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Aluminum Specialty Company: *See—*
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Aluotto, Antonio; d/b/a National Baling Press and Equipment Co.: *See—*
Aluotto, Dominick M., 3,643,590.
Aluotto, Dominick M., to Aluotto, Antonio; d/b/a National Baling Press and Equipment Co. Vertical-horizontal baling press. 3,643,590, 2-22-72, Cl. 100-53.
Aluterv Aluminiumipari Tervezo Vallalat: *See—*
Toth, Mihaly; and Imreffi, Jozsef, 3,663,419.
Alvarez, Bernard V. Poison bait station for small bugs or the like. 3,704,539, 12-5-72, Cl. 43-131.000.
Alvarez, Francisco, to Syntex Corporation. Preparation of 9,11-dichloro steroids. 3,642,780, 2-15-72, Cl. 260-239.55.
Alvarez, Francisco, to Syntex Corporation. Di-(6-methoxy-2-naphthyl)zinic and 6-methoxy-2-naphthylzinic halide. 3,663,584, 5-16-72, Cl. 260-429.9.
Alvarez, Francisco, to Syntex Corporation. (6-Methoxy-2-napthyl) cadmium halide. 3,694,476, 9-26-72, Cl. 260-429.00r.
Alvarez, Francisco Godia. Treatment and exercise apparatus applying tension to the backbone of a user and body massage. 3,685,511, 8-22-72, Cl. 128-57.000.
Alvarez, Francisco S., to Syntex Corporation. 2-(6'-Methoxynaphth-2'-yl) propylene oxide and 5-'halo derivatives. 3,637,767, 1-25-72, Cl. 260-348.
Alvarez, Luis W.; Derenzo, Stephen E.; Muller, Richard A.; Smits, Robert G.; and Zaklad, Haim, to United States of America, Atomic Energy Commission. Subatomic particle detector with liquid electron multiplication medium. 3,659,105, 4-25-72, Cl. 250-83.6.
Alvey Inc.: *See—*
Werntz, Charles W., 3,643,788.
Werntz, Charles W., 3,643,789.

Alvi, Zia R.; Heslop, Victor L., and Summerlin, Frederick A., to Aerpat A.G. Multi-stage forming machine. 3,695,088, 10-3-72, Cl. 72-405.000.

Alvic Development Corporation, mesne: *See—*
Tylius, Adolfo, 3,656,266.

Alwan, Abdul Sahib; and Ruscetta, Ralph Antonio, to General Electric Company. Process of forming aluminum foil. 3,666,642, 5-30-72, Cl. 204-141.000.

Alwin Manufacturing Company, Inc.: *See—*
Dashnier, Merwin J.; and Diring, James A., 3,707,251.
Krueger, Archie S.; and Slye, Norman J., 3,672,552.

Alwitt, Robert S.; and Santway, Robert W., to Sprague Electric Company. Electrolytic capacitor having an electrode with a metallized cracked oxide surface. 3,697,822, 10-10-72, Cl. 317-230.000.

Alyea, Jerrold M., to Olin Corporation. Strand annealing composite metals. 3,632,457, 1-4-72, Cl. 148-127.

Alza Corporation: *See—*
Higuchi, Takeru; and Hussain, Anwar, 3,676,549.
Pharriss, Bruce B.; and Anliker, Max, 3,675,647.
Pharriss, Bruce B.; and Anliker, Max, 3,675,648.
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Amada Co., Limited: *See—*
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Hayakawa, Masahiro, 3,680,339.

Amadon, Roger M.; and Boren, Morris G., to Pet Incorporated. Process for preparing folded food chips. 3,690,895, 9-12-72, Cl. 99-80.00r.

Amagi, Yasuo; Ohya, Masaki; Shiiki, Zenya; and Yusa, Haruhiko, to Kureha Kagaku Kogyo Kabushiki Kaisha. Cross-linked graft copolymer of styrene and methyl methacrylate upon a butadiene polymer. 3,671,610, 6-20-72, Cl. 260-880.

Amakasu, Tatuo; and Yamazaki, Takao, to Koushuha-Netsuren Kabushiki Kaisha. Method of preserving mechanical properties of steel wire during spot welding. 3,648,006, 3-7-72, Cl. 219-58.

Amaki, Masami: *See—*
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Amalric, Jean E., to Merlin Gerin. High-voltage metal-clad apparatus comprising a capacitive voltage divider. 3,701,944, 10-31-72, Cl. 324-126.000.

Aman, Horst: *See—*
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Aman, Norio: *See—*
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Amana Refrigeration, Inc.: *See—*
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Amann, Charles A.: *See—*
Sheridan, David Carl; Amann, Charles A.; and Ricketts, James M., 3,638,533.

Amann, Charles A.; and Rucins, Erik H., to General Motors Corporation. Gas turbine control with prewhirl of air entering the compressor. 3,657,881, 4-25-72, Cl. 60-39.29.

Amann, Charles A.; and Rucins, Erik H. Turbine control method. 3,688,605, 9-5-72, Cl. 74-860.000.

Amann, Herbert; and Bader, Erich, to Asahi Glass Co., Ltd. Method for making polyoxymethylenes. 3,700,650, 10-24-72, Cl. 260-67.0fp.

Amann, Herbert; and Bader, Erich, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Method of making polyoxymethylenes. 3,705,876, 12-12-72, Cl. 260-67.0fp.

Amano Corporation: *See—*
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Amano, Hideo: *See—*
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.

Amano, Hiroshi, to Nippon Gakki Seizo Kabushiki Kaisha. Voltage generating device for controlling musical tone output from electronic musical instruments. 3,673,303, 6-27-72, Cl. 84-1.010.

Amano, Hiroshi, to Nippon Gakki seizo Kabushiki Kaisha. Key operating device for an electronic musical instrument. 3,705,254, 12-5-72, Cl. 84-1.100.

Amano, Hiroyuki; Tsuji, Nobuo; Miyazako, Takushi; Shirasu, Kazuo; and Tutiya, Yosinori, to Fuji Photo Film Co., Ltd. Whitened photographic printing paper. 3,650,752, 3-21-72, Cl. 96-82.

Amano, Hiroyuki, to Fuji Photo Film Co., Ltd. Treatment of and developing composition for photographic light-sensitive materials. 3,664,838, 5-23-72, Cl. 96-56.

Amano, Hiroyuki; and Shirasu, Kazuo, to Fuji Photo Film Co., Ltd. Process of color photographic printing paper. 3,666,468, 5-30-72, Cl. 96-56.

Amano, Hiroyuki; Iwano, Haruhiko; and Shirasu, Kazuo, to Fuji Photo Film Co., Ltd. Bleach-fixing solution for color photography. 3,667,950, 6-6-72, Cl. 96-60.000.

Amano, Hiroyuki; Nishio, Fumihiki; Tsuji, Nobuo; and Shirasu, Kazuo, to Fuji Shashin Film Kabushiki Kaisha; now Fuji Photo Film Co., Ltd. Color photographic printing paper. 3,676,139, 7-11-72, Cl. 96-82.000.

Amano, Hiroyuki; Tsuji, Nobuo; and Shirasu, Kazuo, to Fuji Photo Film Co., Ltd. Color elements containing brightening agents and ultraviolet absorbers. 3,677,762, 7-18-72, Cl. 96-74.000.

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Amarante, Joseph A.; and Montgomery, Robert E., to Corometrics Medical Systems, Inc. Pressure transducer for catheter pressure measurement. 3,662,743, 5-16-72, Cl. 128-2.

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Amato, Joseph John, to United States Surgical Corporation. Mechanized tracheotome. 3,643,649, 2-22-72, Cl. 128-1.

Amato, Richard A., to Electrospin Corporation. Textile machine. 3,665,695, 5-30-72, Cl. 57-58.910.

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Amberg, Stephen W., to Owens-Illinois, Inc., mesne. Two-piece plastic containers having foamed thermoplastic side wall and method of making same. 3,658,615, 4-25-72, Cl. 156-218.

Amberg, Stephen W., to Owens-Illinois, Inc. Apparatus for printing on curved surfaces. 3,661,075, 5-9-72, Cl. 101-40.
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Amberger, Donald J.; and Celentano, Robert A., to United States of America, Army. Solid state pulser using parallel storage capacitors. 3,678,362, 7-18-72, Cl. 320-1.000.
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Ambler, Edward Curtis; and Scoville, Andrew E., to Stanley Works, The. Device for detection and control of current leakage. 3,668,470, 6-6-72, Cl. 317-18.00d.
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Ambrose, Jere B., to Northern Fibre Products Company. Upholstery edging. 3,671,984, 6-27-72, Cl. 5-353.100.
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Ambrose, Jere B., to Northern Fibre Products Company. Decorative seat welt. 3,696,771, 10-10-72, Cl. 112-417.000.
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Ammerman, Gale R., to Mississippi State University Development Foundation, Inc. Fish skinning process. 3,706,333, 12-19-72, Cl. 146-228.000.
Ammerman, George Edward; and McFarlane, William, to Heatcraft, Inc. Open coil heating element assembly. 3,641,312, 2-8-72, Cl. 219-532.
Ammerman, Harvey F.; and Radsky, Alexey P. Water seasaw device. 3,666,265, 5-30-72, Cl. 272-56.000.
Ammermann, Frank E.: *See*—
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Ammon, John P.; and Inacker, Frederick T., 3,671,917.
Ammon, John P.; and Inacker, Frederick T., to Ammon & Champion Company, Inc. Printed circuit board connector. 3,671,917, 6-20-72, Cl. 339-17.00l.
Ammon, John Preston; and Inacker, Frederick T., to Elfab Corporation. Multi-layer printed circuit boad and method of manufacture. 3,660,726, 5-2-72, Cl. 317-101.
Ammons, Richard B. Method of preparing reinforced sheeting material based on chlorinated olefin polymers. 3,705,067, 12-5-72, Cl. 156-324.000.
Ammons, Robert L.; and Moore, Robert B., Jr., to Eastman Kodak Company. Spun polyester strands and method for making. 3,664,114, 5-23-72, Cl. 57-140.00r.
Amo, Kiyoyuki: *See*—
Fukunaga, Masao; and Amo, Kiyoyuki, 3,706,135.
Amo, Tadashi; and Nagasawa, Tuneo, to Kao Soap Company, Ltd. Dentifrice composition. 3,692,894, 9-19-72, Cl. 424-56.000.
Amoco Production Company: *See*—
Askew, Warren S.; and Marrs, Richard E., 3,698,479.
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Donham, James E., 3,699,118.
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Wilder, Lawrence B., 3,666,304.

Amodei, Juan Jose, to RCA Corporation. Information storage system employing optical entry and removal of information. 3,651,488, 3-21-72, Cl. 340-173.

Amodei, Juan Jose; and Williams, Richard, to RCA Corporation. Electro-optical memory. 3,660,818, 5-2-72, Cl. 340-173.

Amole, Inc., mesne: *See—*
Lala, Louis A., 3,673,954.

Amolsch, William; and Maher, Robert J., to Douthitt Corporation. Microfilm duplicator and method of photocopying microfilms. 3,671,124, 6-20-72, Cl. 355-124.000.

Amori, Joseph A. Fruit cutting and de-pitting system. 3,688,826, 9-5-72, Cl. 146-17.00r.

Amoroso, Michael J., to Lee-Norse Company. Material collecting means for mining machines. 3,680,920, 8-1-72, Cl. 299-64.000.

Amoroso, Michael J., to Lee-Norse Company. Mining machine having liquid supply sealing means. 3,698,769, 10-17-72, Cl. 299-73.000.

Amos and Smith Hosiery Company: *See—*
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Amos, Arthur: *See—*
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Amos, Brian Franklyn: *See—*
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Amos, Charles William; Johnson, Maynard Dale; and Dieckmann, John Jacob, to Dunham-Bush, Inc. Apparatus for helically corrugating flexible tubular metal foil ducts. 3,685,329, 8-22-72, Cl. 72-129.000.

Amos, Homer C.: *See—*
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Amos, Homer C.; and Strickland, Edward T. Article coated with a water-washable tacky elastomer. 3,682,690, 8-8-72, Cl. 117-122.00p.

Amos, Ralph A.: *See—*
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Amos, Robert Walter James: *See—*
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Amosov, Pavel Evgenievich; Imyanitov, Leonid Mikhailovich; Smekhov, Vitaly Konstantinovich; and Trofimov, Valery Leonidovich. Screw-rotor machine for compressible fluids. 3,666,384, 5-30-72, Cl. 418-201.

Amosov, Pavel Evgenievich; Smekhov, Vitaly Konstantinovich; Trofimov, Valery Leonidovich; Shvarts, Avely Isaich; Shnepp, Vladimir Borisovich; and Razumovsky, Alexandr Petrovich. Screw rotor machine for compressible media. 3,692,441, 9-19-72, Cl. 418-191.00.

AMP Domestic Inc.: *See—*
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Rueger, Herman; and Keller, Joseph Richard, 3,699,651.

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Baba, Paul D.; and Argentina, Giltan Michael, 3,644,207.
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Boblett, Emil V., 3,702,448.
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Clark, Harold V.; and Garagnon, Gary B., 3,643,012.
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Amrehn, Hermann, to Chemische Werke Huls Aktiengesellschaft. Method and system for the automatic control of chemical plants with parallel-connected computer back-up system. 3,636,331, 1-18-72, Cl. 235-151.12.

Amsbury, Clifford Roy: *See—*
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Amscat Corporation: *See—*
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Amthor, Helmut K., to Union Carbide Corporation. Pressure relief vent valve for a fluid tight sealed container especially an alkaline galvanic cell. 3,664,878, 5-23-72, Cl. 136-178.

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Amtsberg, Lester A.; and Wallace, William K., to Chicago Pneumatic Tool Company. Pneumatic nut-runner having a torque sensing device. 3,645,341, 2-29-72, Cl. 173-12.

Amtsberg, Lester A.; Bilodeau, Paul J.; and Judd, Sebastian F., to Chicago Pneumatic Tool Company. Fluid operated rock drill having an independent rotation motor. 3,685,593, 8-22-72, Cl. 173-14.000.

Amundsen, Paul D.; and Liautaud, John N., to Fendall Company. Protective faceshield. 3,696,442, 10-10-72, Cl. 2-8.000.

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Anacker, Wilhelm, to International Business Machines Corporation. Magnetic decoder network with multi-dimensional selection capability. 3,646,550, 2-29-72, Cl. 340-347.
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Ance, Louis, to Superior Continental Corporation. Mechanical, solderless ground wire connectors for telephonic cable shielding jackets. 3,643,006, 2-15-72, Cl. 174-84.
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Anchor-Wate Company: *See—*
Findley, Anthony W.; and Rogers, Jesse M., 3,670,696.
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Ancker, Fred H., to Union Carbide Corporation. Calendering of polymeric materials. 3,658,978, 4-25-72, Cl. 264-175.
Ancona, Anthony, to Chandler Evans, Inc. Digital function generator for two independent variables with interpolation. 3,676,655, 7-11-72, Cl. 235-152.000.
Ancra Corporation: *See—*
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Anderau, Walter; Oetiker, Alfred; and Deuschel, Werner, to Ciba Limited. Process for crosslinking gelatin with halogenated organic compounds in the presence of basic tertiary amine. 3,634,386, 1-11-72, Cl. 260-117.
Anderegg, Paul; and Graner, Gerhard, to International Standard Electric Corporation. Wrapping machine. 3,649,419, 3-14-72, Cl. 156-567.
Anderegg, Paul; and Graner, Rolf G., to International Standard Electric Corporation. Wrapping machine. 3,679,522, 7-25-72, Cl. 156-477.000.
Anderl, Peter, to Niezoldi & Kramer GmbH. Movie camera with delayed release and scene limiting circuits. 3,692,393, 9-19-72, Cl. 352-175.000.
Anderle, Joseph A., to Levolor Lorentzen, Inc. Inclined-soffit venetian-blind and installation. 3,646,986, 3-7-72, Cl. 160-168.
Andermac: *See—*
Anderson, Edith T.; and Anderson, Clifford M., 3,648,699.
Andermo, Ingvar, to Institutet For Mikrovagsteknip. Device for measuring the relative movement between an object and the environment of the object. 3,689,157, 9-5-72, Cl. 356-28.000.
Anders, Dietmar, to Berstorff, Herrmann Maschemenbau GmbH. Apparatus for granulating thermoplastic materials. 3,685,751, 8-22-72, Cl. 241-256.000.
Anders, Dietmar, to Berstorff, Hermann, Maschinenbau GmbH. Extruder worms for extruding synthetic resins. 3,696,913, 10-10-72, Cl. 198-213.000.
Anders, Hans Joachim, to International Telephone and Telegraph Corporation. Brake shoe for spot-type disc brakes. 3,638,764, 2-1-72, Cl. 188-73.1.
Anders, Hans Joachim, to ITT Industries, Inc. Spot-type disc brake shoe. 3,693,764, 9-26-72, Cl. 188-73.100.
Anders, Roland A.: *See—*
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Anders, Walter G.; and Skolmutch, Jon S., to Diebold, Incorporated. Power file leveling device. 3,639,023, 2-1-72, Cl. 312-268.
Anders, Walter G., to Diebold, Incorporated. Leveling device for power file. 3,639,024, 2-1-72, Cl. 312-268.
Anders, Walter G.; and Obermiller, Herbert C., to Diebold, Incorporated. Pneumatic tube carrier construction. 3,701,497, 10-31-72, Cl. 243-35.000.
Andersen, Adolph Leslie. Four wheel drive vehicle. 3,669,202, 6-13-72, Cl. 180-50.000.
Andersen, Anton M. Method for molding forms on various substrates. 3,679,498, 7-25-72, Cl. 156-3.000.
Andersen, Anton M. Apparatus for molding forms on various substrates. 3,679,525, 7-25-72, Cl. 156-515.000.
Andersen, Axel Brix, to Smidth, F. L., & Co. Method of machining cylindrical shells. 3,646,838, 3-7-72, Cl. 82-1.
Andersen, Bjorn, to U.S. Philips Corporation. Speech-controlled bilateral amplifier. 3,660,603, 5-2-72, Cl. 179-1.
Andersen, Bjorn, to Manus, Max and Manus, George. Decentralised local telephone system. 3,670,108, 6-13-72, Cl. 179-18.00j.
Andersen, Clifford W., to Wurlitzer Company, The. Tone balancing element. 3,641,861, 2-15-72, Cl. 84-192.
Andersen, Clifford W., to Wurlitzer Company, The. Stereophonic electronic piano. 3,643,000, 2-15-72, Cl. 84-1.01.
Andersen, Clifford W., to Wurlitzer Company, The. Tone balancing rib member. 3,643,539, 2-22-72, Cl. 84-19.
Andersen, Clifford W., to Wurlitzer Company, The. Portable music laboratory. 3,695,138, 10-3-72, Cl. 84-470.000.
Andersen, Erik, to Andersen, Hans Christian. Method for making panty hoses. 3,671,352, 6-20-72, Cl. 156-267.000.
Andersen, Hans Christian: *See—*

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Andersen, Harold T.: *See—*
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Andersen, Harry M.; Morris, David C.; and Tolbert, Tommy L., to Monsanto Company. Method of making a contoured composite product. 3,655,863, 4-11-72, Cl. 264-294.
Andersen, Harry M.; and Calfee, John D., to Monsanto Company. Molding composition and method. 3,658,748, 4-25-72, Cl. 260-37.
Andersen, Kare: *See—*
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Andersen, Niels H.: *See—*
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Andersen, Robert D. Methods and means for recording and reading magnetic imprints. 3,668,670, 6-6-72, Cl. 340-174.10f.
Andersen, Stanley R.: *See—*
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Andersen, Stanley R.; and Kinkade, Robert G., to Cogar Corporation. Variable organization memory system. 3,686,640, 8-22-72, Cl. 340-172.500.
Andersen, Viggo S.: *See—*
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Anderson, Albert E.; and Disch, Ellis V. Simulated leather laminate and its preparation. 3,684,637, 8-15-72, Cl. 161-64.000.
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Anderson, Albert W.; and Konrad, Charles E., to General Electric Company. Direct current control circuit. 3,660,738, 5-2-72, Cl. 318-138.000.
Anderson, Albert W.; and Konrad, Charles E., to General Electric Company. Series motor control circuit using thyristors energized by direct current. 3,667,021, 5-30-72, Cl. 318-341.000.
Anderson, Albin R.; and Jennings, John D., to Western Electric Company, Incorporated. Apparatus for frequency adjusting and assembling monolithic crystal filters. 3,691,720, 9-19-72, Cl. 53-91.000.
Anderson, Aldin R.; Jennings, John D.; and Killerby, Walter E., to Western Electric Company, Incorporated. Apparatus for producing a sealed article. 3,696,986, 10-10-72, Cl. 228-3.000.
Anderson, Alfred J.: *See—*
Hardman, Kenneth V.; and Anderson, Alfred J., 3,700,215.
Anderson, Alton D. Method and apparatus for measuring range utilizing superimposition or alignment of images. 3,663,105, 5-16-72, Cl. 356-4.
Anderson, Amos R., to Packo, Joseph J., mesne. Method for sealing leaks in vessels. 3,634,560, 1-11-72, Cl. 264-36.
Anderson, Amos R., to Packo, Joseph J., mesne. Stabilizing soils. 3,660,984, 5-9-72, Cl. 61-36.
Anderson, Andrew W., to Scandia Packaging Machinery Company. Pushing means for use in a wrapping machine. 3,633,334, 1-11-72, Cl. 53-234.
Anderson, Andrew W., to Scandia Packaging Machinery Company. Apparatus for punching holes in heat shrinkable web material. 3,654,829, 4-11-72, Cl. 83-78.
Anderson, Andrew W.; Alexander, James; Leszczynski, Martin E.; and Higgins, Lester A., to Scandia Packaging Machinery Company. Wrapping machine. 3,656,273, 4-18-72, Cl. 53-59.
Anderson, Arthur F., to Trans-Wheel, Inc. Axial piston pump. 3,682,047, 8-8-72, Cl. 91-505.000.
Anderson, Arthur William; and Truett, William Lawrence, to Du Pont de Nemours, E. I., and Company. Olefin polymerization catalyst and process. 3,679,652, 7-25-72, Cl. 260-94.90b.
Anderson, Arvid B., to Bishop Freeman Company. Hand iron. 3,706,146, 12-19-72, Cl. 38-75.000.
Anderson, Bernard F., to Du Pont de Nemours, E. I., and Company. Agricultural mulch. 3,673,134, 6-27-72, Cl. 260-5.000.
Anderson, Bernard J.; and Schoenborn, William E., to General Electric Company. Turbomachinery rotors. 3,661,475, 5-9-72, Cl. 416-219.
Anderson Box Company, Inc.: *See—*
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Anderson, Bror E.: *See—*
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Anderson, Bror E.; and Schick, Margery L. Thermographic stencil sheet, manufacture thereof, and method of making an imaged stencil sheet. 3,694,245, 9-26-72, Cl. 117-35.500.
Anderson, Bror E.; and Schick, Margery L., to Weber Marking Systems, Inc. Thermographic stencil sheet and method of making an imaged stencil sheet. 3,704,155, 11-28-72, Cl. 117-35.400.
Anderson Bros., Mfg., Co.: *See—*
Desnick, Mandel L.; Willcox, Jesse A.; and Christensen, Jay A., 3,642,411.
Jacobson, William P., 3,656,614.
Talarico, Lawrence J., 3,706,183.
Anderson, Bruce J.; and Noegel, Charles R., to Electronic Design & Services, Inc. Signature counter. 3,702,925, 11-14-72, Cl. 235-98.00r.
Anderson, C. H.; and Griffiths, Colin, to Pullman Incorporated. Vacuum degassing unit. 3,706,449, 12-19-72, Cl. 266-34.00v.
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Endress, James W.; Byrns, Edson H.; and Anderson, Carl M., 3,667,860.
Anderson, Carl M.; and Osborne, William T., to Carrier Corporation. Heating and cooling refrigeration apparatus. 3,665,724, 5-30-72, Cl. 62-196.
Anderson, Carl M.; and Endress, James W., to Carrier Corporation. Emergency shutdown mechanism for centrifugal compressor. 3,700,355, 10-24-72, Cl. 417-33.000.
Anderson, Carl P.; and Hanson, Thomas E., to SCM Corporation. Typewriter ribbon cartridge. 3,643,777, 2-22-72, Cl. 197-151.
Anderson, Carl P., to SCM Corporation. Typewriter ribbon cartridge guide support. 3,643,778, 2-22-72, Cl. 197-151.
Anderson, Carl P.; Kennedy, Charles H.; and Perry, Donald S., to SCM Corporation. Ribbon mechanism for cartridge supported ribbons. 3,643,779, 2-22-72, Cl. 197-151.
Anderson, Carl S.; Bittle, David F.; Veazey, Thomas M.; and Wooten, Robert G., to Monsanto Company. Bead polymerization process and product. 3,642,733, 2-15-72, Cl. 260-80.81.
Anderson, Charles C. Fish and game receptacle. 3,674,188, 7-4-72, Cl. 224-5.00g.
Anderson, Charles E.; deceased (by Thackston, Ann; executrix). Tread supporting assembly. 3,667,572, 6-6-72, Cl. 182-220.000.
Anderson, Charles I. Aircraft anti-hijacking structure. 3,658,277, 4-25-72, Cl. 244-1.
Anderson, Charles I. Rotary blade for mulching lawn mower. 3,703,071, 11-21-72, Cl. 56-295.000.
Anderson, Charles M.; and Boling, Harry G., to Stamler, W. R., Corporation. Discrete material handling apparatus. 3,651,923, 3-28-72, Cl. 198-168.
Anderson, Charles M.; and Ratcliff, Edward H., Jr., to Stamler, W. R., Corporation. Variable-stroke car shifting apparatus. 3,696,754, 10-10-72, Cl. 104-162.000.
Anderson, Charles Merton, to Year-A-Round Cab Corporation. Refrigeration and cooling device for shrimp boats. 3,678,697, 7-25-72, Cl. 62-274.000.
Anderson, Clare E.: *See—*
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Anderson, Clayton & Co.: *See—*
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Anderson, Clifford M.: *See—*
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Anderson, Dale L., to Johnson & Johnson. Surgical drape. 3,650,267, 3-21-72, Cl. 128-132.
Anderson, Daniel Gustav; Gladding, Edward Karcher; and Sullivan, Raymond, to Du Pont de Nemours, E. I., and Company. Cyano substituted perfluorovinyl ethers. 3,641,104, 2-8-72, Cl. 260-465.6.
Anderson, Daniel J., to Mallory, P. R., & Co. Inc. Capacitor with azeotropic electrolyte for wide temperature range operation. 3,670,212, 6-13-72, Cl. 317-230.000.
Anderson, David G., to Quanta Welding Company. Method of solid state bonding an article to a tube surface. 3,666,910, 5-30-72, Cl. 219-107.
Anderson, David G.; and Parker, John C., to Quanta Welding Company. Method of solid state bonding. 3,666,912, 5-30-72, Cl. 219-117.
Anderson, David G., to Quanta Welding Company. Article of manufacture and method of making the same. 3,676,636, 7-11-72, Cl. 219-117.00r.
Anderson, David G., to Quanta Welding Company. Aperture cover and method of making the same. 3,676,637, 7-11-72, Cl. 219-117.00r.
Anderson, Dean B., to North American Rockwell Corporation. Optical parametric device. 3,660,673, 5-2-72, Cl. 307-88.300.
Anderson, Dean T., to Collins Radio Company. Digital audio squelch. 3,633,112, 1-4-72, Cl. 325-478.
Anderson, Dennis: *See—*

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Anderson, Dennis J., to Remington Arms Company, Inc. Chuck for lathe, grinding or milling machine. 3,645,154, 2-29-72, Cl. 82-40.
Anderson, Donald E.; and Swisher, Richard L., to Schjeldahl, G. T., Company. Electroluminescent display device with aperatured electrodes. 3,634,714, 1-11-72, Cl. 313-108.
Anderson, Donald E., to Schjeldahl, G. T., Company. Process for coating amorphous selenium. 3,652,330, 3-28-72, Cl. 117-201.
Anderson, Donald H.: *See—*
O'Brien, Robert J.; Woodall, Norman B.; and Anderson, Donald H., 3,639,061.
Anderson, Donald L., to Amerock Corporation. Latch for appliance doors. 3,642,313, 2-25-72, Cl. 292-66.
Anderson, Donald L., to Amerock Corporation. Oven door latch. 3,646,612, 2-29-72, Cl. 292-200.
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Anderson, Douglas W.; and Chapman, Dave, to Chapman, Dave, Goldsmith & Yomasaki, Inc. Method of packaging. 3,690,088, 9-12-72, Cl. 53-29.000.
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Anderson, Duane S. Device for transmitting and displaying scores on television and radio receivers. 3,701,946, 10-31-72, Cl. 325-64.000.
Anderson, Dwayne Roy, 50% to Hayes, George D. Tool holder. 3,647,232, 3-7-72, Cl. 279-68.
Anderson, Earl R., to Brex Corporation. Sizer conveyor. 3,666,092, 5-30-72, Cl. 209-73.
Anderson, Earl R., to Brex Corporation. Anti-bridging means for bulk fruit feed supply. 3,707,223, 12-26-72, Cl. 198-185.000.
Anderson, Edgar L.: *See—*
Mc Donald, Robert L.; and Anderson, Edgar L., 3,694,962.
Anderson, Edgar L.; and Schneier, Michael L., to Sybron Corporation. Control apparatus for washer-sterilizer. 3,683,944, 8-15-72, Cl. 134-57.00r.
Anderson, Edith T.; and Anderson, Clifford M., to Andermac. Incontinence garment. 3,648,699, 3-14-72, Cl. 128-288.
Anderson, Edward P.: *See—*
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Anderson, Edwin G. Telescopic cover assembly for open bed vehicles and latch assembly for use therewith. 3,640,565, 2-8-72, Cl. 296-137.
Anderson, Elvin L.; and Graboyes, Harold, to Smith Kline & French Laboratories. Intermediates for preparing acridines. 3,692,834, 9-19-72, Cl. 260-566.00b.
Anderson, Eric; and Spreadsborough, John. Aluminum-steel composite. 3,682,606, 8-8-72, Cl. 29-196.200.
Anderson, Erik Arne: *See—*
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Anderson, Eugene A.: *See—*
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Anderson, Eugene A. Rotary blade for meat grinder. 3,646,979, 3-7-72, Cl. 146-189.
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Anderson, Forrest Symington, to Anderson Manor Limited. Haulage mechanism for mining machines. 3,684,067, 8-15-72, Cl. 192-4.00r.
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Anderson, Fred N., to Cherry Electrical Products Corporation. Axially reciprocal actuator for a sealed switch. 3,678,235, 7-18-72, Cl. 200-168.00g.
Anderson, Fred T., to Gray Manufacturing Company. Reactor apparatus. 3,707,355, 12-26-72, Cl. 23-277.00r.
Anderson, Gene A., to Dow Chemical Company, The. Soil sampling device. 3,696,873, 10-10-72, Cl. 175-20.000.
Anderson, Gene W.: *See—*
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Anderson, George C.: *See—*
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Anderson, George C. Support device for concrete reinforcing bars. 3,673,753, 7-4-72, Cl. 52-685.000.
Anderson, George de Wenter; and Watts, Ronald E., to Minnesota Mining and Manufacturing Company. Light-sensitive compositions comprising a silver salt of a tetraazaindene. 3,689,270, 9-5-72, Cl. 96-76.000.
Anderson, George Edward, to RCA Corporation. Kinescope bias arrangement to provide both constant amplitude D. C. restoration pulses and arc discharge protection. 3,647,944, 3-7-72, Cl. 178-5.4.
Anderson, George F., to AMF Incorporated. Constant ratio throttle control. 3,683,716, 8-15-72, Cl. 74-491.000.
Anderson, George J.: *See—*
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Anderson, George J.; and Dahms, Ronald H., to Monsanto Company. Impregnated cellulosic sheet members wherein impregnant is a C_8-C_{13} carbocyclic substituted resole. 3,637,429, 1-25-72, Cl. 117-143.
Anderson, George J.; and Dahms, Ronald H., to Monsanto Company. Resole varnish mixture. 3,652,477, 3-28-72, Cl. 260-29.3.
Anderson, George J.; and Dahms, Ronald H., to Monsanto Company. Resole varnishes prepared from substituted phenols. 3,691,121, 9-12-72, Cl. 260-29.300.
Anderson, George J.; and Dahms, Wilbraham-Ronald, to Monsanto Company. Resolve varnishes wherein phenol is alkylated with a dicyclopentadiene-containing mixture and then condensed with formaidettyde to produce the resole. 3,703,494, 11-21-72, Cl. 260-29.30.
Anderson, Gerald R.; and Wann, William C., Jr., to FMC Corporation. Fruit orienter. 3,666,079, 5-30-72, Cl. 198-33.0aa.
Anderson, Gerald R.; and Wann, William C., Jr., to FMC Corporation. Peach pitter. 3,695,322, 10-3-72, Cl. 146-28.00r.
Anderson, Glenn A., to Avco Corporation. Method of fabricating a composite superconductive conductor. 3,644,988, 2-29-72, Cl. 29-599.
Anderson, Glenn A., to Sanders Associates, Inc. Method for preparing and anti-oxidizing, active alloy brazing composition. 3,662,455, 5-16-72, Cl. 29-473.100.
Anderson, Glenn H.: *See—*
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Anderson, Glenn R., to Minnesota Mining and Manufacturing Company. Duplicating device and method utilizing heat building in an enclosed stack of sheets. 3,683,807, 8-15-72, Cl. 101-426.000.
Anderson, Gordon C.: *See—*
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Anderson, Gordon C.; and Page, John D., to Maremont Corporation. Spindle assembly. 3,640,062, 2-8-72, Cl. 57-88.
Anderson, Gordon H.; Lea, Albert; and Ahlstrom, Raymond C., to King-Seeley Thermos Co. Vibratory finishing apparatus. 3,707,058, 12-26-72, Cl. 51-163.000.
Anderson, Gordon S.: *See—*
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Greenwood, Marvin H.; Slaughter, Lomis, Jr.; and Polydoros, George N., 3,651,711.
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Anderson, Gunnar R., to United Aircraft Corporation. Bent tube inspection method and apparatus. 3,688,534, 9-5-72, Cl. 72-32.000.
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Anderson, Harold; Cain, Jerry Blanchard; and Doggett, John G., Jr., to Motorola, Inc. Combined scan and track antennas. 3,696,432, 10-3-72, Cl. 343-761.000.
Anderson, Harold C., to Litton Systems, Inc. Microwave power density meter. 3,691,459, 9-12-72, Cl. 324-95.000.
Anderson, Harold C.; and Graff, David F., to Litton Systems, Inc. Microwave generating apparatus including spurious signal suppression means. 3,697,804, 10-10-72, Cl. 315-105.000.
Anderson, Harold E., to Mr. Culloch Corporation. Heat seal for fuel injection nozzles. 3,695,235, 10-3-72, Cl. 123-32.00r.
Anderson, Harold Francis: *See—*
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Anderson, Harold, Jr. Visual aid for trailer hitch. 3,702,029, 11-7-72, Cl. 33-246.0as.
Anderson, Harold M., to Xerox Corporation. Magnetic recording head which accurately defines the width of the recording track. 3,668,332, 6-6-72, Cl. 179-100.20c.
Anderson, Harold Peter; and Fenton, Francis Michael, to Bell Telephone Laboratories, Incorporated. Key telephone system call signaling and station set data transfer arrangement. 3,701,854, 10-31-72, Cl. 179-18.0ad.
Anderson, Harry T., to Swift & Company. Water treatment process. 3,651,189, 3-21-72, Cl. 204-147.

Anderson, Harry T., to Swift & Company. Electrolytic removal of greasy matter from aqueous wastes. 3,673,065, 6-27-72, Cl. 204-149.000.
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Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald J.; and Sutherland, David C., to Geomet, Incorporated. Air pollution determination by mercury air sampling. 3,640,624, 2-8-72, Cl. 356-36.
Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald J.; and Sutherland, David C., to Geomet, Incorporated. System and method of air pollution monitoring utilizing chemiluminescence reactions. 3,659,100, 4-25-72, Cl. 250-71.00r.
Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald, J.; and Sutherland, David C., to Geomet, Incorporated. Chemiluminescence air pollutants monitoring device. 3,700,896, 10-24-72, Cl. 250-71.00r.
Anderson, Isabel B. Bookmarks. 3,670,691, 6-20-72, Cl. 116-119.000.
Anderson Jacobson, Inc.: *See—*
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Anderson, James D.: *See—*
Cheh, Ernest L.; Bowden, Wade R., Jr.; and Anderson, James D., 3,661,029.
Anderson, James D. Hide removal apparatus and method. 3,683,455, 8-15-72, Cl. 17-50.
Anderson, James H.; and Anderson, James H., Jr., to Coupling Corporation of America. Torque transmitting coupling. 3,646,777, 3-7-72, Cl. 64-15.
Anderson, James H., to Coupling Corporation of America. Torque transmitting coupling. 3,649,058, 3-14-72, Cl. 287-129.
Anderson, James H., Jr.: *See—*
Anderson, James H.; and Anderson, James H., Jr., 3,646,777.
Anderson, James J.; Byrd, Wendell M., Jr.; and Camacho, Vasco G., to Mobil Oil Corporation. Novel phosphorus and halogen-containing compounds. 3,706,821, 12-19-72, Cl. 260-951.000.
Anderson, James Mitchell, to VanHeerden, Philip; in his Capacity of minister of Water Development for the Government of Rhodesia. Hydrological recorder. 3,707,000, 12-19-72, Cl. 346-33.000.
Anderson, James R., to Research, Incorporated. Snow tire with retractable studs. 3,672,421, 6-27-72, Cl. 152-208.000.
Anderson, Jerrold L.; Haines, Robert C., Jr.; and Powell, Thomas C., to National Cash Register Company, The. Minute capsules and their manufacture, en masse. 3,694,372, 9-26-72, Cl. 252-316.000.
Anderson, Jimmy J. Valve stem extractor-inserter. 3,644,982, 2-29-72, Cl. 29-213.
Anderson, John E.; Parish, Clyde E.; and Ross, George H., to Signal Companies, Inc., The. Dialkyl carbonate preparation. 3,632,624, 1-4-72, Cl. 260-463.
Anderson, John E.; Parish, Clyde E.; and Ross, George H., to Signal Chemical Company, mesne. Amino carbonate adducts and method of making same. 3,655,719, 4-11-72, Cl. 260-463.
Anderson, John E. Sawhorse support or brace. 3,666,047, 5-30-72, Cl. 182-185.000.
Anderson, John E.; and Sinnett, Homer Dayle, to State of Nebraska. Surface elevation profile measuring device. 3,675,545, 7-11-72, Cl. 94-46.000.
Anderson, John E. Fluid actuated toy track system with constant flow valve. 3,697,071, 10-10-72, Cl. 273-86.00d.
Anderson, John H., Jr., to Intercontinental Dynamics Corporation. Variable time constant altitude rate device. 3,683,690, 8-15-72, Cl. 73-179.000.
Anderson, John Kenneth, to British Insulated Callender's Cables Limited. Electrical insulating oil, and to electrical apparatus incorporating them. 3,668,128, 6-6-72, Cl. 252-63.000.
Anderson, John M., to General Electric Company. Current transformers with improved coaxial feed. 3,701,003, 10-24-72, Cl. 323-6.000.
Anderson, John R.: *See—*
Adams, Ralph C.; and Anderson, John R., 3,632,506.
Anderson, John Ray; and Hollingworth, Richard Peck, to Sybron Corporation. Removal of copper from aqueous solutions with highly stressed, activated ferrous metals. 3,674,466, 7-4-72, Cl. 75-109.000.
Anderson, John T., to Crown Cork & Seal Company, Inc. Palletizing apparatus. 3,659,726, 5-2-72, Cl. 214-6.
Anderson, John W.: *See—*
Harbur, Delbert R.; Anderson, John W.; and Money, Richard K., 3,660,075.
Anderson, John W., to Sylvania Electric Products, Inc. Lamp having improved press seal. 3,668,456, 6-6-72, Cl. 313-318.000.
Anderson, John Wallace; and Loughridge, Frederick Ardel, to Sylvania Electric Products, Inc. Photoflash lamp having laminated glass envelope. 3,676,043, 7-11-72, Cl. 431-93.000.
Anderson, Karl R., to Thompson, John T. and Gillemot, George W. Tap shoe assembly for use with wire terminal strips. 3,699,284, 10-17-72, Cl. 200-51.040.
Anderson, Keith B.: *See—*
Best, Albert M.; and Anderson, Keith B., 3,675,802.
McCarty, Horace G.; Anderson, Keith B.; and Stoltzfus, David D., 3,661,287.
Anderson, Lawrence F. Automatic collision warning system. 3,660,846, 5-2-72, Cl. 343-7.0ed.
Anderson, Lawrence K.; Feldman, Martin; and Pinnow, Douglas Arthur, to Bell Telephone Laboratories, Incorporated. High-speed printing apparatus. 3,703,137, 11-21-72, Cl. 95-4.50r.
Anderson, Lawrence Keith; and Feldman, Martin, to Bell Telephone Laboratories, Incorporated. High-speed printing apparatus. 3,653,067, 3-28-72, Cl. 346-108.
Anderson, LeRoy A.: *See—*
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Anderson, Leroy E.; and Munn, Gerald J., to Snappy, Inc. Rectangular-duct forming machine. 3,636,903, 1-25-72, Cl. 113-54.
Anderson, Lowell R.: *See—*
Young, David E.; Anderson, Lowell R.; and Fox, William B., 3,654,335.
Young, David E.; Anderson, Lowell R.; and Fox, William B., 3,689,563.
Anderson, Lowell Ray: *See—*
Young, David E.; Anderson, Lowell Ray; and Fox, William Burke, 3,681,423.
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Anderson, Malcolm J. Article holding apparatus. 3,635,433, 1-18-72, Cl. 248-309.
Anderson Manor Limited: *See—*
Anderson, Forrest Symington, 3,684,067.
Anderson, Marshall N., to Sellstrom Manufacturing Company. Ear-protecting device. 3,661,225, 5-9-72, Cl. 181-33.
Anderson, Marshall N., to Sellstrom Manufacturing Company. Ear-protecting device. 3,686,691, 8-29-72, Cl. 2-209.000.
Anderson, Marvin R. Tooth forming tool. 3,672,203, 6-27-72, Cl. 72-469.000.
Anderson, Matthew E.; and Davis, Edward J., to United States of America, Navy. Omnidirectional spring mass initiator (U). 3,631,804, 1-4-71, Cl. 102-73.
Anderson, Melvin R.: *See—*
Breed, Charles P.; and Anderson, Melvin R., 3,697,740.
Anderson, Merlin F.; and Perkins, Lee E., to Halliburton Company. Retrievable packer apparatus for use in a well bore and method of prolonging its operating life. 3,702,634, 11-14-72, Cl. 166-315.000.
Anderson, Noel M. Yard hydrant. 3,672,392, 6-27-72, Cl. 137-288.000.
Anderson, Norman C.: *See—*
Rupert, Robert E.; and Anderson, Norman C., 3,645,783.
Anderson, Norman Stewart, to Imperial Chemical Industries, Limited. Nylon panels. 3,702,280, 11-7-72, Cl. 161-160.000.
Anderson Ollia B.: *See—*
Whiting, Ronald, 3,648,893.
Anderson, Orin M. Refuse disposal transfer station. 3,640,411, 2-8-72, Cl. 214-41.
Anderson, Paul G. Stadium chair with folding seat. 3,638,998, 2-1-72, Cl. 297-332.
Anderson, Paul L.: *See—*
Iosue, Michael F.; Robinson, Ronald F.; Anderson, Paul L.; and Ziobrowski, Edwin P., 3,663,866.
Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Tetrazolo pyridazines. 3,637,690, 1-25-72, Cl. 260-250.
Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Hydrazone derivatives of 3-substituted amino-6-hydrazino pyridazines. 3,706,744, 12-19-72, Cl. 260-250.00a.
Anderson, Paul S.: *See—*
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Anderson, Percy D. Scraper snowplow with pivotal dozer blade. 3,657,828, 4-25-72, Cl. 37-46.
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Bodle, William W.; and Anderson, Philip J., 3,646,765.
Anderson, Philip J., to Institute of Gas Technology. Gripping device. 3,643,500, 2-22-72, Cl. 73-103.
Anderson, Philip Warren; Dynes, Robert Carr; and Fulton, Theodore Alan, to Bell Telephone Laboratories, Incorporated. Supercurrent structures utilizing mobil flux vortices. 3,676,718, 7-11-72, Cl. 307-306.000.
Anderson Power Products, Inc.: *See—*
Goldman, Wayne E., 3,648,219.
Sharaf, Harold M.; and Eby, Richard L., 3,676,770.
Winkler, Edward D., 3,654,586.

Anderson, Ralph F., to Keystone Consolidated Industries, Inc. Plastic lay-down handle. 3,656,205, 4-18-72, Cl. 16-125.
Anderson, Ralph F. Method and apparatus for closing containers. 3,706,175, 12-19-72, Cl. 53-39.000.
Anderson, Ray B., to Texas Instruments, Incorporated. Method of making automotive trim. 3,648,353, 3-14-72, Cl. 29-470.1.
Anderson, Ray C. Projector player. 3,687,560, 8-29-72, Cl. 352-8.000.
Anderson, Ray C. Unitary projector player. 3,704,940, 12-5-72, Cl. 352-72.000.
Anderson, Raymond H., Jr.; Rawe, Richard A.; and Whiteson, Bennett V., to McDonnell Douglas Corporation. Filler for roll-weld structures. 3,667,107, 6-6-72, Cl. 29-423.000.
Anderson, Raymond H., Jr.; and Whiteson, Bennett V., to McDonnell Douglas Corporation. Method of increasing beryllium ductility. 3,699,798, 10-24-72, Cl. 72-377.000.
Anderson, Raymond P.: *See—*
Galiano, Francis R.; Thackaberry, Samuel P.; Smith, Wayne E.; and Anderson, Raymond P., 3,681,216.
Anderson, Raymond P.; and Galiano, Francis R., to Gulf Research & Development Company. Process of heating caprolactam graft copolymers to increase melt strength. 3,644,571, 2-22-72, Cl. 260-857.
Anderson, Richard A.: *See—*
Collins, John J.; Conviser, Stephen A.; Anderson, Richard A.; and Manchanda, Krishan D., 3,660,967.
Anderson, Richard C., to General Electric Company. Transparent zirconia-, hafnia-, and thoria-rare earth ceramics. 3,640,887, 2-8-72, Cl. 252-301.1.
Anderson, Richard E., to General Electric Company. High frequency tachometer generator. 3,646,376, 2-29-72, Cl. 310-156.
Anderson, Richard M.: *See—*
Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,642,870.
Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,644,493.
Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,655,726.
Anderson, Richard M.; and Heimsch, Robert A., to Monsanto Company. Photoresist compositions. 3,656,951, 4-18-72, Cl. 96-35.1.
Anderson, Richard M.; Parrish, Hushel L., Jr.; and Spade, Kenneth L., to Heil-Quaker Corporation. Air condition apparatus with refrigerant super cooler. 3,691,786, 9-19-72, Cl. 62-279.000.
Anderson, Richard N., to Anderson, V. E., Mfg. Co. Window structure. 3,643,377, 2-22-72, Cl. 49-181.
Anderson, Richard N.; and Uetrecht, James W., to Crown Controls Corporation. Lift truck safety control. 3,666,052, 5-30-72, Cl. 187-9.
Anderson, Richard N., to Anderson, V. E., Mfg., Co. False window muntin bar structure. 3,686,814, 8-29-72, Cl. 52-456.000.
Anderson, Richard W.: *See—*
Frick, Hughie R.; and Anderson, Richard W., 3,679,709.
Anderson, Richard W.; and Frick, Hughie R., to Dow Chemical Company, The. Synthesis of cyanuric fluoride. 3,641,020, 2-8-72, Cl. 260-248.
Anderson, Richard W.; and Frick, Hughie R., to Dow Chemical Company, The. Process for the preparation of polyperfluorocyclobutene. 3,642,753, 2-15-72, Cl. 260-91.5.
Anderson, Richard W.; and Frick, Hughie R., to Dow Chemical Company, The. Cyano containing polyfluoroaromatic compounds. 3,661,967, 5-9-72, Cl. 260-465.
Anderson, Richard W.; and Frick, Hughie R., to Dow Chemical Company, The. Polyperfluorocyclobutadiene. 3,682,876, 8-8-72, Cl. 260-91.500.
Anderson, Richard W.; and Frick, Hughie R., to Dow Chemical Company, The. Perfluorinated ether sulfides. 3,696,154, 10-3-72, Cl. 260-609.00f.
Anderson, Robert Bernard: *See—*
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Anderson, Robert Du Wayne, to TCI, Inc. Two pin adjustable hitch. 3,664,686, 5-23-72, Cl. 280-490.
Anderson, Robert E.; and Bachman, Augustus W., Jr. Process for bonding preheated thermoplastic film to a dissimilar substrate. 3,660,200, 5-2-72, Cl. 156-306.
Anderson, Robert F.: *See—*
Kovalcik, Vicenter P.; and Anderson, Robert F., 3,639,754.
Anderson, Robert F., to Electro-Craft Corporation. Motor-generator. 3,639,792, 2-1-72, Cl. 310-113. .
Anderson, Robert F. Indicating means for golf club cover and the like. 3,645,022, 2-29-72, Cl. 40-10.
Anderson, Robert F. Portable grilling apparatus. 3,684,087, 8-15-72, Cl. 206-47.00r.
Anderson, Robert F. Machine tools. 3,687,441, 8-29-72, Cl. 269-47.000.
Anderson, Robert F. Set up jack. 3,687,443, 8-29-72, Cl. 269-309.000.
Anderson, Robert F., to Universal Oil Products Company. Hydrogen fluoride alkylation with apparatus having a venturi-shaped chamber. 3,707,580, 12-26-72, Cl. 260-683.480.
Anderson, Robert Frank, to McAnd, Inc. Press brake for ram. 3,633,395, 1-11-72, Cl. 72-22.
Anderson, Robert G., to Chevron Research Company. Hydrocarbyl butanediol disulfate phosphate-free detergent compositions. 3,634,269, 1-11-72, Cl. 252-138.
Anderson, Robert G., to Chevron Research Company. Sulfur-linked linear alkyl vicinal disulfates. 3,651,119, 3-21-72, Cl. 260-458.
Anderson, Robert I., to Brunswick Corporation. Golf tee. 3,633,917, 1-11-72, Cl. 273-195.
Anderson, Robert J., to Andersons, The. Particulate material drying apparatus and method. 3,645,006, 2-29-72, Cl. 34-22.
Anderson, Robert J., to Singer Company, The, mesne. Reflective relay optical system for two-axis deflection. 3,669,522, 6-13-72, Cl. 350-6.000.
Anderson, Robert J., to Anderson, The. Particulate material drying apparatus. 3,701,203, 10-31-72, Cl. 34-170.000.
Anderson, Robert K.; and Mills, Karl D. Compact hand held switching device with insertable switching means. 3,648,001, 3-7-72, Cl. 200-157.
Anderson, Robert K., to Valleylab, Inc. Electrosurgery safety circuit. 3,683,923, 8-15-72, Cl. 128-303.140.
Anderson, Robert K., to Valleylab, Inc. Electrosurgical generator. 3,699,967, 10-24-72, Cl. 128-303.140.
Anderson, Robert L.; and Fromm, Marvin M., to Portec, Inc. High voltage insulated coil and machine utilizing the same. 3,662,199, 5-9-72, Cl. 310-208.
Anderson, Robert V.; and Hagelbarger, David W., to Bell Telephone Laboratories, Incorporated. Keyboard encoding arrangement. 3,675,240, 7-4-72, Cl. 340-365.000.
Anderson, Robert W., to Haveg Industries, Inc. Anti-corona electrical conductor. 3,660,592, 5-2-72, Cl. 174-114.
Anderson, Roger. Apparatus for treating woven plastic bandages used in orthopedic casts. 3,693,587, 9-26-72, Cl. 118-304.000.
Anderson, Roger E.: *See—*
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Anderson, Ronald A.; and Whitten, Frank R., to Schlumberger Technology Corporation. Formation-sampling apparatus. 3,653,436, 4-4-72, Cl. 166-100.
Anderson, Ronald E.: *See—*
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Anderson, Roy E.; and Merigo, Miguel A., to General Electric Company. Mobile locator system for metropolitan areas. 3,680,121, 7-25-72, Cl. 343-112.0tc.
Anderson, Scott. Process relating to ultra-pure metal halide particles. 3,676,534, 7-11-72, Cl. 264-9.000.
Anderson, Stanley E.: *See—*
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Anderson, Stanley R.; Bryant, Richard W.; and Tu, George K., to Cogar Corporation. Dynamic MOS memory array timing system. 3,684,897, 8-15-72, Cl. 307-208.000.
Anderson, Sture, to Allmanna Svenska Elektriska Aktiebolaget. Device for paper machines. 3,701,933, 10-31-72, Cl. 318-7.000.
Anderson, Sven; and Lombardo, Anthony, to Duplan Corporation, The, mesne. Belt looper apparatus. 3,699,907, 10-24-72, Cl. 112-121.270.
Anderson, Tage O.: *See—*
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United States of America, National Aeronautics and Space Administration, 3,662,337.
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Anderson, Terry P.; and Parker, Fred W., to Du Pont de Nemours, E. I., and Company. Process for preparing a thermosetting acrylic enamel modified with cellulose acetate butyrate. 3,676,377, 7-11-72, Cl. 260-15.000.
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Anderson, Theodore C.; Baum, Roger D.; Favin, David L.; and Rugo, John J., to Bell Telephone Laboratories, Incorporated. Method and apparatus for dynamic testing of echo suppressors in telephone trunk systems. 3,637,954, 1-25-72, Cl. 179-175.31.
Anderson, Thomas A.: *See—*
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Anderson, Thomas A., to Westinghouse Brake and Signal Company Limited. Semiconductor having a transistor, a thristor and a diode in one body. 3,693,054, 9-19-72, Cl. 317-235.000.
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Vincent, Gerald G.; and Anderson, Thomas E., 3,642,682.
Vincent, Gerald G.; and Anderson, Thomas E., 3,652,511.
Anderson, Thomas E., to General Electric Company. Metal oxide varistor polyphase transient voltage suppressor. 3,693,053, 9-19-72, Cl. 317-231.000.
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Anderson, Richard N., 3,686,814.
Anderson, Vernon A., to United States of America, Navy. Power amplifier. 3,636,380, 1-18-72, Cl. 307-261.
Anderson, Victor F., to Shell Oil Company. Metal core plastic chair. 3,639,001, 2-1-72, Cl. 297-445.
Anderson, Victor F., to Shell Oil Company. Module frames for standardized upholstery type furniture and method of constructing and assembling same. 3,658,382, 4-25-72, Cl. 297-445.
Anderson, Victor F., to Shell Oil Company. Bipartite tubular molded synthetic resin furniture part with internal reinforcement. 3,698,150, 10-17-72, Cl. 52-73.000.
Anderson, Vincent R.: *See—*
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Anderson, W. E., Inc.: *See—*
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Anderson, Wallace E.; Krall, Albert D.; and Syeles, Albert M., to United States of America, Navy. Series electrical, parallel thermal gunn device. 3,697,831, 10-10-72, Cl. 317-235.00r.
Anderson, Warren A.; Matheson, Wilfrid G.; and Strock, Lester W., to Sylvania Electric Products, Inc. Method of making non-sag filaments for electric lamps. 3,649,224, 3-14-72, Cl. 29-182.5.
Anderson, Warren Gregory, to American Standard, Inc. Ceramic sanitary ware resembling natural stone or marble. 3,634,179, 1-11-72, Cl. 161-19.
Anderson, William A.: *See—*
Brown, Robert H.; Anderson, William A.; and King, William, 3,674,448.
Anderson, William C.: *See—*
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Anderson, William G. Invalid lifting apparatus. 3,677,424, 7-18-72, Cl. 214-77.000.
Anderson, William G. Cup dispenser with revolving adapter. 3,701,457, 10-31-72, Cl. 221-120.000.
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Anderson, William S., to Shell Oil Company. 1-Methylcyclopropene copolymers. 3,644,301, 2-22-72, Cl. 260-78.5.
Anderson, William S., to Shell Oil Company. Block copolymers as viscosity index improvers for lubricating oils. 3,668,125, 6-6-72, Cl. 252-59.
Anderson, William S.; and Bucher, Foster L. Conveyor structure. 3,679,050, 7-25-72, Cl. 209-84.000.
Anderson, Willis H.: *See—*
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Anderson, Willis H.; and Graddy, Willard E., to General Motors Corporation. Combination lighting switch mechanism. 3,691,323, 9-12-72, Cl. 200-4.000.
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Anderson, Wilmer C.; and Windebank, Robert W., to General Time Corporation. Electret motors capable of continuous rotation. 3,696,258, 10-3-72, Cl. 310-5.000.
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Andersson, Anders R.; and Virsberg, Lars-Goran, to Allmanna Svenska Elektriska Aktiebolaget. Rotating electrical machine with means for preventing discharge form coil ends. 3,670,192, 6-13-72, Cl. 310-196.000.
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Andersson, Arne Hilding; and Duren, Lennart Axel. Control means for electric tools. 3,691,437, 9-12-72, Cl. 318-118.000.
Andersson, Artur Lennart, to Aktiebolaget Armerad Betong. Arrangements in sliding forms. 3,663,132, 5-16-72, Cl. 25-131.0sb.
Andersson, Bengt Ivar, to AB C. J. Wennbergs Mekaniska Verkstad. Apparatus for electrolytic surface treatment. 3,650,935, 3-21-72, Cl. 204-206.
Andersson, Curt Erik Ingvar, to Kockum Soderhamn AB. Arrangement for collecting material and removing it perpendicularly to its longitudinal direction. 3,655,073, 4-11-72, Cl. 214-16.
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Andersson, Karl Ivan. Exchangeable grease gun tip. 3,669,220, 6-13-72, Cl. 184-105.00c.
Andersson, Nils Eric: *See—*
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Andersson, Nils Eric; and Farkas, Tibor, to Allmanna Svenska Elektriska Aktiebolaget. Semiconductor device. 3,649,738, 3-14-72, Cl. 174-15.
Andersson, Per Ulf. Load handling mechanism. 3,687,300, 8-29-72, Cl. 214-1.00q.
Andersson, Per-Erik; and Bergholm, Carl Arne, to Svenska Cellulosa Aktiebolaget. Process and device for recovering sulfur dioxide from waste sulfite liquor. 3,675,707, 7-11-72, Cl. 159-20.000.
Andersson, Rolf. Smoke or gas producing composition. 3,671,456, 6-20-72, Cl. 252-305.
Andersson, Rolf Urban; and Persson, Lennart Gerhard, to AB Akerlund & Rausing. Carton with capped lid. 3,669,344, 6-13-72, Cl. 229-44.0cb.
Andersson, Sigfrid. Cylindrical pressure vessel. 3,653,434, 4-4-72, Cl. 165-169.
Andersson, Sven A., to Ingeniorsfirman Nils Weibull AB. Arrangements in silos for storing vault-forming materials. 3,672,518, 6-27-72, Cl. 214-17.0db.
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Andler, Richard C.; and Keck, Harley B., to Eastman Kodak Company. Heater control apparatus for packaging machinery. 3,679,518, 7-25-72, Cl. 156-351.000.
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Ando, Kunio; and Oishi, Hideo, to Chugai Seiyaku Kabushiki Kaisha. Fermentation process for the production of L-ornithine. 3,668,072, 6-6-72, Cl. 195-29.000.
Ando, Masao; and Takagi, Hideaki, to Chisso Corporation. Long heat-generating pipe utilizing skin effect of A.C. having one or more impedance elements in the circuit. 3,632,975, 1-4-72, Cl. 219-300.
Ando, Masao, to Chisso Corporation. Differential and/or discontinuous heating along pipelines by heat-generating pipes utilizing skin-effect current. 3,632,976, 1-4-72, Cl. 219-301.
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Andrasi, Ferenc: *See—*
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Andre, Elie; and Le Duc, Jean-Marc, to U.S. Philips Corporation, mesne. Method of crystallizing a binary semiconductor compound. 3,632,431, 1-4-72, Cl. 117-201.

Andre, Eugene R.; and Rautio, John M. Hydrostatic holding device. 3,677,559, 7-18-72, Cl. 279-1.00q.

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Torr, Ralph P.; and Nicolaisen, Juncker Zelo, 3,695,046.

Andrea, Alfred. Auto body sectional shaping forms. 3,669,813, 6-13-72, Cl. 161-37.000.

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Andreae, John Hugh, to Standard Telephones and Cables Limited. Code converter. 3,651,516, 3-21-72, Cl. 340-347.

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Andreas, Henry L., to Sci-Tek Computer Center, Inc. Profile determining method and system. 3,705,772, 12-12-72, Cl. 356-5.000.

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Andreasson, Per Arvid; and Persson, Mats Olof, to Elektriska Svetsningsaktiebolaget. Chain making apparatus. 3,701,251, 10-31-72, Cl. 59-16.000.

Andree, George C. Instrument for use in the graphic arts. 3,655,960, 4-11-72, Cl. 240-6.46.

Andree, Klaus: *See—*
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Andree, Walter: *See—*
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Andreen, Brian: *See—*
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Andreev, Leonid Vladimirovich: *See—*
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Andreev, Pavel Alexeevich; Blinov, Konstantin Andreevich; Gremilov, Dmitry Ivanovich; Kanaun, Boris Izrailevich; Kanaev, Andrei Andreevich; Aslanian, Gurken Nazarovich; Paramonov, Pavel Mikhailovich; Panshin, Boris Mikhailovich; Sobolev, Sergei Petrovich; nd Shubenko-Shubin, Leonid Alexandrovich. Inter-stage steam separator-superheater apparatus for turbines operating with saturated steam. 3,693,599, 9-26-72, Cl. 122-483.000.

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Andreini, John; Borchard, Edwin Harley; Pohl, Karl-Heinz; and Puccio, Joseph Anthony, to Bell Telephone Laboratories, Incorporated. Quickimounting hardware. 3,689,115, 9-5-72, Cl. 292-87.000.

Andreini, John; Borchard, Edwin Harley; Pohl, Karl-Heinz; and Puccio, Joseph Anthony, to Bell Telephone Laboratories, Incorporated. Cabinet unit employing a frame which can be moved out of a stationery frame. 3,689,128, 9-5-72, Cl. 312-320.000.

Andreoli, Robert M.; and Stupell, Leo K., to Stupell Industries, Ltd., Inc. Article of jewelry and method of assembling same. 3,688,426, 9-5-72, Cl. 40-140.000.

Andres, John P., to Tenneco Inc. Multi-pass muffler. 3,651,888, 3-28-72, Cl. 181-53.

Andres, Karlheinz; Brochhagen, Franz Karl; Wunderer, Anton; and Fulber, Josef, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane catalyst. 3,645,927, 2-29-72, Cl. 260-2.5.

Andres, Rudolf: *See—*
Breitschwerdt, Werner; Andres, Rudolf; and Busch, Gerhard, 3,671,994.
Wilfert, Karl; and Andres, Rudolf, 3,683,717.

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Andres, Rudolf; and Moeller, Harmann, to Daimler-Benz Aktiengesellschaft. Locking system for window lifters actuated by an auxiliary force. 3,687,215, 8-29-72, Cl. 180-111.000.

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Andres, Rudolf, to Daimler-Benz Aktiengesellschaft. Installation for indicating the closing condition of vehicle doors, especially of motor vehicle doors. 3,697,943, 10-10-72, Cl. 340-520.000.

Andresen, Donald D. Assembled overhead door unit. 3,680,259, 8-1-72, Cl. 49-206.000.

Andresen, Jens N.: *See—*
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Andresen, Otto: *See—*
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Andresen, Rolf; Fiorino, Benjamin C.; and Niccore, Fred W., to International Business Machines Corporation. Method and apparatus for detecting errors read from moving-magnetic-storage device with digital interface. 3,670,304, 6-13-72, Cl. 340-146.10f.

Andreski, Mitchell. Method of forming seamless flooring. 3,690,914, 9-12-72, Cl. 117-26.000.

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Andress, Harry J., Jr.; and Capowski, Julius, to Mobil Oil Corporation. Liquid hydrocarbon fuels containing alkylamine salts. 3,652,242, 3-28-72, Cl. 44-71.

Andress, Harry J., Jr., to Mobil Oil Corporation. Fuels and lubricants containing aminoguanidine antioxidants. 3,655,560, 4-11-72, Cl. 252-51.5.

Andress, Harry J., Jr., to Mobil Oil Corporation. Liquid hydrocarbon compositions containing reaction products of amine derivatives of 1-olefin /maleic anhydride copolymers and methyl vinyl ether-maleic anhydride copolymers as anti-static agents. 3,677,724 7-18-72, Cl. 44-62.

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Andress, William I.: *See—*
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Andrew Corporation: *See—*
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Andrew, Eugene A.; and Halverson, Henry J., to Olin Corporation. Manufacture of globular powder. 3,679,782, 7-25-72, Cl. 264-3.00e.

Andrew, Frank J.: *See—*
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Andrew, Herbert Francis; and Higginbottom, Robert, to Imperial Chemical Industries Limited. Copper containing disazo triazine dyes. 3,646,002, 2-29-72, Cl. 260-146.

Andrew, Herbert Francis; and Stead, Cecil Vivian, to Imperial Chemical Industries Limited. Reactive disazo dyestuffs containing triazines. 3,647,778, 3-7-72, Cl. 260-153.

Andrew, Herbert Francis; and Jackson, Neville, to Imperial Chemical Industries Limited. Reactive triazine containing disazo dyestuffs. 3,664,995, 5-23-72, Cl. 260-146.

Andrew, John R., to Columbus Auto Parts Company, The. Ball joint. 3,638,976, 2-1-72, Cl. 287-90.

Andrew, Kenneth F.: *See—*
Gulbrasen, Earl A.; Tallman, Richard L.; Andrew, Kenneth F.; and Buzalski, Bruce T., 3,675,004.

Andrew, Kenneth F.; Tallman, Richard L.; and Gulbransen, Earl A., to Westinghouse Electric Corporation. Photoflash lamp with yttrium combustible filling. 3,672,814, 6-27-72, Cl. 431-95.000.

Andrews, Adlay B.; Coursen, David L.; and Loving, Frank A., Jr., to Du Pont de Nemours, E. I., and Company. Explosive echo ranging device. 3,656,585, 4-18-72, Cl. 185-.5.

Andrews, Alday B.; and Coursen, David L., to Du Pont de Nemours, E. I., and Company. Pulse producing assembly. 3,687,074, 8-29-72, Cl. 102-22.000.

Andrews, Ann; and Andrews, Peter. Hair rollers or hair curlers. 3,653,391, 4-4-72, Cl. 132-40.

Andrews, Bernard, to Leesona Corporation. Balloon breaker. 3,638,415, 2-1-72, Cl. 57-108.

Andrews, Clifton B., to Protectowire Co., The. Warning system with plural identification of signalling stations. 3,701,141, 10-24-72, Cl. 340-287.000.

Andrews, David; and Saucy, Gabriel. 6-Alkyl-substituted tetrahydropyran-2-ols and process for their production. 3,655,695, 4-11-72, Cl. 260-340.5.

Andrews, David, to Ford Motor Company. Adjustable guide connector for Bowden cable. 3,678,964, 7-25-72, Cl. 138-103.000.

Andrews, David; and Saucy, Gabriel. 3-Vinyl-cyclo penta (FM1) benzopyrans. 3,694,463, 9-26-72, Cl. 260-345.200.

Andrews, Donald E.; Heck, Daniel C.; and Pestka, John A., to Illinois Tool Works, Inc. Drawer receptacle. 3,707,318, 12-26-72, Cl. 312-323.000.

Andrews, Donald K.: *See—*
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Andrews, Donald W.; Kessler, Eugene L.; and Newton, Roland A., to Aerojet-General Corporation. Cryogenically cooled drill. 3,650,337, 3-21-72, Cl. 175-17.

Andrews, Earl C., to Hardinge Brothers, Inc. Machine tool feed chuck. 3,666,278, 5-30-72, Cl. 279-41.

Andrews, Edwin R.: *See—*
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Andrews, Francis W.; and Sussman, Philip S., to Mark-Tex Corporation. Drawing support assembly. 3,633,541, 1-11-72, Cl. 118-503.

Andrews, Francis W.; Sussman, Philip S.; and Barlow, Sidney D., to Mark-Tex Corporation. Compound tool for use in textile painting. 3,678,521, 7-25-72, Cl. 7-1.00g.

Andrews, Fred R.: *See—*
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Andrews, Harry N.; Patterson, John F.; and Wilson, John F., to Westinghouse Electric Corporation. Fuel element for a nuclear reactor. 3,647,622, 3-7-72, Cl. 176-68.

Andrews Industries: *See—*
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Andrews, James A., to Spyder Manufacturing Company, Inc. Maintenance vehicle. 3,642,086, 2-15-72, Cl. 180-66.

Andrews, James Dair: *See—*
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Andrews, John R., Jr., to Honeywell Inc. Interconnection bus system. 3,657,478, 4-18-72, Cl. 178-63.

Andrews, John R., Jr., to Honeywell Inc. Transmission line series termination network for interconnecting high speed logic circuits. 3,660,675, 5-2-72, Cl. 307-208.

Andrews, John S., to Robertson, H. H., Company. Spray generator. 3,698,695, 10-17-72, Cl. 261-24.000.

Andrews, John W.; Schmiel, William J.; Inman, Gene E.; and Jones, James Phillip, to Railway Supply & Mfg. Co., The. Compact textile tow and method for forming same. 3,643,416, 2-22-72, Cl. 57-142.

Andrews, La Vern A.; and Muchlinski, Donald A., to Hughes Aircraft Company. System for automatic initiation of target tracking in track-while-scan radar. 3,699,573, 10-17-72, Cl. 343-7.300.

Andrews, Laurence M.: *See—*
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Andrews, Lawrence F. Method and apparatus for improved orthodontic bracket and arch wire technique. 3,660,900, 5-9-72, Cl. 32-14.

Andrews, Loring B.: *See—*
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Andrews, Malcolm C. Ash tray. 3,635,225, 1-18-72, Cl. 131-236.

Andrews, Mark B., Sr. Machine and method for adding left threads to right threaded bolt. 3,680,971, 8-1-72, Cl. 408-1.000.

Andrews, Maurice. Remote alarm system. 3,703,714, 11-21-72, Cl. 340-224.000.

Andrews, Norwood H. Jet and anvil comminuting apparatus and method. 3,688,991, 9-5-72, Cl. 241-5.000.

Andrews, Ottie H. Legal load indicator for a liquid tanker. 3,693,738, 9-26-72, Cl. 177-141.000.

Andrews, Paul A.; and Coyle, Bernard T., Jr., to Polaroid Corporation. Identification cards having diffusion transfer laminations. 3,644,116, 2-22-72, Cl. 96-29.

Andrews, Peter: *See—*
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Andrews, Peter. Surface, material and health protective device. 3,653,459, 44-72, Cl. 180-69.1.
Andrews, Peter. Surface, material and health protective combination device. 3,669,204, 6-13-72, Cl. 180-69.1.
Andrews, Peter, to Eastman Kodak Company. Cartridge loading motion picture projection apparatus. 3,670,989, 6-20-72, Cl. 242-192.000.
Andrews, Ray, to Hercules Incorporated. Wax-resin-hydroxypropyl cellulose thermofluid vehicles. 3,639,310, 2-1-72, Cl. 260-17.
Andrews, Robert S., Jr.; and McDaniels, William C., to N L Industries, Inc. Lignite products and compositions thereof. 3,671,427, 6-20-72, Cl. 252-8.50m.
Andrews, Robin Desmond Radcliffe. Material-treatment machines. 3,650,482, 3-21-72, Cl. 241-153.
Andrews, Russell W.; Kolesar, Paul M.; Payne, Robert M.; and Posner, Howard G., to Stewart-Warner Corporation. Traveling message display. 3,651,511, 3-21-72, Cl. 340-324.
Andrews, Thomas W.: *See*—
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Andrews, Thomas W. Electric game board with indicator. 3,645,529, 2-29-72, Cl. 273-108.
Andrews, Timothy Douglas; Short, Glyn David; and Thomas, Ieuan, to Imperial Chemical Industries Limited. Bipyridinium compound photosensitizer. 3,671,250, 6-20-72, Cl. 96-88.000.
Andrews, Timothy Douglas; Short, Glyn David; and Thomas, Ieuan, to Imperial Chemical Industries Limited. Radiation sensitive materials containing bipyridilium salt of a strong acid. 3,697,528, 10-10-72, Cl. 260-294.900.
Andrews, Weldon R., to Sealth Aero Marine Company. Aircraft panels with precisely adjustable and easy action spring toggle latch. 3,659,886, 5-2-72, Cl. 292-78.
Andrews, Willard H. Picture frame attachment. 3,680,239, 8-1-72, Cl. 40-152.100.
Andrewsen, Harry W.: *See*—
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Andris, Fred A. Automatic volumetric chemical mixer. 3,697,052, 10-10-72, Cl. 259-8.000.
Andriussi, Francois Georges, to Societe de Wendel et Compagnie. Safety rail for roads and motorways. 3,705,709, 12-12-72, Cl. 256-13.100.
Androkitis, John L., to Armstrong Cork Company. Article alignment device on a packaging machine. 3,655,078, 4-11-72, Cl. 214-6.
Andros, Arthur A., to Monsanto Europe S.A., mesne. Plastic containers. 3,674,512, 7-4-72, Cl. 99-178.000.
Androsiglio, Raphael-Pierre. Sole for footwear having means to ventilate the footwear interior. 3,670,429, 6-20-72, Cl. 36-3.00b.
Andruchiw, Roman. Method of illuminating preselected areas of a display. 3,675,997, 7-11-72, Cl. 353-28.000.
Andrus, Elwin A.: *See*—
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Andrus, Paul G., to Xerox Corporation. Development apparatus. 3,696,785, 10-10-72, Cl. 118-637.000.
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Aneja, Rajindra, to Lever Brothers Company. Process for separating phosphatides. 3,704,254, 11-28-72, Cl. 260-403.500.
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Anfruns, Luis Sentis. Sock ironing device. 3,670,932, 6-20-72, Cl. 223-75.000.
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Angele, Henry, to Etablissements Valois. Spring-biased tilting valve. 3,635,379, 1-18-72, Cl. 222-402.22.
Angele Wilhelm; and Martineck, Hans G., to United States of America, National Aeronautics and Space Administration. Electrical connector. 3,670,290, 6-13-72, Cl. 339-75.0mp.
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Angeleri, Emanuele; and Balugani, Fabio, to Societa Italiana Telecomunicazioni Siemens S.p.A. Digital frequency modulator. 3,659,226, 4-25-72, Cl. 332-9.
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Angeloni, Paul. Vehicle speed monitoring systems. 3,680,043, 7-25-72, Cl. 340-33.000.
Angelov, Stefan Hristov; and Hristova, Snejanka Vladimirova, to Zentralen Institut po Istchislitelna Technika. Coded decimal multiplication by successive additions. 3,644,724, 2-22-72, Cl. 235-154.
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Angelovich, Stephen J., to Mallory, P. R., & Co., Inc. Leak proof closure seal for battery. 3,694,267, 9-26-72, Cl. 136-133.000.
Angelstrand, Borje; Ragnar, Mostrom; and Yngvesson, Henry, to Saab-Scania Aktiebolag. Means for confining a translatable member to straight line motion. 3,690,642, 9-12-72, Cl. 269-56.000.
Angelucci, Romano, to Erba, Carlo, S.p.A. Process for stabilizing preparation of interfering viruses. 3,674,864, 7-4-72, Cl. 424-90.
Angelucci, Thomas L., to Kulicke and Soffa Industries, Inc. Heated semiconductor bonding tool. 3,641,304, 2-8-72, Cl. 219-85.
Angelucci, Thomas L.; and Kulicke, Frederick W., Jr., to Kulicke and Soffa Industries, Inc. Bonding tool for through the tool observation bonding and method of bonding. 3,696,229, 10-3-72, Cl. 219-85.000.
Anger, Ernest G.; Richards, Giles J.; Bloodgood, John F.; and Geiger, Roy J., to Square D Company. Positioning control system for a machine that work on a moving parting. 3,686,556, 8-22-72, Cl. 318-595.000.
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Anglade, Carlos, Jr. Frame and building structure and method of constructing same. 3,676,964, 7-18-72, Cl. 52-86.000.
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Angner, Ronald Joseph; and Koscinski, Anthony, to Bell Telephone Laboratories, Incorporated. Selective signaling system. 3,651,274, 3-21-72, Cl. 179-19.
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Angola Wire Products, Inc.: *See—*
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Angold, Raymond H. Cooking food under pressure. 3,649,290, 3-14-72, Cl. 99-1.
Angold, Raymond H. Apparatus for filtering cooking liquid. 3,667,613, 6-6-72, Cl. 210-336.000.
Angst, Kurt; and Tunzini, Marco. Waste cone for a spindle. 3,695,018, 10-3-72, Cl. 57-34.00p.
Angst, Walter, to Meteor AG. Wire coiling apparatus. 3,672,409, 6-27-72, Cl. 140-92.200.
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Angus, Alexander C., to McGraw-Edison Company. Quiet turn-on circuit for carbon microphones. 3,706,852, 12-19-72, Cl. 179-1.00a.
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Anhalt, John W.; and Maston, James W., to International Telephone and Telegraph Corporation. Termination of flat cables. 3,639,891, 2-1-72, Cl. 339-99.
Anhalt, John W.; Maston, James W.; and Selvin, Gerald J. Terminal junction system. 3,656,091, 4-11-72, Cl. 339-198.
Anhalt, John W.; and Morrison, Robert M., to International Telephone and Telegraph Corporation. Electrical contact insertion-extraction tool. 3,676,912, 7-18-72, Cl. 29-203.00h.
Anhalt, John William, to International Telephone and Telegraph Corporation. Overriding latch mechanism. 3,699,632, 10-24-72, Cl. 29-203.00h.
Anhalt, Jonn W.; Arnold, Bruce K.; and Sugar, Joseph, to International Telephone and Telegraph Corporation. Electrical connector contact retention assembly. 3,638,165, 1-25-72, Cl. 339-59.
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Anke, Rudolph G.; and Moyer, James D., to North American Rockwell Corporation. Pattern mechanism for knitting machines. 3,698,210, 10-17-72, Cl. 66-155.000.

Ankenbrand, Fritz; Herrmann, Kurt; and Wilke, Werner G., to Agfa-Gevaert Aktiengesellschaft. Process for preparing magnetic tapes. 3,681,138, 8-1-72, Cl. 117-238.000.

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Anker, Charles A., to General Mills, Inc. Method of preparing keratin containing films and coatings. 3,642,498, 2-15-72, Cl. 99-166.

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Annand, Robert R.; Redmore, Derek; and Rushton, Brian M., to Petrolite Corporation. Use of cyclic amidine polymers as oil-in-water demulsifiers. 3,647,711, 3-7-72, Cl. 252-344.

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Anneberg, Vilhelm; Clemmensen, Ellen; Gudmandsen, Robert; and Scheibel, Axel, to Fonofilm Industri A/S. Magnetic stereophonic phonograph pickup. 3,700,829, 10-24-72, Cl. 179-100.41k.

Anner, Georg; and Meystre, Charles, to Ciba-Geigy Corporation. Esters of steroid-17-carboxylic acids. 3,636,010, 1-18-72, Cl. 260-397.1.

Anner, Georg; and Wieland, Peter, to Ciba Corporation. 4-Oxo-19-nor-A-homo-steroid dienes and a process for their manufacture. 3,636,055, 1-18-72, Cl. 260-340.9.

Anner, Georg; and Meystre, Charles, to Ciba Corporation. 6-Fluoro steroids of the androstane series. 3,641,069, 2-8-72, Cl. 260-397.45.

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Anner, Georg; and Kalvoda, Jaroslav. Process for preparing 18-cyano-pregnane compounds. 3,684,674, 8-15-72, Cl. 204-158.00r.

Anner, Georg, to Ciba-Geigy Corporation. 21-Mercapto-steroids of the pregnane series. 3,687,942, 8-29-72, Cl. 260-239.550.

Annessa, Domenico M. Frame for a musical instrument and method of making same. 3,699,837, 10-24-72, Cl. 84-291.000.

Annesser, Richard J.; and Balogh, Stephen A., to Chevron Research Company. Catalytic cracking. 3,699,037, 10-17-72, Cl. 208-120.000.

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Annis, Robert E., to General Motors Corporation. Transmission control. 3,633,439, 1-11-72, Cl. 74-751.

Annis, Rupert E., Jr.; and Kyritsis, William T., to USM Corporation. Apparatus for injection molding articles of foam material. 3,674,401, 7-4-72, Cl. 425-244.000.

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Ansala, Vaino Toivo. Cylinder lock. 3,699,790, 124-72, Cl. 70-364.00r.

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Anschutz, Erhard, to Feldmuhle Aktiengesellschaft. Tool arrangement for a machine tool. 3,643,309, 2-22-72, Cl. 29-96.

Ansel, Ferman L., to Denver Brick and Pipe Company. Mixing and aerating apparatus for plastics. 3,650,510, 3-21-72, Cl. 259-9.

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Anton-Tay, Fernando. Therapeutic process using melatonin. 3,642,994, 2-15-72, Cl. 424-274.
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Antonie, Ronald L., to Autotrol Corporation. Apparatus for treating sewage. 3,704,783, 12-5-72, Cl. 210-151.000.
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Antypas, George A., to Varian Associates. Multilayered III-V photocathode having a transition layer and a high quality active layer. 3,696,262, 10-3-72, Cl. 313-94.000.
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Anzuino, Giuseppe, to Colgate-Palmolive Company. Modification of reduced keratinous substrates with a vinyl monomer. 3,676,550, 7-11-72, Cl. 424-71.000.
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Aoki, Chihiro; and Hirata, Takashi, to Elmo Company Limited. Sonic focusing system for projectors. 3,650,615, 3-21-72, Cl. 353-101.
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Aoki, Kenneth K.; and McMaster, Arnold L., to BASF Wyandotte Corporation. Process for the preparation of hexachlorocyclopentadiene. 3,649,699, 3-14-72, Cl. 260-648.
Aoki, Masao, to Mitsubishi Denki Kabushiki Kaisha. System for preventing collision of vehicles. 3,661,459, 5-9-72, Cl. 356-4.
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Aoki, Masaru, to Tomy Kogyo Co., Ltd. Toy vehicle and playing board. 3,693,291, 9-26-72, Cl. 46-202.000.
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Armstrong, Thaddeus J.; and Ohlhaver, Jon, to Continental Can Company, Inc. Electrically heated compound molding machine. 3,635,619, 1-18-72, Cl. 425-112.
Armstrong, Thomas R., to Honeywell Information Systems Inc. Digital frequency divider. 3,696,402, 10-3-72, Cl. 340-347.0dd.
Armstrong, Thomas S.: *See—*
Christian, Daniel T.; Look, Melvin; Nobell, Albert; and Armstrong, Thomas S., 3,654,194.
Armstrong, William A.: *See—*
Titchenal, Oliver R.; and Armstrong, William A., 3,699,746.
Armstrong, William S., Jr.; Edwards, Webster H.; Laird, Joseph P.; and Vining, Roy H., to Du Pont de Nemours, E. I., and Company. Method and apparatus for instrumentally shading metallic paints. 3,690,771, 9-12-72, Cl. 356-176.000.
Armstrong-Kropp Development Corporation: *See—*
Kropp, Willis A., 3,636,949.
Arnaud, Gaston, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Fuel feed devices for internal engines. 3,688,756, 9-5-72, Cl. 123-139.0aw.
Arnaud, Jose L., to FMC Corporation. Process for leaching strontium sulfide black ash. 3,701,637, 10-31-72, Cl. 23-312.00r.
Arnaudin, Edwin H., Jr.; and Morrison, William F., to Anaconda Wire and Cable Company. Shielded cable. 3,666,877, 5-30-72, Cl. 174-115.
Arnaudin, Edwin Henry, Jr.: *See—*
Stauffer, John Dale; Arnaudin, Edwin Henry, Jr.; and Chrisman, Willis Lee, 3,645,656.
Arndt, Allen L.; and Kaszynski, Albert Z., to Sperry Rand Corporation. Keyboard apparatus with moisture proof membrane. 3,657,492, 4-18-72, Cl. 200-5.
Arndt, Charles J., to Harsco Corporation. Apparatus for placing concrete mix or the like. 3,675,762, 7-11-72, Cl. 198-233.000.
Arndt, Friedrich: *See—*
Boroschewski, Gerhard; Arndt, Friedrich; and Rusch, Reinhart, 3,692,820.
Arndt, George D. System for improving signal-to-noise ratio of a communication signal. 3,694,753, 9-26-72, Cl. 325-373.000.
Arndt, Hans F., Maschinenbau: *See—*
Magin, Berthold, 3,643,341.
Arndt, Heinz-Herbert; Schadel, Jurgen; and Muller, Dieter, to Siemens Aktiengesellschaft. Three layer metallic contact strip at a semiconductor structural component. 3,633,076, 1-4-72, Cl. 317-234.
Arndt, Heinz-Herbert; and Nosch, Edwin, to Licentia Patent-Verwaltungs-G.m.b.H. Device for the epitaxialy deposition of semiconductor material. 3,704,987, 12-5-72, Cl. 118-48.000.
Arndt, Peter Joseph; Fink, Herbert; Moroff, Helmut; Determann, Hermine; and Grimm, Reinhard, to Rohm Gesellschaft mit beschrankter Haftung. Preparation of acrylate foams. 3,663,462, 5-16-72, Cl. 260-2.5.
Arndt, Richard H., to General Electric Company. Current and voltage monitoring module for electric conductor terminations. 3,657,650, 4-18-72, Cl. 324-126.
Arndt, Robert H., to Ralston Purina Company. Method of preparing a simulated skim milk. 3,642,492, 2-15-72, Cl. 99-64.
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Arne, Christian, to Chicago Bridge & Iron Company. Stress oriented corrugations. 3,706,627, 12-19-72, Cl. 161-131.000.
Arneberg, Don J.: *See—*
Stallman, James E.; Schlitt, James J.; Puetz, Jordan F.; and Arneberg, Don J., 3,643,187.
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Arnell, Alvin, to Commercial Envelope Manufacturers, Inc. Sheet feeding device. 3,674,255, 7-4-72, Cl. 271-29.000.
Arnell, Anders Bertil: *See—*
Aronsson, Lars Bertil; Arnell, Anders Bertil; and Molitor, Ulf W., 3,667,393.
Arnemann, Gerhard, to Fordertechnik Hamburg Harry Lassig. Apparatus for loading sacks onto pallets. 3,651,962, 3-28-72, Cl. 214-6.
Arnemann, Gerhard. Method of stacking and destacking barrels. 3,705,657, 12-12-72, Cl. 214-152.000.
Arnesen, Bernhard A. Hair curling device. 3,698,402, 10-17-72, Cl. 132-37.000.
Arneson, Edwin L., to Federal Paper Board Company, Inc. Carrier package. 3,653,503, 4-4-72, Cl. 206-65.
Arneson, Edwin L., to Federal Paper Board Company, Inc. Method and apparatus for packaging bottled products in basket-style carriers. 3,698,151, 10-17-72, Cl. 53-26.000.
Arneson, Howard M., to Arneson Products, Inc. Swimming pool chlorinator. 3,684,460, 8-15-72, Cl. 23-267.00a.
Arneson, Lawrence E. Container package and method and apparatus for assembling same. 3,643,796, 2-22-72, Cl. 206-65.
Arneson Products, Inc.: *See—*
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Arneth, Reinhold: *See—*
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Arnett, Charles J.; and Hoover, James M. (St. Chamond, Firminy, St. Etienne Jacob-Holtzer). Thermocouple input temperature sensing circuitry. 3,650,154, 3-21-72, Cl. 73-361.
Arnett, Joseph W., Jr.; and Norwood, David W., to Concorde Fibers, Inc. Melt spinning. 3,696,184, 10-3-72, Cl. 264-178.00f.
Arnett, Robert W. Expansible reveal with frontal tear strip for plaster walls. 3,667,174, 6-6-72, Cl. 52-100.000.
Arney, William C., Jr., to Union Carbide Corporation. Flame resistant latex and emulsion systems and the products formed therefrom. 3,704,273, 11-28-72, Cl. 260-29.40r.
Arnhold, Rudolf: *See—*
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Arni, Urs: *See—*
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Arning, Klaus H.; and Rumpf, Robert J., to Ford Motor Company. Method of manufacturing a motor vehicle. 3,694,890, 10-3-72, Cl. 29-428.000.
Arnold, Benjamin Harry; Fildes, Robert Anthony; and Gilbert, David Arthur, to Glaxo Laboratories Limited. Cephalosporin derivatives. 3,658,649, 4-25-72, Cl. 195-29.
Arnold, Bruce C.; Auman, John T., Jr.; Kinnison, Charles G.; and Lantz, James E., to Twin Disc, Incorporated. Electrical control apparatus for an engine and variable transmission apparatus. 3,692,157, 9-19-72, Cl. 192-98.000.
Arnold, Bruce K.: *See—*
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Arnold, Carroll H., to Wain-Roy Company, Inc. Lifting and excavating apparatus. 3,666,124, 5-30-72, Cl. 214-138.000.
Arnold, Carter H. Rope gripping device. 3,669,223, 6-13-72, Cl. 188-188.000.
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Arnold, Donald R.; and Sousa, Anthony A., to Union Carbide Corporation. Mildewcidal composition and method of use. 3,636,217, 1-18-72, Cl. 424-263.
Arnold, Donald R.; Trecker, David J.; and Stehr, Charles E., to Union Carbide Corporation. Polycyclic dimercaptans. 3,644,532, 2-22-72, Cl. 260-609.
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Arnold, Emmons S., to Owens-Illinois, Inc. Refrigerator clip. 3,666,228, 5-30-72, Cl. 248-250.000.
Arnold, Eugene W.; and Hasenwinkle, Earl D., to Weyerhaeuser Company. Apparatus and technique for harvesting plants rooted in the ground. 3,693,721, 9-26-72, Cl. 171-61.000.
Arnold, Evelyn S.: *See—*
Arnold, Lucius P., 3,640,025.
Arnold, Floyd L.; and Patmore, James R., to Electronic Associates, Inc. Audio/visual teaching device. 3,691,650, 9-19-72, Cl. 35-8.00a.
Arnold, Fred E.; and Van Deusen, Richard L., to United States of America, Air Force. Method of preparing films and coatings of heterocyclic-aromatic polymers. 3,632,414, 1-4-72, Cl. 117-124.
Arnold, Fred E., to United States of America, Air Force. Fused ring tetraamino compound the tetratosylate thereof, and their synthesis. 3,702,326, 11-7-72, Cl. 260-250.00r.
Arnold, Frederik Alexander Nicolaas Gerardus: *See—*
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Arnold, George R.; and Rosiello, Raymond S., to Ormco Corporation. Method of casting parts having dimensionally critical apertures. 3,707,152, 12-26-72, Cl. 164-45.000.
Arnold, Guenther, to General Motors Corporation. Steering gear assembly. 3,665,783, 5-30-72, Cl. 74-498.000.
Arnold, Herbert: *See—*
Scholl, Hermann; Norbert, Stuttgart; Gansert, Willi; and Arnold, Herbert, 3,678,904.
Arnold, Herbert; Brock, Norbert; Kuhas, Engelbert; Lenke, Dieter; and Pohle, Hans, to Asta-Werke Aktiengesellschaft, Chemische Fabrik. Basic α-nortricyclyl-(3)-benzyl ether, and the salts thereof. 3,686,311, 8-22-72, Cl. 260-570.600.
Arnold, James F., to Hydro Tech Services, Inc. Connector for tubular members. 3,704,033, 11-28-72, Cl. 285-18.000.
Arnold, John L. Sign display apparatus. 3,680,238, 8-1-72, Cl. 40-132.00r.

Arnold, John W.: *See—*
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Arnold, Karl: *See—*
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Arnold, Kurt Herbert, to Valcor Engineering Corporation. Pump. 3,645,653, 2-29-72, Cl. 418-56.
Arnold, L. P.: *See—*
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Matthews, Charles Woodrow; and Arnold, Loren Glenn, 3,643,748.
Arnold, Lucius P.; deceased (by Arnold, L. P.; and Arnold, Evelyn S.; heirs), to Williamson, J. E. (Johnnie). Workpiece advancing means. 3,640,025, 2-8-72, Cl. 51-215.
Arnold, Nancy Hazlett: *See—*
Mc Cormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, 3,634,500.
Mc Cormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, 3,636,081.
McCormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, 3,636,063.
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Arnold, Richard B.; and Smith, Dallas F., to General Electric Company. Method and apparatus for forming shaped insulators of different lengths. 3,643,317, 2-22-72, Cl. 29-205.
Arnold, Richard B., to General Electric Company. Coil developing apparatus. 3,672,027, 6-27-72, Cl. 29-205.000.
Arnold, Richard B., to General Electric Company. Method for inserting insulators and coil turns into the slots of a magnetic core. 3,672,039, 6-27-72, Cl. 29-596.000.
Arnold, Richard B., to General Electric Company. Method of developing coils of a coil group for a magnetic core. 3,672,040, 6-27-72, Cl. 29-596.000.
Arnold, Richard B., to General Electric Company. Method and apparatus for inserting coil turns into the slots of a magnetic core. 3,672,041, 6-27-72, Cl. 29-596.000.
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Arnold, Richard F.; Dauber, Philip S.; Freiman, Charles V.; Robelen, Russell J.; and Wierzbicki, John R., to International Business Machines Corporation. Interstorage transfer mechanism. 3,670,307, 6-13-72, Cl. 340-172.500.
Arnold, Richard F.; Dauber, Philip S.; and Sussenguth, Edward H., to International Business Machines Corporation. Pseudo-random code implemented variable block-size storage mapping device and method. 3,675,215, 7-4-72, Cl. 340-172.500.
Arnold, Robert H.: *See—*
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Arnold, Robert Harry; and Crouch, Cyril Borthwick, to Metal Box Company Limited, The. Sheet feeding apparatus. 3,642,272, 2-15-72, Cl. 271-62.
Arnold, Soodalter. Sleeving apparatus. 3,703,065, 11-21-72, Cl. 53-197.000.
Arnold, Ted A., to Vacu-Blast corporation. Blast-room for abrasive blasting system. 3,672,292, 6-27-72, Cl. 98-33.000.
Arnold, Thomas B.; Byrnes, Eugene B.; and Castoe, Alonzo R., to Atlantic Richfield Company. Oil and gas treatment. 3,702,296, 11-7-72, Cl. 208-341.000.
Arnold, Thomas N. Connection joint for structural members. 3,664,077, 5-23-72, Cl. 52-283.
Arnold, Thomas R. Modular building structure. 3,699,731, 10-24-72, Cl. 52-64.000.
Arnold, Walter; and Wepner, Gunter, to Akzona Incorporated. Apparatus for cutting spool wound thread into staple fibers. 3,648,554, 3-14-72, Cl. 83-169.
Arnold, Wayne E., to Westinghouse Electric Corporation. Computer controlled wiring network test system. 3,705,349, 12-5-72, Cl. 324-73.00r.
Arnold, William Charles. Heald frame. 3,693,667, 9-26-72, Cl. 139-91.000.
Arnold, William O., Jr., to Union Insulating Company, Inc. Method for attaching bracket means to an imperforate support. 3,673,670, 7-4-72, Cl. 29-432.200.
Arnone, Michael P.: *See—*
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Arnone, Michael P., to Kreisler Manufacturing Corporation. Display package for watchbands or the like. 3,648,831, 3-14-72, Cl. 206-45.14.
Arnosky, Joseph E.: *See—*
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Arnot, Alfred Erwin Reginald. Device for working a cylindrical work-piece. 3,651,569, 3-28-72, Cl. 30-95.
Arnoux, Michel, to C.I.T.-Compagnie Industrielle des Telecommunications. Dialing system. 3,657,484, 4-18-72, Cl. 179-16.
Arnsteiner, Anton. Ski. 3,705,729, 12-12-72, Cl. 280-11.13l.
Arntson, Gary L., to General Motors Corporation. Steering column assembly. 3,702,081, 11-7-72, Cl. 74-492.000.
Arntson, Gary L.; and Rasmussen, Tom, to General Motors Corporation. Steering column assembly. 3,703,106, 11-21-72, Cl. 74-492.000.
Arntz, Hans-Egon: *See—*
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Aron, Edward A.; Griffith, Louis E.; and Tidd, James A., to Graphic Systems, Incorporated. Photocomposing machine with flexible fiber optics scanning member. 3,693,516, 9-26-72, Cl. 95-4.50r.
Aron, Jerome, to Freres, Kuhn, & Cie, Societe en commandite simple. Hay-making machine. 3,650,101, 3-21-72, Cl. 56-370.
Aron-Samuel, Jan Marcel Didier; and Sterne, Jean Jacques. 1,3,5-Triazines. 3,703,514, 11-21-72, Cl. 260-249.900.
Aronberg, Lester, to Lake Chemical Co. Flux for use in soldering of stainless steels. 3,660,127, 5-2-72, Cl. 106-286.
Arond, Lester H., to Polaroid Corporation. Color diffusion transfer film unit containing a temporary barrier for developer restrainers. 3,706,557, 12-19-72, Cl. 96-29.00d.
Arone, Angela: *See—*
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Aronica, Claude S.; and Moulin, Louis, to Pechiney-Progil. Insecticidal compositions of endosulfan in fenitrothion for U.L.V. treatment. 3,671,632, 6-20-72, Cl. 424-218.
Aronoff, Arnold, to Holiday Luggage Mfg. Co., Inc. Luggage case. 3,698,522, 10-17-72, Cl. 190-41.00r.
Aronoff, Edward Israel. Method for treating tubular fabrics. 3,704,151, 11-28-72, Cl. 117-7.000.
Aronoff, Elihu; and Labana, Santokh S., to Ford Motor Company. Tetravinyl-vinyl monomer paint composition and painting process. 3,679,447, 7-25-72, Cl. 106-287.000.
Arons, Gilbert N., to United States of America, Army. Copolymerization of polyacrylic acid within nylon structures. 3,672,975, 6-27-72, Cl. 117-118.000.
Aronsen, Daniel, Jr., mesne: *See—*
Erbil, Ibrahim Hidayet, 3,686,816.
Aronson, Arnold J., to Norton Company. Vacuum coating system with induction heated vaporizing crucibles. 3,657,506, 4-18-72, Cl. 219-10.75.
Aronson, Arthur H.; Lichy, Edward J.; Guess, Clifford A.; and Samways, Norman L., to Jones & Laughlin Steel Corporation. Welded pipe structure of high strength low alloy steels. 3,661,537, 5-9-72, Cl. 29-191.
Aronson, Theodore F., to Perry Industries, Inc., mesne. Method and apparatus for measuring and dispensing predetermined equal amounts of powdered material. 3,656,518, 4-18-72, Cl. 141-1.
Aronson, Theodore F. Child-proof container closure means. 3,679,084, 7-25-72, Cl. 215-9.000.
Aronsson, Lars Bertil; Arnell, Anders Bertil; and Molitor, Ulf W., to Forsvarets Fabriksverk. Electric fuze for shaped-charge missiles. 3,667,393, 6-6-72, Cl. 102-70.2.
Arouete, Jean. Haemostatic apparatus for operations on the head of human beings. 3,659,609, 5-2-72, Cl. 128-325.
Arpajian, Vasken F.: *See—*
Hutchinson, Herman R.; Arpajian, Vasken F.; and Malcomson, Robert S., 3,642,402.
Hutchinson, Herman R.; Arpajian, Vasken F.; and Malcomson, Robert S., 3,695,800.
Arpajian, Vasken F.; and White, Quentin M., to Pennwalt Corporation. Compression molding system. 3,661,485, 5-9-72, Cl. 18-16.
Arpax Company, The: *See—*
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Johnson, George R., 3,655,500.
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Hornig, Lothar; Arpe, Hans-Jurgen; and Boldt, Manfred, 3,651,127.
Hornig, Lothar Heinz; and Arpe, Hans-Jurgen, 3,687,993.

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Arrance, Frank C.; and Rosa, Albert G., to McDonnell Douglas Corporation. Battery separator and method of producing same. 3,647,554, 3-7-72, Cl. 136-145.

Arrance, Frank C., to McDonnell Douglas Corporation, mesne. Battery construction having a honeycomb matrix with cells filled with different electrode materials. 3,661,644, 5-9-72, Cl. 136-6.000.

Arrance, Frank C., to McDonnell Douglas Corporation. Battery electrode and battery embodying same. 3,671,319, 6-20-72, Cl. 136-6.000.

Arrance, Frank C., to McDonnell Douglas Corporation. Flexible inorganic fibers and battery electrode containing same. 3,703,413, 11-21-72, Cl. 136-6.000.

Arrant, Kearney D., to Monsanto Company. Hoisting and transporting device. 3,674,165, 7-4-72, Cl. 214-396.000.

Arrant, Kearney D., to Monsanto Company. Paint striper. 3,695,222, 10-3-72, Cl. 118-207.000.

Arrighetti, Sergio: *See—*
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Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Arrighetti, Sergio, 3,691,141.

Arrighetti, Sergio; Vajna, Eugenio; and Cesca, Sebastiano, to Snam Progetti S.p.A. Polyene hydrocarbons and process for obtaining same. 3,676,510, 7-11-72, Cl. 260-666.0py.

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Arrigo, Joseph T.; and Christensen, Nils J., to Universal Oil Products Company. Hydrogenation of arylaldehydes. 3,663,626, 5-16-72, Cl. 260-613.

Arrigo, Joseph T.; and Christensen, Nils J., to Universal Oil Products Company. Hydrogenation of nitrobenzene. 3,678,108, 7-18-72, Cl. 260-563.00d.

Arrigo, Joseph T., to Universal Oil Products Company. N-(2,2-disubstituted-vinyl)-arylimines. 3,706,802, 12-19-72, Cl. 260-566.00f.

Arrigo, Joseph T.; and Sparks, Allen K., to Universal Oil Products Company. Process for preparing cyclic compounds. 3,707,481, 12-26-72, Cl. 260-343.20r.

Arrigo, Michael F.: *See—*
Asbelle, Charles C.; Arrigo, Michael F.; Hunting, Kenneth E.; and Helmuth, Gene R., 3,673,613.
Galloway, Dwight V.; King, Gordon E.; Asbelle, Charles C.; and Arrigo, Michael F., 3,703,894.

Arrigoni, Virgilio; Sezzi, Franco; and Gaetani, Bruno, to Snam Progetti S.p.A. Device for the simultaneous and quantitative detection of detonation and preignition. 3,678,732, 7-25-72, Cl. 73-35.000.

Arrington, Douglas C.: *See—*
Eisenman, Wesley L.; Arrington, Douglas C.; Bates, Richard L.; Merriam, James D.; and Stierwalt, Donald L., 3,660,659.

Arrington, James R.; and King, Karl Lewis, to American Limnetics Instruments, Inc. Thallium alloy electrode. 3,696,019, 10-3-72, Cl. 204-290.00r.

Arrington, Lee O.: *See—*
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Arrington, William L.; Gantt, Wayne Carlton; and Gouger, Leonard Joseph, to GTE Sylvania Incorporated. Non-inflammable horizontal output transformer. 3,671,903, 6-20-72, Cl. 336-96.000.

Arron, Stanley. Electrically heated mitten. 3,632,966, 1-4-72, Cl. 219-211.

Arrow Safety Device Company: *See—*
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Arrow Tank Company, Inc.: *See—*
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Arrow-Hart, Inc.: *See—*
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Christensen, Paul M.; and Petitjean, Robert J., 3,639,715.
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Genova, Joseph A., 3,634,812.
Hafer, Paul M., 3,636,237.
Johnson, David W., 3,649,780.
Schleicher, Harold E., 3,634,795.

Arroyo, John J. Mathematics training toy. 3,690,018, 9-12-72, Cl. 35-31.00c.

Arsem, Alvan D.; Schwartz, Harold O.; and Ippolito, Anthony C., to Wurlitzer Company, The. Automatic rhythmic chording unit. 3,706,837, 12-19-72, Cl. 84-1.030.

Arsem, Alvan Donald; and Schwartz, Harold O., to Wurlitzer Company, The. Digital organ system. 3,696,201, 10-3-72, Cl. 84-1.010.

Arsenault, James H.: *See—*
Davidson, Ralph L.; and Arsenault, James H., 3,648,429.

Arseneault, Paul J.; and Feierabend, Louis B., to International Business Machines Corporation. Loading and unloading an endless web in a cartridge. 3,661,309, 5-9-72, Cl. 226-97.

Arsenius, Torsten Henry; Gustafsson, Anders Christer; and Hallstedt, Karl Goran Albin, to SKF Industrial Trading and Development Company N.V. Axial bearing. 3,672,733, 6-27-72, Cl. 308-9.000.

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Arsenius, Torsten Henry, to SKF Industrial Trading and Development Company N.V. Hydraulic fluid throttling device. 3,696,841, 10-10-72, Cl. 138-42.000.

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Art Metal -U.S. Corporation: *See—*
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Artama, Arvi. Furnace for heating and bending glass plates for windshields and the like. 3,697,243, 10-10-72, Cl. 65-273.000.

Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedin, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Jury Dmitrievich; Yasjukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny iktorovich. Appliance for automatic thread piecing in spinning or spinning and twisting machines. 3,654,756, 4-11-72, Cl. 57-34.

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Artaud, Maurice H.; Johnson, Ronald W.; and Sampath, Prativadi I., to Stromberg Datagraphix, Inc. Microfilm viewer-printer. 3,674,354, 7-4-72, Cl. 355-5.000.

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Artelt, Herbert C., Jr., to Xerox Corporation. Label printing apparatus. 3,679,300, 7-25-72, Cl. 355-3.000.

Artelt, Herbert C., Jr., to Kollsman Instrument Corporation. Adjustable label form slitter for addressing machines. 3,707,424, 12-26-72, Cl. 156-521.000.

Artemenko, Anatoly Ivanovich; Geshtenkern, Rafail Yakovlevich; and Yagupov, Igor Nikolaevich, to Vsesojuzny Nauchno-Issledovatelsky Institut Gorno-Spasatelnogo Dela. Medical splint apparatus. 3,683,902, 8-15-72, Cl. 128-89.00r.

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Arth, Glen E.; and Rasmusson, Gary H., to Merck & Co., Inc. 19-Nor-6,6-ethylene-20-spiroxenes. 3,673,180, 6-27-72, Cl. 260-239.55r.

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Arthur, Eric Richard; and Clemesha, Oliver Robert. Hemline gauge. 3,662,931, 5-16-72, Cl. 223-1.1.

Arthur, Gene M., to Clevite Corporation. Shock absorbing device for draft gear. 3,684,271, 8-15-72, Cl. 267-152.000.

Arthur, Jett C., Jr.; and Harris, James A., to United States of America, Agriculture. Durable-press all-cotton fabrics through treated fiber blending with untreated fiber. 3,634,018, 1-11-72, Cl. 8-116.

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Arthur, John Read, Jr.; and Morris, Francis Joseph, to Bell Telephone Laboratories, Incoprorated. Method of growing compound semiconductor films on an amorphous substrate. 3,666,553, 5-30-7, Cl. 117-229.000.
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Arthur, Ralph P.; and Belden, Mary Joanne, to Borg-Warner Corporation. Method of releasing soil in fabrics. 3,684,568, 8-15-72, Cl. 117-139.400.
Arthur, Richard J., to Sperry Rand Corporation. Collision avoidance system. 3,697,987, 10-10-72, Cl. 343-5.0em.
Arthur, Ronald H., to Unimax Switch Corporation. Electrical switch actuating assembly. 3,681,554, 8-1-72, Cl. 200-172.00a.
Arthur, Samuel M. Device for extracting fruit juices. 3,636,870, 1-25-72, Cl. 100-211.
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Artmann, Paul. Light-weight concrete material and process for producing the same. 3,661,604, 5-9-72, Cl. 106-98.
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Artz, Klaus, to Ciba-Geigy AG. Mono azo dyestuffs containing a benzthiazolyl radical. 3,686,162, 8-22-72, Cl. 260-158.000.
Artz, Klaus; Ramanathan, Visvanathan; and Moser, Peter, to Ciba-Geigy AG. Azo dyestuffs containing a benzthiazolyl group. 3,707,532, 12-26-72, Cl. 260-158.000.
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Arulpragasam, Jeganandaraj A., to International Business Machines Corporation. Data communication system of loop configuration and serial transmission of time slots. 3,639,904, 2-1-72, Cl. 340-147.
Arulpragasam, Jeganandaraj A.; Binks, Dennis C.; Holmes, John J.; Minshull, John F.; Pinnell, Martin C.; and Williams, Clive, to International Business Machines Corporation. Configuration control of data processing system units. 3,680,052, 7-25-72, Cl. 340172.500.
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Arumugham, Rangaswamy, to GTE Sylvania Incorporated. Line voltage compensating circuitry for RGB color drive system. 3,700,787, 10-24-72, Cl. 178-5.40r.
Arutunian, Gregory; and Wilburn, David K., to United States of America, Army. Fluid flowmeter. 3,688,574, 9-5-72, Cl. 73-194.00e.
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Asadorian, Arthur A.; and Broadworth, Max R., to Dow Chemical Company, The. Process for the preparation of methyl bromide using radiation. 3,682,805, 8-8-72, Cl. 204-163.00r.

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Asahara, Tomohiko; Yoda, Naoya; and Minami, Nuneyoshi, to Toray Industries, Inc. Thermally stable thermosetting resin. 3,669,930, 6-13-72, Cl. 260-47.0cz.
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Ashton, Walter G., to Star Industries, Inc. Self-propelled floor scrubber. 3,639,936, 2-8-72, Cl. 15-94.
Ashton, William B.: *See*—
Coleman, Richard L.; Cummins, Billy H.; and Ashton, William B., 3,684,684.
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Ashton, William B.; and Morris, Herbert C., to Texaco Inc. Production of lubricating oils by hydrotreating and distillation. 3,691,067, 9-12-72, Cl. 208-264.000.
Ashton, William H.; and Russell, Robert S., to Johnson & Johnson. Talc beneficiation. 3,684,197, 8-15-72, Cl. 241-26.000.
Ashworth, Brian Thomas; Harper, Donald; and Hill, Peter, to Imperial Chemical Industries Limited. Vulcanisation process. 3,642,727, 2-15-72, Cl. 260-79.5.
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Ashworth, James E., to United States Steel Corporation. Internal coupling for connecting U-shaped rails. 3,671,062, 6-20-72, Cl. 287-127.000.
Ashworth, James E., to United States Steel Corporation. Connection between a brace rail and fence post. 3,685,802, 8-22-72, Cl. 256-35.000.
Ashworth, James E., to United States Steel Corporation. Cantilever slide gate. 3,705,468, 12-12-72, Cl. 49-409.000.
Ashworth, Robert H., to United States Steel Corporation. Apparatus for etching the surface of a metal workpiece. 3,704,220, 11-28-72, Cl. 204-224.000.
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Asinger, Friedrich, to Ethyl Corporation. Process for perparing alcohols and aldehydes from olefins. 3,657,354, 4-18-72, Cl. 260-604.
Asinger, Friedrich; Offermanns, Heribert; and Ghyczy, Mikols, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process of making thiazolines-3. 3,700,683, 10-24-72, Cl. 260-306.700.
Aske, Charles B., Jr. Vehicle wheel trim. 3,671,076, 6-20-72, Cl. 301-37.00r.
Aske, Robert L., to Honeywell Inc. Control apparatus. 3,636,880, 1-25-72, Cl. 102-71.
Asker, Gunnar C. F.; and Hubscher, Maurice. Air screen spray nozzle. 3,645,191, 2-29-72, Cl. 98-36.

Asker, Gunnar C. F.; and Hubscher, Maurice A. Exchange packing element. 3,664,095, 5-23-72, Cl. 55-387.
Asker, Gunnar C. F.; and Hubscher, Maurice A. Conditioned air distribution system. 3,664,253, 5-23-72, Cl. 98-36.
Askew, Warren S.; and Marrs, Richard E., to Amoco Production Company. Solubilized oil-water solutions suitable for miscible flooding. 3,698,479, 10-17-72, Cl. 166-273.000.
Askew, William J., to LTV Aerospace Corporation. Unijunction transistor artificial neuron. 3,691,400, 9-12-72, Cl. 307-201.000.
Askins, Ralph W. Cigarette receptacle and extinguisher. 3,675,662, 7-11-72, Cl. 131-235.
Askins, Robert E.; and Roys, George P., to Thiokol Chemical Corporation. Test apparatus for combustion evaluation. 3,701,278, 10-31-72, Cl. 73-35.000.
Askins, William J., to Massey-Ferguson Inc. Earthworking vehicle. 3,642,159, 2-15-72, Cl. 214-764.
Aslan, Edward E., to Narda Microwave Corporation, The. Near-field radiation monitor. 3,641,439, 2-8-72, Cl. 325-363.
Aslan, Edward E., to Narda Microwave Corporation, The. Zero temperature drift electrothermic units. 3,668,521, 6-6-72, Cl. 324-106.000.
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Asmus, Rodger W., to International Harvester Company. Low effort shuttle block selector spool modification for the manual feathering control and overspeed control for a hydrostatic transmission. 3,675,421, 7-11-72, Cl. 60-53.00r.
Asmus, Rodger W., to International Harvester Company. Anti-coast valve addition to the manual feathering control for a hydrostatic transmission. 3,699,677, 10-24-72, Cl. 60-53.00r.
Asmussen, Daniel R., to United Control Corporation. Demodulator for angularly related signals. 3,676,659, 7-11-72, Cl. 235-186.000.
Asmussen, Daniel R., to Tel-Tone Corporation. Pulse ratio detector. 3,705,417, 12-5-72, Cl. 307-234.000.
Asmussen, Hans P. Snowmobile with banking control. 3,650,341, 3-21-72, Cl. 180-5.
Aso, Chuji; Kunitake, Toyoki; and Uchio, Hakaru, to Asahi Kasei Kogyo Kabushiki Kaisha. Poly-cis-1,2-divinylcyclohexane and method for preparing the same. 3,642,757, 2-15-72, Cl. 260-93.1.
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Aspden, Ronald, to Itek Corporation. Optical surface generating apparatus. 3,676,960, 7-18-72, Cl. 51-165.710.
Aspel, Thomas E. Orthodontist wire marking device. 3,667,129, 6-6-72, Cl. 33-189.
Asper, Jean-Jacques, to Brasco S.A. Filtration apparatus and method. 3,679,052, 7-25-72, Cl. 210-75.000.
Asper, Theodor. Vending system using a value storing key. 3,670,924, 6-20-72, Cl. 222-2.000.
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Assarsson, Per Gunnar, to Union Carbide Corporation. Disposable articles. 3,664,343, 5-23-72, Cl. 128-284.
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Asscher, Meir; Katchalsky, Aharon; and Vofsi, David, to Yeda Research and Development Co., Ltd. Production of adducts of carbon tetrachloride or chloroform with olefinically unsaturated substances. 3,651,019, 3-21-72, Cl. 260-77.
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Assmus, Friedrich; and Ganter, Wolfgang, to Gebruder Junghans G.m.b.H., Firma. Driving circuit for a time-keeping device. 3,665,271, 5-23-72, Cl. 318-138.000.
Assmus, Friedrich; Ganter, Wolfgang; and Flaig, Hans, to Gebruder Junghans G.m.b.H. Wrist watch with a piezoelectric crystal as time-keeping oscillator. 3,693,343, 9-26-72, Cl. 58-231.00f.
Assmus, Fritjof Hans; and Knitter, Heinz, to Bunker-Ramo Corporation, The. Piggy back connector. 3,693,139, 9-19-72, Cl. 339-217.00r.
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Browning, George William, 3,671,742.
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Assouline, George; Conjeaud, Pierre; Girault, Pierre; and Leiba, Eugene, to Thomson-CSF. Blind landing aids. 3,671,963, 6-20-72, Cl. 343-6.0nd.
Assouline, George; Conjeaud, Pierre; Girault, Pierre; and Leiba, Eugene, to Thomson-CSF. Blind landing aid systems. 3,705,955, 12-12-72, Cl. 178-6.800.
Assour, Jacques Mayer; Rosen, Arye; and Reynolds, James Francis, to RCA Corporation. High efficiency mode avalanche diode oscillator. 3,659,222, 4-25-72, Cl. 331-99.
Assour, Jacques Mayer, to RCA Corporation. Avalanche diode. 3,696,272, 10-3-72, Cl. 317-234.000.
Asta, Gino Dall: *See—*
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Astafiev, Georgy Vasilievich; Korolkov, Ivan Alexandrovich; and Ozhgikhin, Anatoly Nikolaevich. Surgical apparatus for suturing tissue with staples. 3,692,224, 9-19-72, Cl. 227-19.000.
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Aszalos, Adorjan; Robison, Robert S.; Kraemer, Nancy; Henshaw, Jo Ann; and Giannini, Mary Suzanne, to Squibb, E. R., & Sons, Inc. Tumimycin and process for making same. 3,674,867, 7-4-72, Cl. 424-122.000.
Aszkenas, Marvin. Snap-on cleaning unit for vehicular windshield wipers. 3,631,561, 1-4-72, Cl. 15-250.41.
Ataka, Hisanori; and Mikami, Nobunao, to Kabushiki Kaisha Ricoh. Parallax correction device for use in a multiphotographic device. 3,641,900, 2-15-72, Cl. 95-36.
Ataka, Hisanori, to Kabushiki Kaisha Ricoh. Light sensitized plate holding box for compound photographic camera. 3,641,904, 2-15-72, Cl. 95-66.
Ataka, Hisanori, to Kabushiki Kaisha Ricoh. Micro-photograph projection system. 3,642,360, 2-15-72, Cl. 353-38.
Ataka, Hisanori, to Kabushiki Kaisha. Viewfinder optical system. 3,656,421, 4-18-72, Cl. 95-42.
Ataka, Hisanori, to Ricoh Co., Ltd. Real image viewfinder employing roof-type reflecting mirror assemblies. 3,690,214, 9-12-72, Cl. 88-1.50r.
Ataka, Takeshi; Tenkumo, Shohei; Sekita, Minoru; and Nakaniwa, Yuji, to Minolta Camera Kabushiki Kaisha. Exchange lens with the lens-shutter. 3,635,142, 1-18-72, Cl. 95-53.
Atakkran, Namik, to Appleton Electric Company. Linear push plunger electrical switch with tubular shroud arc prevention means. 3,699,276, 10-17-72, Cl. 200-16.00a.
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Athanas, Terry George, to RCA Corporation. Input transient protection for complementary insulated gate field effect transistor integrated circuit device. 3,673,428, 6-27-72, Cl. 307-202.000.
Athanas, Terry George, to RCA Corporation. Formation of openings in insulating layers in MOS semiconductor devices. 3,674,551, 7-4-72, Cl. 117-212.000.
Athanasoulas, Evangelos G. Saw blades and machines for servicing them. 3,661,037, 5-9-72, Cl. 76-58.
Athans, Jerry, Jr. Remotely controlled wall switch operating means. 3,697,905, 10-10-72, Cl. 335-1.000.
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Atherton, David L., to Ferranti-Packard Limited. Cryogenic magnet force application means and method. 3,691,960, 9-19-72, Cl. 104-148.0ss.
Atherton, John, to Staveley Machine Tools Limited. Boring machines. 3,645,639, 2-29-72, Cl. 408-146.
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Atkins, Carl E., to Wagner Electric Corporation. Control circuit with anti-switching and anti-noise circuitry. 3,670,178, 6-13-72, Cl. 307-202.000.
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Audran, Roger G. L.; Dostes, Clude G.; and Marechal, Claude M. Photosensitive elements having high surface concentration of silver halide and stabilized against contamination fog. 3,687,677, 8-29-72, Cl. 96-109.000.
Audretsch, Leo M., Jr.; and Elsner, Matthew, to International Business Machines Corporation. Communication by smooth high order composites of trigonometric product functions. 3,697,697, 10-10-72, Cl. 179-15.0bc.
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Aue, Alexander Iskander; Bjorling, Gotthard E.; and Johansson, Sven Agden, to Gullspangs Elektrokemiska AB. Process for the recovery, from secondary material, of such metals as nickel, cobalt, iron and copper, said secondary material comprising in additionone or more metals having a high melting point. 3,649,487, 3-14-72, Cl. 204-112.
Aue, John R., to Westinghouse Electric Corporation. Refrigeration apparatus cabinet construction. 3,633,783, 1-11-72, Cl. 220-9.
Aue, John R., to Westinghouse Electric Corporation. Shelf construction for a refrigerator door. 3,647,075, 3-7-72, Cl. 211-153.
Aue, John R.; and Thompson, Glen D., to Westinghouse Electric Corporation. Arrangement for supporting a closure member from a track. 3,653,158, 4-4-72, Cl. 49-417.
Aue, Walter A.; and Hastings, Corazon R., to Research Corporation. Novel silicious silicone bonded materials. 3,666,530, 5-30-72, Cl. 117-54.
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Auer, John H., Jr.; and Huffman, Jerry P., to General Signal Corporation. Remote control apparatus. 3,641,575, 2-8-72, Cl. 343-225.
Auer, John H., Jr.; and Huffman, Jerry P., to General Signal Corporation. Digital radar interface. 3,653,043, 3-28-72, Cl. 343-8.
Auer, John H., Jr., to General Signal Corporation. Apparatus for controlling sonic energy distribution. 3,672,462, 6-27-72, Cl. 181-.50r.
Auer, John H., Jr.; and Huffman, Jerry P., to General Signal Corporation. Sonic presence detector system. 3,675,190, 7-4-72, Cl. 340-1.000.
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Auer, Peter, to Uhlmann, Josef, Maschinenfabrik. Apparatus for thermoforming packages or heat-sealing thermoformed packages. 3,686,059, 8-22-72, Cl. 156-581.000.
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Auer, Siegfried O., to United States of America, National Aeronautics and Space Administration. Cosmic dust impact location detector or other similar outer space particles. 3,694,655, 9-26-72, Cl. 250-83.60r.
Auer, Ulrich W.; and Nicole, Andre, to Interbrev S.A. Method of and a loom for producing a tape having a list with laterally protruding loops. 3,692,068, 9-19-72, Cl. 139-116.000.
Auerbach, Seymour. Protective and support device for vehicle travel. 3,648,306, 3-14-72, Cl. 5-94.
Auerdahl, Olav, to Norsk Hydro A/S. Position indicator. 3,641,966, 2-15-72, Cl. 116-125.
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Aufdereggen, Klaus; Arni, Urs; Faucci, Adriano; and Stocker, August, to Lonza Ltd. Process for the production of malonic acid dinitrile. 3,683,003, 8-8-72, Cl. 260-465.80r.
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Aufdermarsh, Carl Albert, Jr.; and Fogiel, Adolf Wojciech, to Du Pont de Nemours, E. I., and Company. Process for preparing flexible polyurethane foams and coatings. 3,674,721, 7-4-72, Cl. 260-2.5ac.
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Auge, Jacques; Guillaume, Andre; and Tourniaire, Claude, to Rhone-Poulenc S.A. Process for the manufacture of foam slabs. 3,644,606, 2-22-72, Cl. 264-47.
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Auger, Raymond N. Multistable wake deflection amplifier. 3,643,693, 2-22-72, Cl. 137-608.
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August Herzog Maschinenfabrik: *See—*
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Augustin, Jan; Trebichavsky, Ctibor; and Zubak, Jan, to Vyskumny ustav mechanizacie a automatizacie. Electrochemical machining of metals. 3,650,922, 3-21-72, Cl. 204-143.
Augustine, Carl F., to Bendix Corporation, The. Method and apparatus for detecting microwave fields. 3,693,084, 9-19-72, Cl. 324-106.000.
Augustine, Lawrence G., to Motorola, Inc. Semiconductor device having a recombination ring. 3,649,883, 3-14-72, Cl. 317-235.
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Augustsson, Bengt O.; and Southwick, Russell D., to Glass Container Manufacturers Institute, Inc. Vapor deposition apparatus including air finish. 3,688,737, 9-5-72, Cl. 118-48.000.
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Auld, John R., to Merco Products, Inc. Infant warmer having electric (infrared) heating means. 3,646,319, 2-29-72, Cl. 219-347.
Aulenbach, Grant M.; and Goda, Kermit J., Jr., to Carpenter Technology Corporation. Free machining stainless steel alloy. 3,645,722, 2-29-72, Cl. 75-124.
Auletta, Lucien V.; Cornish, Blair E.; Damm, Eugene P., Jr.; Faigenbaum, Mark A.; and Simon, Andrew M., to International Business Machines Corporation. Hostile environment protection of critical metallic surfaces by electro-phoretically deposited coatings.3,660,263, 5-2-72, Cl. 204-181.
Auletta, Lucien V.; Kim, Yungil; and Simon, Andrew M., to International Business Machines Corporation. Apparatus for selective application of electrophoretic coatings. 3,663,415, 5-16-72, Cl. 204-299.000.
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Ault, Wayne E., to A-T-O Inc. Reinforced fusible element. 3,638,734, 2-1-72, Cl. 169-42.
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Auman, Paul M.; and Wagstaff, James B., to United States Steel Corporation. Pouring nozzle for continuous-casting machine. 3,633,654, 1-11-72, Cl. 164-278.
Aumann, Frederick C., III; and Butler, Gerald V., Jr., to Digital Equipment Corporation. Data processor console communications system. 3,670,311, 6-13-72, Cl. 340-172.500.
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Aunstrup, Knud, to Novo Terapeutisk Laboratorium A/S. Preparation of amyloglucosidase. 3,677,902, 7-18-72, Cl. 195-66.00r.
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Auphan, Michel Joseph, to U.S. Philips Corporation. Heart stimulator and heart-powered energy supply therefor. 3,693,625, 9-26-72, Cl. 128-419.00p.
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Auriemma, Nicholas A., to Universal Oil Products Company. Unit for storing and serving articles such as condiments. 3,679,065, 7-25-72, Cl. 312-312.000.
Auriemma, Nicholas Alfred, to Universal Oil Products Company. Serving cart. 3,651,894, 3-28-72, Cl. 188-19.
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Aus Der Funten, Helmut; Richtzenhain, Hermann; and El-Chahawi, Moustafa. Method of producing ketonitriles. 3,632,625, 1-4-72, Cl. 260-464.

Aus der Funten, Helmut; and Richtzenhain, Hermann, to Dynamit Nobel Aktiengesellschaft. Method for the production of substituted cyanobutyric acids. 3,654,339, 4-4-72, Cl. 260-464.

Ausdall, Carl Van. Rotary cutting reel, ledger blade and baffle assembly. 3,668,847, 6-13-72, Cl. 56-252.000.

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Ausnit, Steven. Hinged flexible strip closure. 3,634,913, 1-18-72, Cl. 24-201.

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Ausnit, Steven. Device for closing fasteners. 3,650,011, 3-21-72, Cl. 29-243.57.

Ausnit, Steven. Self-retaining extruded plastic wrap member. 3,654,049, 4-4-72, Cl. 161-7.

Ausnit, Steven. Flexible pilfer proof closure construction for bags. 3,679,511, 7-25-72, Cl. 156-251.000.

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Austad, Helge, to Bell Telephone Laboratories, Incorporated. Short arc discharge lamp. 3,705,325, 12-5-72, Cl. 313-182.000.

Austen, Jorg, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Synchronization ring. 3,688,883, 9-5-72, Cl. 192-53.00c.

Austin, Albert A., Jr., to Atlas Automation, Inc. Transfer apparatus with digital path control. 3,668,498, 6-6-72, Cl. 318-568.000.

Austin, Amory Earl; and Bechtold, Charles L., to Colgate-Palmolive Company. Means to inhibit overglaze damage by automatic dishwashing detergents. 3,701,736, 10-31-72, Cl. 252-99.000.

Austin, Arthur L.; Pizzini, Louis C.; and Levis, William W., Jr., to BASF Wyandotte Corporation. Ester-containing polyols having halogen and phosphorus atoms. 3,639,541, 2-1-72, Cl. 260-952.

Austin, Charles C., to Dennison Manufacturing Company. Endless band embossing device. 3,666,072, 5-30-72, Cl. 197-6.2.

Austin, Christopher Frederic; Crowther, Philip Simpson; Warren, David; and Howitt, David, to Lightning Fasteners Limited. Sliding clasp fastener stringers. 3,651,666, 3-28-72, Cl. 66-86.

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Austin, Frederick H.; Rogers, Jimmy D.; and Wormser, Joseph J., to LTV Electrosystems, Inc. Pulse transmittor including means for controlling the amplitude and phase of output pulses. 3,706,038, 12-12-72, Cl. 325-164.000.

Austin, George K., Jr. Dental handpiece control. 3,638,310, 2-1-72, Cl. 32-22.

Austin, George K., Jr. Dental syringes. 3,698,088, 10-17-72, Cl. 32-22.000.

Austin, George Wesley, to Foseco International Limited. Process of submerged nozzle continuous casting using a basalt flux. 3,677,325, 7-18-72, Cl. 164-73.000.

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Austin, Leonard H., to Ansaks Industries, Inc. Capsule filling apparatus. 3,675,390, 7-11-72, Cl. 53-282.000.

Austin, Levi J. F., to Clear Hooters Limited. Fluid-pressure control valves. 3,633,821, 1-11-72, Cl. 236-87.

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Austin, Philip R., to Contamination Control Laboratories. Velocity meter. 3,636,766, 1-25-72, Cl. 73-228.

Austin, Richard C.; Traub, Robert A.; and Rengert, Joseph S.; deceased (by Rengert, Helen M.; executrix), to Eastman Kodak Company. Spindle mounted flange. 3,658,271, 4-25-72, Cl. 242-67.1.

Austin, Robert R.; and Creighton, David M., to International Telephone and Telegraph Corporation. Titration electrolyte and method. 3,681,206, 8-1-72, Cl. 204-1.00t.

Austin, Severin: *See—*
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Avins, Jack; and Craft, Jack, to RCA Corporation. Combined tuning and signal strength indicator circuit with signal strength indication derived from each IF amplifying stage. 3,673,499, 6-27-72, Cl. 325-398.000.

Avins, Jack, to RCA Corporation. Amplifier-limiter circuit with reduced AM to PM conversion. 3,678,405, 7-18-72, Cl. 330-26.000.

Avins, Jack, to RCA Corporation. Variable gain amplifier. 3,678,406, 7-18-72, Cl. 330-29.000.

Avins, Jack; and Kirkwood, Loren Robert, to RCA Corporation. Control apparatus for a color television receiver. 3,679,816, 7-25-72, Cl. 178-5.4he.

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Avrillon, Rene; Franckowiak, Sigismond; Gatellier, Claude; and Glikmans, Georges, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for cultivating micro organisms in the presence of hydrocarbons. 3,698,998, 10-17-72, Cl. 195-28.000.

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Awebro, Folke Hildemar. Device for supporting and transporting a cable drum. 3,652,026, 3-28-72, Cl. 242-86.5.

Aweida, Jesse I.; Arthur, William C.; and Powers, Gale A., to Storage Technology Corporation. Reel control system for magnetic tape apparatus. 3,664,604, 5-23-72, Cl. 242-185.

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Axelrod, Michael; Marsh, William S.; Rao, Koppaka V.; and Sodano, Charles S., to Pfizer Inc. Mitomalcin and method for its production. 3,644,617, 2-22-72, Cl. 424-115.

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Axelrod, Norman Nathan, to Bell Telephone Laboratories, Incorporated. Group III-V Schottky barrier diodes. 3,675,316, 7-11-72, Cl. 29-576.000.

Axelson, Carl A.; Hinves, John R.; and McGann, Elton Y., to United States of America, Navy. Pressure actuated acoustic signal source. 3,672,300, 6-27-72, Cl. 102-10.000.

Axelson, Carl A.; Hinves, John R.; Mc Gann, Elton Y.; and Johnson, Robert M. Underwater sound signal for explosive echo ranging. 3,701,319, 10-31-72, Cl. 102-7.000.

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Ayad, Karl, to Monsanto Chemicals Limited. Nitramino pyridine derivatives. 3,641,042, 2-8-72, Cl. 260-296.

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Ayano, Satoshi; and Yabe, Seizo, to Japan Gas-Chemical Company, Inc. Process for manufacture of polymers of conjugated dienes. 3,660,536, 5-2-72, Cl. 260-880.

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Ayella, Edmond R., to Penntube Plastics Company. Colored heat shrinkable elastomeric tubing. 3,674,733, 7-4-72, Cl. 260-30.600.

Ayer, Donald E.; and White, David R. Process for production of exgasta-4,22-dien-3-one from ergostorol. 3,689,511, 9-5-72, Cl. 260-397.200.

Ayer, Donald Emory; Babcock, John C.; and Campbell, J. Allan, to Upjohn Company, The. Organic processes. 3,654,320, 4-4-72, Cl. 260-397.4.

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Ayers, Oma Merle. Hide-away decor ironing center. 3,663,080, 5-16-72, Cl. 312-237.

Ayers, Orval E.; and White, Niles C., to United States of America, Army. Method for operating a hybrid rocket engine. 3,662,555, 5-16-72, Cl. 60-220.000.
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Ayres, William M.; and Henry, Ronald A., to United States of America, Navy. Gas generator composition containing a nitrogen rich compound and a catalyst. 3,677,841, 7-18-72, Cl. 149-92.000.
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Baba, Theodore B. Continuous process for the production of alfin polymers by polymerization of alfin monomers in an organic solvent and for recovering and recycling solvent. 3,640,978, 2-8-72, Cl. 260-82.1.
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Babany, Lucien; and Poussin, Antoine, to C.I.T.-Compagnie Industrielle des Telecommunications. Frequency synthesizer with numerically controlled scanning voltage. 3,636,467, 1-18-72, Cl. 331-4.
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Babbitt, John H., Jr.; Bell, Richard L.; Riedesel, Edwin L.; and Stark, Sheldon L., to Caterpillar Tractor Company. Rollover protective structure for tractors. 3,632,134, 1-4-72, Cl. 280-150.
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Babcock, John C.; and Campbell, J Allan, to Upjohn Company, The. Organic compounds. 3,642,992, 2-15-72, Cl. 424-238.
Babcock, John C.; and Beal, Philip F., III, to Upjohn Company, The. Process for making prostaglandins and compounds related to prostaglandins. 3,679,705, 7-25-72, Cl. 260-340.700.
Babcock, Lyndon R., Jr.; and Walker, Dale A., to Shell Oil Company. Process for preparation of high impact polystyrene. 3,676,527, 7-11-72, Cl. 260-876.00r.
Babcock, Robert L., to Bonafide Pattern, Inc. Pattern duplicator. 3,653,291, 4-4-72, Cl. 90-13.2.
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Babey, Victor Stephen. Apparatus for filling thin tubular containers with a liquid. 3,687,175, 8-29-72, Cl. 141-59.000.
Babic, Anthony T. Trowel device. 3,683,761, 8-15-72, Cl. 94-45.00a.
Babich, Herman B. Securing devices to be used with aircraft. 3,685,771, 8-22-72, Cl. 244-115.000.
Babikyan, Jirair A., to Sanders Associates, Inc. Self-starting single phase motor. 3,656,040, 4-11-72, Cl. 318-168.
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Babson, Arthur L., to Warner-Lambert Company. Filtering pipette. 3,698,561, 10-17-72, Cl. 210-445.000.
Babson, Arthur L.; and Tenney, Susan R., to Warner-Lambert Company. Method for obtaining a dye free, water soluble dyed substrate for amylase assay. 3,705,149, 12-5-72, Cl. 260-233.30r.
Babson, Edward S., to USM Corporation. Shoe bottom roughing machines. 3,645,118, 2-29-72, Cl. 69-6.5.
Babson, Edward S., to USM Corporation. Dust removal means. 3,699,597, 10-24-72, Cl. 12-89.000.
Babunovic, Momir, to Barry-Wehmiller Company. Container pressure testing apparatus. 3,650,146, 3-21-72, Cl. 73-37.
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Bach, Hartwig C.; and Hinderer, Helmuth E., to Monsanto Company. Allylamines from π-allylpalladium complexes. 3,642,902, 2-15-72, Cl. 260-585.

Bach, Hartwig C., to Monsanto Company. Aromatic azo block copolymers. 3,644,283, 2-22-72, Cl. 260-47.

Bach, Hartwig C.; and Hinderer, Helmuth E., to Monsanto Company. Symmetrical aromatic diamines containing a central azo linkage. 3,644,328, 2-22-72, Cl. 260-169.

Bach, Hartwig C., to Monsanto Company. Highly ordered azo-aromatic polyamides. 3,660,361, 5-2-72, Cl. 260-78.00r.

Bach, Hartwig C.; and Hinderer, Helmuth E., to Monsanto Company. Polyamides from pseudo-conjugated azo-aromatic diamines. 3,697,478, 10-10-72, Cl. 260-47.0cz.

Bach, Hartwig C., to Monsanto Company. Preparing dimers of 4,4' azodianiline. 3,702,846, 11-14-72, Cl. 260-169.000.

Bach, Heinz; Bottger, Max; and Pabst, Heinrich, to General Foods Corporation. Instant coffee product and a process for its manufacture. 3,652,292, 3-28-72, Cl. 99-71.

Bach, Horst Werner, to U.S. Philips Corporation. Reading and/or writing device for record carriers in card form. 3,648,023, 3-7-72, Cl. 235-61.11.

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Bach, Lloyd G.; Ewald, Jerome T.; and Fulmer, Keith H., to Bendix Corporation, The. Auxiliary fluid supply for brake booster. 3,688,498, 9-5-72, Cl. 60-52.00b.

Bach, Nicholas J.; and Farkas, Eugene, to Lilly, Eli, and Company. Preparation of 17 alpha-ethynylestriol. 3,697,558, 10-10-72, Cl. 260-397.500.

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Bach, Walter H. Stacked battery construction having insulating disks between cells joined by welds. 3,676,221, 7-11-72, Cl. 136-111.000.

Bacha, John D.; and Selwitz, Charles M., to Gulf Research & Development Company. 1,3,5-Haloxylene extraction. 3,641,168, 2-8-72, Cl. 260-650.

Bacha, John D.; and Selwitz, Charles M., to Gulf Research & Development Company. Selective extraction of meta-chlorotoluene. 3,655,783, 4-11-72, Cl. 260-650.

Bacha, John D.; and Selwitz, Charles M., to Gulf Research & Development Company. Selective extraction of diahinotoluene from an ammonolysis product mixture. 3,686,314, 8-22-72, Cl. 260-582.000.

Bacharach, Ottmar, to Pfeiffer, Gebr., Barbarossawerke AG. Roller mill with rotating grinding vessel. 3,656,695, 4-18-72, Cl. 241-103.

Bachelard, Roland, to Ugine Kuhlmann. Production of gaseous hydrogen fluoride. 3,645,681, 2-29-72, Cl. 23-153.

Bachelder, Albert J., to Polaroid Corporation. Photographic apparatus and method. 3,647,441, 3-7-72, Cl. 96-29.

Bachelder, Albert J.; and Binda, Frederick J., to Polaroid Corporation. Photographic film unit. 3,652,281, 3-28-72, Cl. 96-76.

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Bachhuber, Theodore J. Shotgun shell reloader with sizing die and ejector. 3,702,089, 11-7-72, Cl. 86-32.000.

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Bachman, Augustus W., Jr.: *See*—
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Bachman, Gustave B.; and Tullman, Gerald M., to Purdue Research Foundation. Process for the preparation of alkenyl esters. 3,641,122, 2-8-72, Cl. 260-497.

Bachman, Gustave Bryant; and Biermann, Theodore F., to Purdue Research Foundation. Preparation of nitroalkanes by thermal decomposition of acyl nitrate. 3,689,576, 9-5-72, Cl. 260-644.000.

Bachman, Gustave Bryant; and Eisenstein, Stephen E., to Purdue Research Foundation. Production of nitroalkanes. 3,706,808, 12-19-72, Cl. 260-644.000.

Bachmann, Fritz, to Ciba Limited. Method for combating soil insects and termites. 3,644,633, 2-22-72, Cl. 424-278.

Bachmann, George. Pipe cutting apparatus. 3,691,881, 9-19-72, Cl. 82-4.00c.

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Bachmann, Peter, to Ebauches Bettlach S.A. Chronograph movement. 3,643,422, 2-22-72, Cl. 58-74.

Bachmann, Wilhelm, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Manifold system for logic valves. 3,665,961, 5-30-72, Cl. 137-608.000.

Bachmann, Wilhelm, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Logic control valve. 3,707,162, 12-26-72, Cl. 137-269.000.

Bachmeier, Alfred, to Telefunken Patentverwertungsgesellschaft m.b.H. Method of making contact to semiconductor devices. 3,633,269, 1-11-72, Cl. 29-578.

Bachner, Alfred; Schneider, Karl; Ertel, Martin; and Schraml, Erika, to Siemens Aktiengesellschaft. Long distance communication dial exchange installation with central control. 3,636,243, 1-18-72, Cl. 178-3.

Bachofen, Willy A. Mixing apparatus. 3,679,183, 7-25-72, Cl. 259-9.000.

Bachura, Richard A., to Dow Corning Corporation. Composition and process for preparing flexible polyester based polyurethane foams. 3,655,581, 4-11-72, Cl. 252-351.

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Baier, Franz: *See*—
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Baier, Franz; and Schmitz, Rudolf. Method and apparatus for making lead strip. 3,673,045, 6-27-72, Cl. 156-436.000.

Baier, Robert J. Apparatus for drawing in perspective. 3,678,589, 7-25-72, Cl. 33-64.00d.

Baig, Reginald; Cooper, Joseph Ernest; and Meek, Louis. Sewing machine accessory. 3,680,508, 8-1-72, Cl. 112-121.120.

Baigel, Hyman S.: *See*—
Gaines, Erwin B.; and Baigel, Hyman S., 3,691,570.

Baignol & Farjon S. A.: *See*—
Farjon, Raymond; Farce, Jacques; Florent, Jacques; and Dumoulin, Michel, 3,702,314.

Bailerlein, George, to Baird-Atomic, Inc. Demountable cathode glow discharge tube, particularly for self aligning spectroscopic devices. 3,633,990, 1-11-72, Cl. 350-80.

Bailey, Bruce L., to Great Lakes Carbon Corporation. Method and apparatus for controlling orientation of needle-like carbon particles in extruded carbonaceous stock. 3,666,847, 5-30-72, Cl. 264-29.

Bailey, Carl W., III: *See*—
Falkehag, Sten I.; Moorer, Howard H.; Prazak, Gerald; and Bailey, Carl W., III, 3,672,817.

Bailey, Carroll F.; and Oetgen, W. Richard, to U.S. Plywood-Champion Papers Inc. Method for uniforming the color of wood and wood articles. 3,645,666, 2-29-72, Cl. 8-111.

Bailey, Darrel E.; and King, Earl M. Metal-cutting apparatus. 3,694,918, 10-3-72, Cl. 30-277.000.

Bailey, David G. Apparatus for automatically adding preselected patterns of eluent solutions to a chromatographic column and monitoring and collecting eluted fractions. 3,701,609, 10-31-72, Cl. 210-198.00c.

Bailey, David L.; and Hinz, Harry C., Jr., to International Business Machines Corporation. Intra-record resynchronization. 3,641,526, 2-8-72, Cl. 340-174.1.

Bailey, Dean C., to Intech Incorporated, mesne. Transducer amplifier system. 3,668,543, 6-6-72, Cl. 330-30.

Bailey, Denis M.: *See*—
Archer, Sydney; and Bailey, Denis M., 3,692,790.

Bailey, Denis M., to Sterling Drug Inc. N,N-Alkylenebis [2-lower alkoxy-2-substituted-alkanamidines] and their preparation. 3,639,478, 2-1-72, Cl. 260-564.

Bailey, Denis M., to Sterling Drug Inc. 1,3-Diaza-2,3-cycloalkene derivatives. 3,657,229, 4-18-72, Cl. 260-239.

Bailey, Denis M., to Sterling Drug Inc. 6-Hydroxy-2-azabicyclo[2.2.2]octan-3-ones and 2-azabicyclo[2.2.2]octane-3,6-diones. 3,674,793, 7-4-72, Cl. 260-293.540.

Bailey, Denis M., to Sterling Drug, Inc. 3,4-Dihydro-2(1H)-isoquinolinecarboxamidoximes. 3,686,184, 8-22-72, Cl. 260-288.00r.

Bailey, Denis M., to Sterling Drug Inc. (2,3-Dihydro-2-benzofuranylmethyl) guanidines and their preparation. 3,700,697, 10-24-72, Cl. 260-346.20r.

Bailey, Donald J., to Mangood Corporation. Circuit for signaling alternation error in detectors for railway vehicle control system. 3,646,510, 2-29-72, Cl. 340-23.

Bailey, Donald J.; and Brewer, Earl G., to General Motors Corporation. Method for solid state growth of iron single crystals. 3,694,269, 9-26-72, Cl. 148-1.600.

Bailey, Edward A.; and Ordway, James F. Striking bar. 3,666,022, 5-30-72, Cl. 173-80.

Bailey, Ferrall W. Gas saving and anti-pollution device. 3,656,462, 4-18-72, Cl. 123-122.

Bailey, Frank W. Blue-flame liquid-fuel burner process, apparatus and utilization systems. 3,652,194, 3-28-72, Cl. 431-9.

Bailey, Gene R.: *See—*
Havasi, Vilmos; and Bailey, Gene R., 3,662,965.

Bailey, George M.: *See—*
Olson, Danford H.; and Bailey, George M., 3,689,578.

Bailey, Herbert S., Jr.; and Stewart, Samuel L., to General Electric Company. Nuclear reactor control system. 3,660,230, 5-2-72, Cl. 176-36.

Bailey, Jack L. Twirling baton. 3,636,811, 1-25-72, Cl. 84-477.

Bailey, James L.; and Mc Cune, Robert F., to Polaroid Corporation. Microporous vinylidene fluoride polymer and process of making same. 3,642,668, 2-15-72, Cl. 260-2.5.

Bailey, James L.; and Rodgers, Franklin A., to Polaroid Corporation. Coated silicone rubber mold. 3,671,007, 6-20-72, Cl. 249-114.000.

Bailey, James R., to Switchcraft, Inc. Push button means. 3,651,700, 3-28-72, Cl. 74-107.

Bailey, James R., to Switchcraft, Inc. Electrical plug. 3,656,089, 4-11-72, Cl. 339-110.

Bailey, James R., to Switchcraft, Inc. Pushbutton electrical switch unit. 3,681,552, 8-1-72, Cl. 200-168.00c.

Bailey, James R.; Corbell, Paul I.; and Korta, Lawrence B., to Johnson Service Company. Intrusion detection apparatus having supervisory control means. 3,697,989, 10-10-72, Cl. 343-5.0pd.

Bailey, Jay Richard: *See—*
Frederickson, Robert Eugene; Zimmerer, John Louis; and Bailey, Jay Richard, 3,652,074.
Frederickson, Robert Eugene; Zimmerer, John Louis; and Bailey, Jay Richard, 3,698,455.

Bailey, Jay Richard, to McCulloch Corporation. Muffler with reed valve providing continuous venting. 3,643,759, 2-22-72, Cl. 181-40.

Bailey, Jennings, Jr., mesne: *See—*
Cornwell, Charles E., 3,669,417.
Cornwell, Charles E.; and Backus, James H., 3,669,418.
Cornwell, Charles E., 3,698,066.

Bailey, John H., to Allied Chemical Corporation. Sulfur extraction. 3,649,217, 3-14-72, Cl. 23-308.

Bailey, John P.; and Muckelroy, William L., to United States of America, Army. Leadless microminature inductance element with closed magnetic circuit. 3,691,497, 9-12-72, Cl. 336-192.000.

Bailey, Joseph, to Eastman Kodak Company. Pyrazolo [3,2-c]-s-triazoles and process for the manufacture thereof. 3,705,896, 12-12-72, Cl. 260-240.00e.

Bailey, Joseph T., to American Lava Corporation. Ultrapure alumina ceramics fromed by coprecipitation. 3,637,406, 1-25-72, Cl. 106-39.

Bailey, Keith A.; and Marlow, Jerry R., to General Motors Corporation. Transmission with flow controlled lockup clutch. 3,682,043, 8-8-72, Cl. 91-412.000.

Bailey, Knight V., to Bendix Corporation, The. Automatic coordinate determining device. 3,647,963, 3-7-72, Cl. 178-19.

Bailey, Loren C., 50% to Thompson, James C. Ladder mounting means for chalk line. 3,675,735, 7-11-72, Cl. 182-129.000.

Bailey, Marion C.; and Croswell, William F., to National Aeronautics and Space Administration. Stacked array of omnidirectional antennas. 3,638,224, 1-25-72, Cl. 343-771.

Bailey, Maurice E.: *See—*
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Bailey Meter Company: *See—*
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Krechmery, Roger L.; and Seabeck, Lee A., 3,707,675.
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Bailey Meters & Controls Limited: *See—*
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Bailey, Philip S.: *See—*
Chang, Yun Ger; and Bailey, Philip S., 3,654,315.

Bailey, Reginald John: *See—*
Kirk, Colin John; and Bailey, Reginald John, 3,657,965.

Bailey, Richard J., to GTI Corporation. Molded shunts for integrated circuits. 3,648,108, 3-7-72, Cl. 317-2.

Bailey, Richard L.; Dowler, Warren L.; and Shafer, John I., to United States of America, National Aeronautics and Space Administration, mesne. Solid propellant rocket motor nozzle. 3,648,461, 3-14-72, Cl. 60-271.

Bailey, Robert A.; and Michelsen, Arve, to United States of America, Navy. Coruscative shaped charge having improved jet characteristics. 3,675,575, 7-11-72, Cl. 102-24.0hc.

Bailey, Robert C.; Estes, Harry A.; James, Glen S.; Klug, James R.; Montillon, Henry A.; Myring, Verne E.; Robertson, Orville H.; Sargeant, Blaine W.; and Sorensen, Neal E., to Holden Industries, Inc. Method of making a magazine insert. 3,679,200, 7-25-72,Cl. 270-4.000.

Bailey, Robert F., to TRW Semiconductors Inc. Semiconductor devices with diffused platinum. 3,640,783, 2-8-72, Cl. 148-186.

Bailey, Robert J., to Grace, W. R., & Co. Dual image formation on separate supports of photocurable composition. 3,650,746, 3-21-72, Cl. 96-35.1.

Bailey, Robert S. Enclosed flotation apparatus and process. 3,647,069, 3-7-72, Cl. 210-44.

Bailey, Roddie F., to United States of America, Navy. Marine mine self protection system. 3,654,888, 4-11-72, Cl. 114-240.

Bailey, Warren R.: *See—*
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Bailey, Wesley T.; and Cummings, Robert, to Purex Corporation, Ltd. Composition for chemical milling maskant. 3,649,584, 3-14-72, Cl. 260-31.2.

Bailey, William A.: *See—*
Lee, Stuart M.; and Bailey, William A., 3,663,265.

Bailey, William B., to Spencer Turbine Company, The. Flow-actuated bleed valve. 3,685,530, 8-22-72, Cl. 137-98.000.

Bailey, William J.: *See—*
Augl, Joseph M.; Bailey, William J.; and Erickson, Porter W., 3,677,787.

Bailiff, Howard Vance: *See—*
Howell, Lawrence E.; and Bailiff, Howard Vance, 3,653,927.

Baillard, Marcel, to Societe Nationale Industrielle Aerospatiale. Tools for plugging in and unplugging subsystems carried on slideways. 3,696,492, 10-10-72, Cl. 29-203.00h.

Bailleux, Gilles, to Automobiles Peugeot and Regie Nationale des Usines Renault. Rear wheel arrangement having trailing arms for an automobile vehicle. 3,704,029, 11-28-72, Cl. 280-124.00r.

Baillie, Lloyd A.: *See—*
Uhl, George A.; and Baillie, Lloyd A., 3,668,115.

Bailly, Louis. Hook for hand hooking rugs. 3,701,461, 10-31-72, Cl. 223-102.000.

Bailly, Roger Gaston, to Societe Anonyme, Societe Minere et Metallurgique de Penanoya. Portable metering charges for low viscosity materials. 3,675,827, 7-11-72, Cl. 222-194.000.

Bain, Andrew. Electrical conduit coupling means. 3,639,677, 2-1-72, Cl. 174-84.

Bain, Andrew. Conduit reaming means. 3,667,858, 6-6-72, Cl. 408-229.000.

Bain, Bruce N. Board game apparatus. 3,638,946, 2-1-72, Cl. 273-134.

Bain, Douglas G.; and Hartmeyer, James J., to General Motors Corporation. Lamp and switch assembly for the rear compartment of a motor vehicle. 3,692,992, 9-19-72, Cl. 240-2.000.

Bain, Kenneth Lindsay; and Leonard, Douglas Leslie, to Parkson Corporation. Concentration by continuous flash evaporation. 3,656,534, 4-18-72, Cl. 159-47.

Bain, Merrill H.; and Bucher, Michael R. Hand glove and light signal attachment therefor. 3,638,011, 1-25-72, Cl. 240-6.4.

Bain, Orville J.; and Jelinek, Jerry G., to Parker-Hannifin Corporation. Sealed joint and gasket therefor. 3,635,480, 1-18-72, Cl. 277-180.

Bain, Peter James Stratford; and Mc Call, Ernest Bryson. Secondary alkyl aryl phosphites. 3,694,395, 9-26-72, Cl. 260-29.70p.

Bain, Thomas William, to Imperial Chemical Industries Limited. Reciprocatory fluid motor. 3,682,042, 8-8-72, Cl. 91-3.000.

Bainbridge, Arnold: *See—*
Unsworth, Robert George; and Bainbridge, Arnold, 3,645,544.

Baines, Frank Oxley: *See—*
Jeans, Michael Anthony and; and Baines, Frank Oxley, 3,680,589.

Bair, Daniel L.: *See—*
Hindin, Saul G.; Bair, Daniel L.; and Steele, Duane R., 3,666,813.

Bair, James G., to Fox Grinders, Inc. Apparatus for feeding work to a grinder wheel. 3,648,415, 3-14-72, Cl. 51-215.

Bair, Thomas I.; and Morgan, Paul W., to Du Pont de Nemours, E. I., and Company. Optically anisotropic spinning dopes of polycarbonamides. 3,673,143, 6-27-72, Cl. 260-30.200.

Baird Chemical Industries, Inc.: *See—*
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Baird, Eugene M.; and Ullman, John G., to Du Pont de Nemours, E. I., and Company. Spinneret assembly. 3,704,971, 12-5-72, Cl. 425-131.000.

Baird, Jack R.: *See—*
Gaddy, Oscar L.; Holonyak, Nick, Jr.; Sirkis, Murray D.; and Baird, Jack R., 3,636,255.

Baird, Leslie L., to General Electric Company. Protective equipment for an alternating current power distribution system. 3,660,721, 5-2-72, Cl. 317-16.
Baird, Lincoln F. Fluid pressure clamp for prosthetic appliance. 3,671,980, 6-27-72, Cl. 3-20.000.
Baird, Robert Gordon: *See—*
Houston, Herbert James; Baird, Robert Gordon; Bolt, Kenneth Dale; and Gretzinger, Adolf, 3,633,858.
Baird-Atomic, Inc.: *See—*
Bailerlein, George, 3,633,990.
DiRocco, James V., 3,634,688.
Habosian, Kaspar, 3,650,630.
Ploss, Richard S., 3,644,017.
Baisod-Atomic, Inc.: *See—*
Swain, James Bert; and Jeffries, David, 3,689,154.
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Baisz, George J.; and Shonka, Francis R.; deceased (by Shonka, Louis M.; administratrix), to United States of America, Atomic Energy Commission. Miniature coaxial cable connector. 3,701,080, 10-24-72, Cl. 339-48.000.
Baitinger, William Frederick, Jr.: *See—*
Weyker, Robert George; Baitinger, William Frederick, Jr.; and De Marco, John Gregory, 3,669,609.
Baitinger, William Frederick, Jr., to American Cyanamid Company. Aliphatic amides as light stabilizers for pigmented polymers. 3,639,333, 2-1-72, Cl. 260-41.
Bajars, Laimonis: *See—*
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Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, 3,655,805.
Croce, Louis J.; and Bajars, Laimonis, 3,666,687.
Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, 3,670,042.
Bajek, Walter A.; and McLaughlin, James H., to Universal Oil Products Company. Octane number control of distillation column bottoms by varying heat input. 3,647,634, 3-7-72, Cl. 196-132.
Bajek, Walter A.; and McLaughlin, James H., to Universal Oil Products Company. Octane number control of distillation column overhead by varying reflux. 3,647,635, 3-7-72, Cl. 196-132.
Bajek, Walter A.; and McLaughlin, James H., to Universal Oil Products Company. Control of reaction zone severity by response to octane number of effluent liquid phase. 3,649,202, 3-14-72, Cl. 23-253.
Bajek, Walter A.; and Boyd, David M., Jr., to Universal Oil Products Company. Radioactive radiation-type fluid interface detection system. 3,668,392, 6-6-72, Cl. 250-43.5.
Bajer Industries Incorporated: *See—*
Lang, Marshall Ira, 3,685,235.
Bajo, Ricardo. Decorative party device. 3,702,675, 11-14-72, Cl. 229-7.00r.
Bajusz, Harold F., to Accutec, Inc. Twist-action retracting mechanism for use in writing instruments. 3,672,783, 6-27-72, Cl. 401-116.000.
Bak, Aloysius; and Resh, Roy E., to Bendix Corporation, The. Means for measuring the density of fluid in a conduit. 3,688,188, 8-29-72, Cl. 324-58.50c.
Bakassian, Georges; and Bazouin Andre, to Rhone-Poulenc S.A. Preparation of siloxanes by redistribution. 3,646,088, 2-29-72, Cl. 260-448.2.
Bakassian, Georges; and Bazouin, Andre, to Rhone-Poulenc S.A. Process for the preparation of bis(triorg anosilyl) actylene. 3,652,625, 3-28-72, Cl. 260-448.2.
Bakassian, Georges; and Bazouin, Andre, to Rhone-Poulenc S.A. Process for the preparation of compounds with triorganosilylethynyl groups. 3,652,626, 3-28-72, Cl. 260-448.2.
Bakassian, Georges; Marin, Gilbert; and Lefort, Marcel, to Rhone-Poulenc S.A. Process for the alkylation of organosilicon halides. 3,658,865, 4-25-72, Cl. 260-448.2.
Bake, Earl A., to Rockwell Manufacturing Company. Valve flow transition. 3,643,914, 2-22-72, Cl. 251-124.
Bake, Earl A.; Pool, Eldert B.; Hankosky, Andrew; Milleville, Bertram J.; and Fowler, John Hyde, to Rockwell Manufacturing Company. Valve assemblies. 3,685,536, 8-22-72, Cl. 137-338.000.
Bakel, Joseph F.; and Rogers, George L., to General Electric Company. Numerical control system for providing a constant rate of metal removal. 3,665,170, 5-23-72, Cl. 235-151.11.
Bakelite Xylonite Limited: *See—*
Fletcher, Clive R., 3,673,987.
Normanton, James K., 3,645,929.
Normanton, James K., 3,645,930.
Normanton, James K., 3,645,931.
Webster, Joseph George; and Tuck, William Henry, 3,662,057.
Bakeman, Orville R.; and French, Allen D., to General Electric Company. Laser oscillator construction. 3,675,153, 7-4-72, Cl. 331-94.500.
Baken, J. A. G., to Du Pont de Nemours, E. I., and Company. Stuffer box crimper lubricating system. 3,662,439, 5-16-72, Cl. 28-1.6.
Baker, Alan Anthony: *See—*
Palfreyman, Jack; Middleton, Henry Edward; and Baker, Alan Anthony, 3,632,460.
Baker, Alan Stuart; and Water, Julian Alfred, to Imperial Chemical Industries Limited. Process for preparing a dispersion of spherical aggregates of amphipathic polymer. 3,661,835, 5-9-72, Cl. 260-34.200.
Baker, Alan Stuart; and Walbridge, Derek John, to Imperial Chemical Industries Limited. Condensation polymers. 3,669,939, 6-13-72, Cl. 260-78.00a.
Baker, Alexander; and Vosika, Eugene A., to Integrated Mechanical Systems, Inc. Electronic component handler and tester. 3,655,041, 4-11-72, Cl. 209-81.
Baker, Alfred Dickens: *See—*
Sharpe, John William; and Baker, Alfred Dickens, 3,686,704.
Baker, Alfred Dickens, to Lucas, Joseph, (Industries) Limited. Lighting systems for road vehicles. 3,638,069, 1-25-72, Cl. 315-82.
Baker, Alfred Dickens, to Lucas, Joseph, (Industries) Limited. Lighting systems for road vehicles. 3,700,878, 10-24-72, Cl. 240-7.1lj.
Baker, Allan, to United Kingdom Atomic Energy Authority. Refuelling means for nuclear reactors. 3,635,792, 1-18-72, Cl. 176-32.
Baker, Allister L., to Keuffel & Esser Company. Drafting machine scale locking device. 3,638,320, 2-1-72, Cl. 33-79.
Baker, Allister L., to Keuffel & Esser Company. Portable drafting device. 3,672,062, 6-27-72, Cl. 33-100.000.
Baker, Basil Offor, to M-O Valve Company Limited, The. Gas discharge device with magnetic means for extinguishing the discharge. 3,636,407, 1-18-72, Cl. 315-344.
Baker, Bernard James: *See—*
Martin, Anthony Eugene Joseph; and Baker, Bernard James, 3,660,975.
Martin, Anthony Eugene Joseph; Skinner, Robert Thomas John; and Baker, Bernard James, 3,662,495.
Baker, Bernard S., to Institute of Gas Technology. Storage battery electrolyte. 3,663,295, 5-16-72, Cl. 136-6.
Baker, Calvin Lee; and Rogers, Clarence H. Vertically adjustable trailer hitch. 3,679,233, 7-25-72, Cl. 280-476.00r.
Baker Castor Oil Company, The: *See—*
Smith, Malcolm K., 3,661,782.
Baker, Charles E., to Texas Instruments, Incorporated. Method and apparatus for displaying coherent light images. 3,650,608, 3-21-72, Cl. 350-320.
Baker, Charles Edward, II; and Casciotti, Albert, to AMP Incorporated. Multi-contact electrical connector. 3,671,921, 6-20-72, Cl. 339-59.00m.
Baker, Charles L.: *See—*
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Baker, Charles P., Jr., to Omark Industries, Inc. Method of lining metallic walled carriers. 3,702,024, 11-7-72, Cl. 29-407.000.
Baker, Charles W. Optical reflector system. 3,693,515, 9-26-72, Cl. 95-4.50r.
Baker, Clarence W. Pipe beveling machine. 3,682,455, 8-8-72, Cl. 266-23.0nn.
Baker, Clifford Aubrey; and Kiefel, Morris Charles. Manufacture of concrete pipes. 3,632,270, 1-4-72, Cl. 425-365.
Baker, Cole: *See—*
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Baker, Cole H.: *See—*
Geis, James D.; Troll, John H.; Gluz, Harry; and Baker, Cole H., 3,678,729.
Baker, Crispin Stuart Leworthy; Barnard, Douglas; and Porter, Maurice Read, to Natural Rubber Producers Research Association, The. Vulcanization of rubber. 3,645,980, 2-29-72, Cl. 260-77.5.
Baker, Cyril F.; and Baker, Florence. Tight rope apparatus. 3,658,325, 4-25-72, Cl. 272-60.
Baker, David R., to Fibreboard Corporation. Air permeable container. 3,706,410, 12-19-72, Cl. 229-16.00r.
Baker, Don R.; Fancher, Llewellyn W.; and McClellan, Malcolm B. Biostatic use of substituted phenylsulfonyl-hydroxamines. 3,644,411, 2-22-72, Cl. 424-286.
Baker, Don R.; Menn, Julius J.; and Freiberg, Ashley H., to Stauffer Chemical Company. Certain 2-benzimidazole alkyl carbamates. 3,658,812, 4-25-72, Cl. 260-240.
Baker, Don R., to Stauffer Chemical Company. Ethynylene containing N-phenyl carbamates. 3,660,465, 5-2-72, Cl. 260-471.
Baker, Don R., to Stauffer Chemical Company. Use of certain oxime esters in controlling fungi upon cellulosic materials. 3,660,580, 5-2-72, Cl. 424-327.000.
Baker, Don R., to Stauffer Chemical Company. Substituted bis(bromoacetoxy)-xylenes. 3,681,439, 8-1-72, Cl. 260-487.000.
Baker, Don R., to Stauffer Chemical Company. Certain 2-benzimidazole carbamates and their utility. 3,692,783, 9-19-72, Cl. 260-240.00j.

Baker, Don Robert, to Stauffer Chemical Company. 2,2,3,4,5,5-Hexachloro-2,5-dihydrothiophene 1,1 dioxide and its use. 3,666,773, 5-30-72, Cl. 260-332.100.

Baker, Donal E., to Westinghouse Electric Corporation. DC power controller with static switching elements and common current feedback transformer between direct voltage source and load. 3,671,844, 6-20-72, Cl. 321-2.000.

Baker, Donal E., to Westinghouse Electric Corporation. DC static switch circuit with a main switch device and a power sharing circuit portion. 3,697,860, 10-10-72, Cl. 323-9.000.

Baker, Donald E., to Oakes, E. T., Corporation, The. Mixing apparatus. 3,652,062, 3-28-72, Cl. 259-9.

Baker, Donald H.; and Kallio, Frank H., to Sperry Rand Corporation. Compass system and components therefor having automatic field cancellation. 3,678,593, 7-25-72, Cl. 33-222.000.

Baker, Donald H.; and Brickner, David R., to Sperry Rand Corporation. Compass calibrator. 3,683,668, 8-15-72, Cl. 73-1.00e.

Baker, Donald H.; Brickner, David R.; and Manning, Kenzel P., to Sperry Rand Corporation. Gyromagnetic compass system. 3,691,643, 9-19-72, Cl. 33-222.000.

Baker, Donald L. Game apparatus including swivelable projector and pivotable targets. 3,647,213, 3-7-72, Cl. 273-101.

Baker, Donald R.: *See—*
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Williamson, Clyde E.; and Baker, Donald R., 3,698,958.

Baker Drapery Corporation: *See—*
Baker, George H., Sr., 3,697,035.

Baker, Edgar Braddbury, to Borden, Inc. Bonding with vinyl acetate polymer modified resorcinol-base adhesive. 3,681,168, 8-1-72, Cl. 156-332.000.

Baker, Edmond M.: *See—*
Mellen, Edward J., Jr.; Baker, Edmond M.; and Webb, John M., 3,654,984.

Baker, Edward C. Detachable power auger assembly. 3,662,844, 5-16-72, Cl. 175-18.000.

Baker, Elton N., to Fotel, Inc. Graphic aid and methods related thereto. 3,657,983, 4-25-72, Cl. 95-85.

Baker Equipment Engineering Co., Inc.: *See—*
Milner, Edwin Earl, Jr., 3,670,849.

Baker, Eric William. Seed sheets. 3,659,396, 5-2-72, Cl. 53-180.

Baker, Florence: *See—*
Baker, Cyril F.; and Baker, Florence, 3,658,325.

Baker, Frederick A., to Alltrack Vehicles Limited. Protective storage structure for snow-mobiles. 3,658,358, 4-25-72, Cl. 280-150.

Baker, George H., Sr., to Baker Drapery Corporation. Drapery support. 3,697,035, 10-10-72, Cl. 248-260.000.

Baker, George W. Apparatus for expanding a cylindrical vacuum cooling chamber. 3,640,419, 2-8-72, Cl. 220-5.

Baker, Gerald E.: *See—*
Barnett, Eugene J.; and Baker, Gerald E., 3,633,561.

Baker, Gerald S., to Cameron Iron Works, Inc. Apparatus for controlling well pressure. 3,677,353, 7-18-72, Cl. 175-25.000.

Baker, Harold L., to Rayette-Faberge, Inc. Method and apparatus for screen molding three-dimensional objects. 3,658,977, 4-25-72, Cl. 264-130.

Baker, Harry L. Applicator. 3,642,000, 2-15-72, Cl. 128-238.

Baker, Hayward. Fluid flow transfer device. 3,655,298, 4-11-72, Cl. 417-196.

Baker, J. T., Chemical Company: *See—*
Brandt, Marcus K., 3,667,607.
Brandt, Marcus K., 3,667,917.

Baker, James B.: *See—*
Vlach, John J.; Baker, James B.; Burnham, Edward H.; Lavander, Edward J.; and Schluntz, Gary L., 3,649,114.

Baker, James G., to Polaroid Corporation. Method and apparatus for generating surfaces of revolution. 3,664,065, 5-23-72, Cl. 51-100.

Baker, James G., to Polaroid Corporation. Compact folding reflex camera. 3,678,831, 7-25-72, Cl. 95-13.000.

Baker, James G., to Polaroid Corporation. Schmidt optical system suitable for a panoramic scanning camera including means to compensate for variations in off-axis magnification. 3,679,293, 7-25-72, Cl. 350-184.000.

Baker, James G., to Polaroid Corporation. Panoramic optical system. 3,689,132, 9-5-72, Cl. 350-189.000.

Baker, James G., to Polaroid Corporation. Compact four element objective lens. 3,695,750, 10-3-72, Cl. 350-221.000.

Baker, James Noel: *See—*
Mitchell, Phillip G.; Hagans, Fredrick S.; Baker, James Noel; and McClendon, Glenn R., 3,646,514.

Baker, Jerry D.: *See—*
Barry, Henry F.; Hallada, Calvin J.; and Baker, Jerry D., 3,658,464.
Stuller, Howard E.; and Baker, Jerry D., 3,666,034.

Baker, John Gordon, to Baker Manufacturing Company. Well cap and seal therefor. 3,645,332, 2-29-72, Cl. 166-75.

Baker, Joseph S.; Marsan, Mario S.; and Duncan, Robert C., to Procter & Gamble Company, The. Disposable article with moisture-actuated indicating agent. 3,675,654, 7-11-72, Cl. 128-287.000.

Baker, Joseph W.: *See—*
Schumacher, Ignatius; and Baker, Joseph W., 3,632,829.

Baker, Joseph W., to Monsanto Company. N,N-diallyl-3,4-dichlorobenzenesulfonamide. 3,642,892, 2-15-72, Cl. 260-556.

Baker, Joseph W.; and Bachman, Gerald L., to Monsanto Company. 3(2-sec-Butyl-4,6-dinitrophenoxy)-1,2-benzisothiozole 1,1-dioxide. 3,673,200, 6-27-72, Cl. 260-301.000.

Baker, Joseph W.; and Howe, Robert K., to Monsanto Company. Anilinomethynemalonitriles. 3,691,227, 9-12-72, Cl. 260-465.00e.

Baker, Joseph W. Ball valve. 3,697,043, 10-10-72, Cl. 251-315.000.

Baker, Keith: *See—*
O'Keefe, David F., 3,658,266.

Baker, Lamar T., to General Instrument Corporation, mesne. Chip select circuit for multi-chip random access memory. 3,644,904, 2-22-72, Cl. 340-173.

Baker, Lamar T., to General Instrument Corporation, mesne. Single device storage cell for read-write memory utilizing complementary field-effect transistors. 3,644,905, 2-22-72, Cl. 340-173.

Baker, Lamar T., to General Instrument Corporation, mesne. Memory utilizing the non-linear input capacitance of an MOS device. 3,656,119, 4-11-72, Cl. 340-173.

Baker, Larry W.: *See—*
Halopoff, William; and Baker, Larry W., 3,683,652.

Baker Manufacturing Company: *See—*
Baker, John Gordon, 3,645,332.

Baker, Martin L., to Optical Coating Laboratory, Inc. Optical monitoring apparatus utilizing fiber optics. 3,636,917, 1-25-72, Cl. 118-9.

Baker, Marvin Odell. Automatic switch for vent fans in bathrooms. 3,632,953, 1-4-72, Cl. 200-84.

Baker, Mary Joan H.; and Baker, Robert C. Packet technology. 3,647,305, 3-7-72, Cl. 401-7.

Baker, Nelson H., Jr.: *See—*
Sweet, Larrie H.; and Baker, Nelson H., Jr., 3,668,831.

Baker Oil Tools, Inc.: *See—*
Chenoweth, David V., 3,648,786.
Chenoweth, David V.; and Crowe, Talmadge L., 3,648,787.
Cockrell, Darryl W.; and Callihan, Rudy B., 3,678,998.
Conrad, Martin B., 3,633,673.
Curington, Alfred R., 3,692,122.
Dean, Michael R., 3,667,543.
Kammerer, Archer W., Jr.; and Johnson, Gary R., 3,684,041.
Kammerer, Archer W., Jr.; and Johnson, Gary R., 3,703,213.
Salerni, John V., 3,638,724.
Vazquez, Gonzalo; and Salerni, John V., 3,633,668.

Baker, Paul I. Equipment accessory locking apparatus. 3,646,786, 3-7-72, Cl. 70-59.

Baker Perkins Inc.: *See—*
Bourbina, Gerand W., 3,659,717.
Gendron, Roger J.; and Sims, Dewitt, 3,658,194.
Irving, Henry F., 3,642,406.
Levi, George A., 3,670,665.
Mc Manus, Lynn S., 3,700,121.
McElroy, Larry N.; and Shores, Varo A., 3,666,386.
Miler, Richard W., 3,673,298.
Temple, Hiram E., 3,677,393.

Baker Perkins Jaxons Limited: *See—*
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Baker Perkins Limited: *See—*
Edwards, Albert, 3,704,743.
Stapleford, Leonard Ernest, 3,661,079.
Steels, Gordon, 3,698,309.

Baker, Peter John; Gale, Graham John; and Jacobs, Barry Edward Adrian. Fluid pulsing device. 3,693,646, 9-26-72, Cl. 137-81.500.

Baker, Philip G., to Polaroid Corporation. System for rupturing a pod containing processing fluid for photographic apparatus. 3,641,909, 2-15-72, Cl. 95-89.

Baker, Philip G.; Cook, Gerald H.; and Downey, Rogers B., to Polaroid Corporation. System for rupturing pod containing processing fluid for photographic material. 3,687,051, 8-29-72, Cl. 95-89.00r.

Baker, Randolph H.: *See—*
Knight, Chesterton S.; and Baker, Randolph H., 3,705,434.

Baker, Richard H., to Massachusetts Institute of Technology. Memory system employing capacitance storage means. 3,705,391, 12-5-72, Cl. 340-173.0ca.

Baker, Richard W.: *See—*
Blazek, James J.; Baker, Richard W.; and Wilson, Charles P., Jr., 3,660,274.

Baker, Richard William: *See—*
McDaniel, Carl V.; Baker, Richard William; and Rundell, Clark Ace, 3,692,665.

Baker, Robert C.: *See—*
Baker, Mary Joan H.; and Baker, Robert C., 3,647,305.

Baker, Robert G.; and Rosen, Samuel R., to Nordson Corporation. Modular applicator system. 3,690,518, 9-12-72, Cl. 222-504.000.

Baker, Robert H. Golf club head cover temporary retaining device. 3,638,284, 2-1-72, Cl. 24-73.

Baker, Robert M., to Phillips Petroleum Company. Stabilized flameproofed thermoplastic compositions. 3,652,494, 3-28-72, Cl. 260-45.85.

Baker, Robert S. Apparatus for making pre-stressed concrete members. 3,666,385, 5-30-72, Cl. 425-111.

Baker, Ronald; and Storer, Thomas Kirkly, to Imperial Chemical Industries Limited. Production improvement for substituted triazine. 3,691,164, 9-12-72, Cl. 260-249.800.

Baker, Ronald E.; Fogarty, Robert L.; and Slagel, Edwin C., to Goodyear Aerospace Corporation. Self sealing composite. 3,698,587, 10-17-72, Cl. 220-9.00f.

Baker, Slade H., 60% to Burnight, T. Robert. Lawn sprinkler. 3,633,826, 1-11-72, Cl. 239-229.

Baker, Stephen R.; and Kremer, Harry D., to Bethlehem Steel Corporation. Method for applying fittings to strand ends. 3,631,914, 1-4-72, Cl. 164-112.

Baker, Theodore H.; and Tuman, Daniel, to International Business Machines Corporation. Integrated circuit structure having a unique surface metallization layout. 3,689,803, 9-5-72, Cl. 317-101.00a.

Baker, Thomas D.; and Ojala, William K., to Ford Motor Company. Exhaust gas recirculation control mechanism. 3,678,909, 7-25-72, Cl. 123-119.00a.

Baker, Thomas N., III: *See—*
Bonetti, Giovanni A.; Baker, Thomas N., III; and Capaldi, Eugene C., 3,642,919.

Baker, Thomas, N., III; and Bonetti, Giovanni A., to Atlantic Richfield Company. 3,3-Dimethyl-4,5-epoxypentene-1 and polyethers thereof. 3,652,523, 3-28-72, Cl. 260-88.3.

Baker, Wallace L. Cow controller. 3,685,492, 8-22-72, Cl. 119-27.000.

Baker, William; Worrell, Clyde; and Banzhaf, Donald Howard. Composite beam structure and assembly. 3,698,149, 10-17-72, Cl. 52-731.000.

Baker, William A.: *See—*
Vieson, John W.; and Baker, William A., 3,670,474.

Baker, William H. Perimeter skimming gutter for swimming pools. 3,668,712, 6-13-72, Cl. 4-172.170.

Baker, William H. Fluid flow and/or fluid pressure responsive gate weir. 3,668,713, 6-13-72, Cl. 4-172.170.

Baker, William H. Nonflooding perimeter skimming gutter for swimming pools. 3,668,714, 6-13-72, Cl. 4-172.170.

Baker, William H. Expansible drive rivet. 3,691,924, 9-19-72, Cl. 85-68.000.

Baker, William H., to Fluoroware, Inc. Detachable handle for receptacle. 3,701,558, 10-31-72, Cl. 294-33.000.

Baker, William J.: *See—*
Winkler, Robert L.; and Baker, William J., 3,656,733.

Baker, William J.; and Hurst, Richard J., to Gardner-Denver Company. Conductor wrapping tool. 3,675,861, 7-11-72, Cl. 242-7.170.

Baker, William W. Cigarette extinguisher receptacle. 3,651,817, 3-28-72, Cl. 131-237.

Baker, William W. Combination vehicle stabilizer and bug deflector. 3,695,674, 10-3-72, Cl. 296-1.00s.

Baker-Roos, Inc.: *See—*
Roggie, William Clark, 3,675,736.

Bakermans, Johannes C. W., to Berg Electronics, Inc. Method for mounting wire wrap pins on circuit boards. 3,664,015, 5-23-72, Cl. 29-625.

Bakewell, Joseph J., to Dynamics Research Corporation. Method of making precision conductive mesh patterns. 3,703,450, 11-21-72, Cl. 204-11.000.

Bakewell, Thomas W., to General Motors Corporation. Seal with variable sealing lip pressure. 3,667,767, 6-6-72, Cl. 277-95.000.

Bakewicz, Frank J.; and McGarvey, Robert G., to General Motors Corporation. Retractable closure. 3,690,722, 9-12-72, Cl. 296-137.00r.

Bakhtin, Jury Grigorievich: *See—*
Ryss, Jury Samuilovich; Bakhtin, Jury Grigorievich; Panteleimonov, Vladimir Mikhailovich; and Alexeev, Alexei Illarionovich, 3,659,192.

Bakiras, Spiro: *See—*
Stone, John Alexander; Lamster, Hal Bernhard; Baker, Charles L.; and Bakiras, Spiro, 3,681,755.

Bakka, Richard Leo, to Economics Laboratory, Inc. Iodine detergent composition. 3,650,966, 3-21-72, Cl. 252-106.

Bakke, Jan Magnus; and Hakansson, Christer Lennart Lennart, to Aktiebolaget Bofors. Method of oxidizing 1,2-diaryl ethanols with nitric acid to corresponding ketones. 3,637,857, 1-25-72, Cl. 260-590.

Bakke, Jan Magnus; Heikman, Harald Erik; Hakanson, Christer Lennart; and Nilsson, John Martin, to Aktiebolaget Bofors. Method of producing O-aminobenzamide. 3,694,505, 9-26-72, Cl. 260-558.00a.

Bakke, Jan Magnus; and Heikman, Harald Erik, to Aktiebolaget Bofors. Method of producing indole. 3,699,120, 10-17-72, Cl. 260-319.100.

Bakke, Roger M., to International Business Machines Corporation. Dual mode process control with continuous feedback during coarse mode. 3,657,524, 4-18-72, Cl. 235-150.1.

Bakke, Roger M., to International Business Machines Corporation. Dead time process regulation. 3,671,725, 6-20-72, Cl. 235-150.100.

Bakker, Donavon L.; and Miller, Walter L., to Butler Manufacturing Company. Feeder for livestock. 3,695,415, 10-3-72, Cl. 198-110.000.

Bakker, Johannes M. B., to Shell Oil Company. Time-of-flight mass spectrometer with step-function-controlled field. 3,634,683, 1-11-72, Cl. 250-41.9.

Bakker, Johannes Petrus. Patient lifting apparatus. 3,694,829, 10-3-72, Cl. 5-81.000.

Bakker, Lubertus, to Air Preheater Company, Inc., The. Sludge burner. 3,678,870, 7-25-72, Cl. 110-8.00r.

Bakker, Martinus Antonius Maria: *See—*
Masselink, Annegien; Bakker, Martinus Antonius Maria; and Visser, Bauke, 3,707,358.

Bakker, Nicolaas, to Chevron Research Company. C-alkyloxy substituted tert.-butyl amine as lubricating oil detergent. 3,640,855, 2-8-72, Cl. 252-32.7.

Bakker, Wate T., to General Refractories Company. High alumina refractories. 3,640,739, 2-8-72, Cl. 106-65.

Bakker, Wate T., to General Refractories Company. Manufacture of mullite refractory grain and product. 3,642,505, 2-15-72, Cl. 106-65.

Bakker, Wate T., to General Refractories Company. Alumina refractories. 3,652,307, 3-28-72, Cl. 106-65.

Baklien, Asbjorn: *See—*
Roberts, Gwyneth M.; Butt, Faye E.; Baklien, Asbjorn; Gregory, Jocelyn M.; and Kuiper, Jan, 3,658,957.

Baklien, Asbjorn; and Gregory, Jocelyn Margaret, to Imperial Chemical Industries of Australia and New Zealand Limited. Certain anilinoalkyl mercaptans as fungicides. 3,651,088, 3-21-72, Cl. 424-330.

Bako, Erzsebet: *See—*
Harsanyi, Kalman; Reiter, Jozsef; Korbonits, Dezso; Gonczi, Csaba; Takacs, Kalman; Bako, Erzsebet; Leszkovszky, Gyorgy; Tardos, Laszlo; and Vertesy, Csaba, 3,647,809.

Bakoledis, Andrew G., to Olin Corporation. Muzzle bushing assembly for power-actuated fastening tools. 3,675,838, 7-11-72, Cl. 227-8.000.

Bakoledis, Andrew G., to Olin Corporation. Powder-actuated tool. 3,690,536, 9-12-72, Cl. 227-10.000.

Baksay, Ivan. Reducing tube-wall eccentricity in tube intermediates. 3,698,229, 10-17-72, Cl. 72-341.000.

Bakul, Valentin Nikolaevich: *See—*
Vereschagin, Leonid Fedorovich; Yakovlev, Evgeny Nikolaevich; Konyaev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; Novikov, Albert Pavlovich; Bakul, Valentin Nikolaevich; Skripko, Gely Fomich; and Tsypin, Nekhemian Veniaminovich, 3,694,177.

Bakul, Valentin Nikolaevich; Prikhna, Alexei Iosifovich Alexei; Shulzhenko, Alexandr Alexandrovich; and Gerasimovich, Alexei Vladimirovich, to Ukrainsky Nauchno-Issledovatelsky Konstruktorsko-Tekhnologichesky Institut Sinteticheskikh Sverkhtverdykh Materiaov i Instrumenta GosPLANA. Method and device for providing high pressure and high temperature. 3,695,797, 10-3-72, Cl. 425-77.000.

Bakuradze, Georgy Valeryanovich: *See—*
Kiselev, Anatoly Efimovich; Mgebrishvili, Nadar Nikolaevich; Rokva, Marlen Mikhailovich; Makhatadze, Iosif Konstantinovich; Kakhiani, Shalva Viktorovich; Oganov, Sergei Ivanovich; Bakuradze, Georgy Valeryanovich; and Badalov, Petr Mikhailovich, 3,648,475.

Bal Graphics, Inc.: *See—*
Bellinder, Alex J., 3,684,103.

Bala, Mitchell J.; and Blecherman, Sol S., to United Aircraft Corporation. Mechanism for controlling the thickness of a coating in a vapor deposition apparatus. 3,667,421, 6-6-72, Cl. 118-7.000.

Balaban, Martin M.: *See—*
Jackson, Wendell T.; and Balaban, Martin M., 3,690,161.

Balaguer, Rodolio Rodriguez. Outboard motor unit. 3,703,642, 11-21-72, Cl. 290-43.000.

Balaklo, Viktor Nikolaevich: *See—*
Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavrill Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grgorievich; and Lamin, Vladimir Ivanovich, 3,681,863.

Balamuth, Lewis, to Cavitron Corporation. Apparatus for embossing of materials with high frequency vibrations. 3,635,609, 1-18-72, Cl. 18-16.

Balamuth, Lewis, to Ultrasonic Systems, Inc. Ultrasonic cauterization. 3,636,943, 1-25-72, Cl. 128-24.

Balamuth, Lewis, to Ultrasonic Systems, Inc. Ultrasonic home dental instrument and method. 3,636,947, 1-25-72, Cl. 128-66.

Balamuth, Lewis, to Ultrasonic Systems, Inc. Ultrasonic motors. 3,666,975, 5-30-72, Cl. 310-8.200.

Balamuth, Lewis, to Ultrasonic Systems, Inc. Ultrasonic motors and scissors. 3,702,948, 11-14-72, Cl. 310-8.200.
Balance Technology, Inc.: *See—*
Hines, Gordon E.; and Anderson, Ronald W., 3,681,967.
Balassa, Leslie L., to Lescarden Ltd. Use of chitin for promoting wound healing. 3,632,754, 1-4-72, Cl. 424-180.
Balax, Inc.: *See—*
Van Vleet, John M., 3,656,197.
Balazs, Fulop: *See—*
Stefan, Mihaly; Balazs, Fulop; Hegedus, Zoltan; and Tapolcai, Laszlo, 3,650,851.
Balbes, Michael S., to Microdyne Corporation. Intermediate-frequency amplifier with wide-range continuously variable bandwidth selection. 3,633,119, 1-4-72, Cl. 330-21.
Balch, Duane C. Fishing lure. 3,688,430, 9-5-72, Cl. 43-42.060.
Balch, Joseph C., to Thermo-Dynamics Inc. Temperature control tube. 3,648,767, 3-14-72, Cl. 165-106.
Balchan, Anthony S.; and Cowan, George R., to Du Pont de Nemours, E. I., and Company. Method of treating solids with high dynamic pressure. 3,667,911, 6-6-72, Cl. 23-201.
Balchem Corporation: *See—*
Pasin, Z. Joseph, 3,664,963.
Balco, Inc.: *See—*
Balzer, Claude P.; Corman, Edward M.; Reiff, Almer A.; and Kirkwood, Wilber E., 3,659,390.
Bald, Robert E., to Interpace Corporation. Prestressed concrete pipe with anchors for tying joints. 3,642,033, 2-15-72, Cl. 138-103.
Balda Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft: *See—*
Lange, Karl Heinz, 3,631,572.
Lange, Karl Heinz, 3,683,774.
Lange, Karl Heinz, 3,696,725.
Balda-Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft: *See—*
Lange, Karl-Heinz, 3,680,454.
Baldauf, William A., Jr., to United States of America, Atomic Energy Commission. Automatic DC level controlling system for a DC-coupled amplifier. 3,636,462, 1-18-72, Cl. 330-9.
Balder, Arnold, to Kippan GmbH. Tension limited for safety belts in motor vehicles. 3,632,060, 1-4-72, Cl. 242-107.4.
Baldeschwieler, John D. Labeling of molecules using the perturbed angular correlation of gamma radiation. 3,665,192, 5-23-72, Cl. 250-71.500.
Baldeschwieler, John D., to Varian Associates. Ion cyclotron resonance stimulated glow-discharge method and apparatus for spectral analysis. 3,677,642, 7-18-72, Cl. 356-85.000.
Baldi, Albert F.: *See—*
Gendraon, Raymond V.; and Baldi, Albert F., 3,631,972.
Baldi, Luciano: *See—*
Ballini, Giuliano; and Baldi, Luciano, 3,658,732.
Balding, George H., to Kaiser Aerospace & Electronics Corporation. Electronic generator for contact and analog and command information. 3,643,258, 2-15-72, Cl. 343-108.
Baldinger, Charles P., to Boeing Company, The. Means and technique for making radiographic examinations. 3,666,944, 5-30-72, Cl. 250-65.00r.
Baldini, Luigi F., to United States of America, Army. Rod and sabot assembly. 3,662,686, 5-16-72, Cl. 102-93.000.
Baldino, James Peter: *See—*
Jones, Wilford Donald; Baldino, James Peter; and Melamed, Sidney, 3,670,068.
Baldock, Alfred James; and Miles, John Joseph, to Kirkby Process and Equipment Limited. Selective plating machines. 3,657,097, 4-18-72, Cl. 204-202.
Baldratti, Giuliana; Consonni, Alberto; and Sciaky, Roberto, to Societa Farmaceutici Italia. Nitro-steroids and process for their preparation. 3,674,817, 7-4-72, Cl. 260-397.400.
Baldt Anchor and Chain Corporation: *See—*
Linnenbank, Charles D., 3,664,122.
Balducci, Agostino; Baradel, Agostino; and Massino, Marena, to Snam Progetti S.p.A. Process for removing catalyst metal residues from high density polyethylenes. 3,689,473, 9-5-72, Cl. 260-94.90f.
Baldur, Roman, to Borg-Warner (Canada) Limited, mesne. Air cushion lift pad arrangement. 3,692,192, 9-19-72, Cl. 214-1.0be.
Baldwin, Arnold V.: *See—*
Smith, Edward A.; and Baldwin, Arnold V., 3,640,392.
Baldwin, Bradford J.: *See—*
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Baldwin, Brian E., to Affiliated Hospital Products, Inc. Valved connector arrangement. 3,659,587, 5-2-72, Cl. 128-2.00f.
Baldwin, D. H., Company: *See—*
Bunger, David A., 3,696,200.
Corwin, Merton D.; and Dietrich, Walter E., 3,651,733.
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Huggard, Leslie, 3,697,706.
Jordan, John F.; Brean, John W.; and Mathevosian, Yervand, 3,680,951.
Lampkin, Curt M., 3,688,302.
Martin, Daniel W., 3,660,587.
Mathevosian, Yervand, 3,670,325.
Baldwin, David E., Jr., to Continental Oil Company. Simulation of pressure behavior in petroleum reservoirs. 3,702,009, 10-31-72, Cl. 444-1.000.
Baldwin, Edwin C., Jr.; and Wrenner, Warren R., to International Business Machines Corporation. Electron beam deflection control method and apparatus. 3,699,304, 10-17-72, Cl. 219-121.0eb.
Baldwin Electronics, Inc.: *See—*
Wootton, Thomas S., 3,689,888.
Baldwin, Eual E. Rice oil-containing composition for use as cutting, penetrating or lubricating oil. 3,702,301, 11-7-72, Cl. 252-56.00s.
Baldwin, Francis P.: *See—*
Kennedy, Joseph P.; and Baldwin, Francis P., 3,694,377.
Baldwin, J. A., Manufacturing Company: *See—*
Baldwin, Jesse A., 3,685,658.
Baldwin, Jesse A., to Baldwin, J. A., Manufacturing Company. Liquid filters. 3,685,658, 8-22-72, Cl. 210-440.000.
Baldwin, John Granville, to Lucas, Joseph, (Industries) Limited. Electrical systems for road vehicles. 3,651,535, 3-28-72, Cl. 15-250.02.
Baldwin, John J.: *See—*
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Bolhofer, William A.; and Baldwin, John J., 3,691,166.
Baldwin, John J.; and Novello, Frederick C., to Merck & Co., Inc. Substituted imidazoles. 3,691,178, 9-12-72, Cl. 260-294.900.
Baldwin, Kenneth B.; and Sullivan, Ronald D., to Bourns, Inc. Wormagear actuated pontentiometer. 3,701,070, 10-24-72, Cl. 338-162.000.
Baldwin, Philip C., to Burton Electrochemical Co., Inc. Bath for electrolytic deposition of magnetic films. 3,672,968, 6-27-72, Cl. 204-43.000.
Baldwin, Philip S., to Fiat Societa per Azioni. Master cylinder assembly for vehicle hydraulic brake systems. 3,633,367, 1-11-72, Cl. 60-54.6.
Baldwin, Philip Sidney, to Fiat Societa per Azioni. Warning device for use in vehicle hydraulic brake system. 3,651,456, 3-21-72, Cl. 340-60.
Baldwin, Richard H.: *See—*
Olsen, George P.; Towle, Philip H.; and Baldwin, Richard H., 3,639,465.
Baldwin, Roger A.; and Cheng, Ming T., to Kerr-McGee Chemical Corporation, mesne. Phosphorane polyesters and polyamides. 3,674,742, 7-4-72, Cl. 260-47.00p.
Baldwin, Roger E.: *See—*
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Baldwin, Steven: *See—*
Breslow, Ronald; Baldwin, Steven; and Winnik, Mitchell, 3,684,801.
Baldwin, Tony Lewis; and Burton, Roy Harold, to Imperial Chemical Industries Limited. Method and apparatus for making staple-fibre yarns. 3,646,745, 3-7-72, Cl. 57-36.
Baldwin Tool, Inc.: *See—*
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Baldwin, Walton B.; and Burger, Donald A., to Bendix Corporation, The. Fluidic fuel system. 3,675,906, 7-11-72, Cl. 261-23.00a.
Baldwin, Walton Leon, to Dow Chemical Company, The. Phenothiazine stabilized vinyl ester resins. 3,683,045, 8-8-72, Cl. 260-837.00r.
Baldwin, Wiley M.; and Monroe, Raymond, Jr., to Western Electric Company, Incorporated. Tantalum anodes and method of producing. 3,669,635, 6-13-72, Cl. 29-182.000.
Baldwin, Wiley M.; Fuchs, Edward O.; and Sharp, Donald J., said Baldwin and said Sharp assors. to Western Electric Company, Incorporated and said Fuchs and said Swisher assors. to Bell Telephone Laboratories, Incorporated. Scrap tantalum reclamation proces. 3,697,255, 10-10-72, Cl. 75-.5ab.
Baldwin, William C.; and Meyer, Theodore N., to Plasmachem Inc. Sealed silent winch. 3,642,253, 2-15-72, Cl. 254-150.
Baldwin, William C. Two-speed winch. 3,682,442, 8-8-72, Cl. 254-150.000.
Baldwin, William J., to Corning Glass Works. Electron beam scan-laser having photochromic Q-spoiler. 3,639,854, 2-1-72, Cl. 331-94.5.
Baldwin, William K., Sr. Rear view mirror. 3,667,833, 6-6-72, Cl. 350-303.000.
Baldwin, William M., Jr.; and Rayburn, Vincent A., to Western Electric Company, Incorporated. Method of and apparatus for decreasing the spacing between articles. 3,650,142, 3-21-72, Cl. 72-403.
Baldwin-Lima-Hamilton Corporation: *See—*
Kopicko, Walter J., 3,690,805.
Ung, Harry L., 3,637,188.
Baldyga, Joseph W., to Diamond Die & Mold Co. Radius setting gauge. 3,636,636, 1-25-72, Cl. 33-185.
Bales, Joseph H.; Prodger, Brian S.; and Ruppel, Kurt, to Mattel, Inc. Toy hill-climbing system. 3,696,555, 10-10-72, Cl. 46-202.000.
Bales, Walter D.: *See—*
Grant, Jon H.; and Bales, Walter D., 3,641,365.

Bales, Walter D., III; and Cosand, Neal H., to Hughes Aircraft Company. Overload current suppression circuit network. 3,665,250, 5-23-72, Cl. 317-16.000.

Balevski, Angel Tontchev; and Nikolov, Ivan Dimov, to Institut po metaloznanie i technologina metalite. Method for the production of castings from alloys of metals and gases. 3,650,313, 3-21-72, Cl. 164-55.

Balevski, Angel Tontchev; and Nikolov, Ivan Dimov, to Institut po metaloznanie i technologina Metalite. Method of casting volatile metals. 3,693,698, 9-26-72, Cl. 164-119.000.

Balfanz, Glenn F., Jr., to Chicago Metallic Corporation. Lineal air diffuser bar. 3,665,837, 5-30-72, Cl. 98-40.

Balfour, Henry, & Company Limited: *See*—
Kerr, John, 3,649,088.

Balhofer, William A.; and Baldwin, John J., to Merck & Co., Inc. Compositions for inhibiting gastric acid secretion. 3,655,894, 4-11-72, Cl. 424-250.

Balicki, Stanley C. Cable-type lock assembly. 3,696,647, 10-10-72, Cl. 70-49.000.

Baliklock, Raymond R.: *See*—
Kemper, Arthur L.; and Baliklock, Raymond R., 3,696,428.

Balinski, Henry A., to United States Gypsum Company. Cavity shaft wall. 3,702,044, 11-7-72, Cl. 52-30.000.

Balint, Joseph A.: *See*—
Slagg, James E.; Nelson, Grant W.; Moffitt, Jerry T.; and Balint, Joseph A., 3,676,822.

Balint, Lajos, to Hilti Aktiengesellschaft. Apparatus for producing molded bodies of rotation by rolling. 3,679,344, 7-25-72, Cl. 425-366.000.

Balint, Laszlo J.; Roth, David W. H., Jr.; and Snider, Orvill E., to Allied Chemical Corporation. Continuous polyester polymerization apparatus. 3,679,368, 7-25-72, Cl. 23-263.000.

Balint, Laszlo J.; Lazarus, Stanley D.; and Russell, William N., to Allied Chemical Corporation. Process for the preparation of linear condensation polyesters. 3,689,461, 9-5-72, Cl. 260-75.00m.

Balint, Laszlo J.; Lazarus, Stanley D.; and Russell, William N., to Allied Chemical Corporation. Method of esterifying a polycarboxylic acid with a glycol. 3,697,579, 10-10-72, Cl. 260-468.00r.

Balinth, Ivan J.; and Beede, Charles H., to Johnson & Johnson. Pressure-sensitive adhesive polyolefin compounds. 3,635,755, 1-18-72, Cl. 117-122.

Baliski, Stephen: *See*—
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Balkany, John W. Check valve. 3,648,729, 3-14-72, Cl. 137-533.13.

Balkarei, Iosif Mikhailovich: *See*—
Podolsky, Viktor Grigorievich; Balkarei, Iosif Mikhailovich; and Grigoriyants, Sergei Mikhailovich, 3,705,702.

Balke, Rodney W., to Textron, Inc. Aircraft vibration compensation system. 3,635,427, 1-18-72, Cl. 244-17.27.

Balke, Rodney W.; and Kidd, David L., to Textron, Inc. Aircraft vibration compensation system. 3,635,429, 1-18-72, Cl. 244-93.

Balke, Rodney Worth; Lynn, Robert Reed; and Wernicke, Rodney Keith, to Textron, Inc. Rotary wing pylon mounting system. 3,698,663, 10-17-72, Cl. 244-17.270.

Balkema, Charles R.: *See*—
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Balkovic, Joseph A.: *See*—
Serafini, Anthony R.; Balkovic, Joseph A.; Waller, Richard E.; and Wunch, Karl A., 3,636,855.

Ball, Alan; Hayes, Barry James; and Matthews, Albert John, to Ciba Limited. Curable compositions containing an epoxide resin and a copolymer of an olefine hydrocarbon with an olefine ester. 3,641,195, 2-8-72, Cl. 260-837.

Ball, Billie Joe: *See*—
Knowles, James H.; Ball, Billie Joe; and Fitzgerald, Donald F., 3,701,024.

Ball, Brian. Pallets. 3,650,225, 3-21-72, Cl. 108-51.

Ball Brothers Company Incorporated: *See*—
Pickard, John E., 3,660,089.
Scholes, Addison B., 3,687,651.

Ball Brothers Research Corporation: *See*—
Bancroft, James R.; Cleavinger, Richard L.; Hall, James M.; and Harris, Mark, 3,634,691.
Schoep, Vernon R.; and Bullai, Carl N., 3,649,917.

Ball, Charles A. Shelf trim assembly. 3,637,085, 1-25-72, Cl. 211-153.

Ball, Claire G.; Grimm, Arthur C.; and Melville, Thomas, to United States Steel Corporation. Portland cement compositions reinforced with non-round filaments. 3,650,785, 3-21-72, Cl. 106-90.

Ball Corporation: *See*—
Hamilton, Clarence L.; and Hutson, Jack E., 3,648,556.
Hurst, Robert L., 3,641,959.
Jelinek, James W.; Kozlowski, Joseph J.; and Gooding, Jack E., 3,657,640.
Kibler, Ronald A., 3,648,351.
McKee, James R.; and Chastain, James K., 3,640,039.
Mixell, Ronald G.; and Cerny, Daryl D., 3,659,987.
Stacey, David S., 3,637,985.

Ball, Donald H.; and Kawulski, Henry, to IIG Industries, Inc. Centrifugal fan with improved cut off means. 3,684,396, 8-15-72, Cl. 415-53.000.

Ball, Douglas C.; and Neufeld, John W., to Massey-Ferguson Industries Limited. Desk with hidden wiring. 3,635,174, 1-18-72, Cl. 108-150.

Ball, Eric, to Angus, George, & Company Limited. Manufacture of flexible hose pipes. 3,684,602, 8-15-72, Cl. 156-149.000.

Ball, Frank C.; and Knapp, Willard E., to Hydro-Test, Inc. High pressure packing cup. 3,685,544, 8-22-72, Cl. 138-90.000.

Ball, Geo. J., Inc.: *See*—
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Ball, Harry; and Steward, Henry A., to Technical Fabricators, Inc. Rotary filters. 3,651,946, 3-28-72, Cl. 210-387.

Ball, Henry; and Peterson, Hold Le Roy, to RCA Corporation. Automatic beam focusing system. 3,647,952, 3-7-72, Cl. 178-7.2.

Ball, James V., to United States of America, Air Force. Cell pressure-sensing battery case. 3,656,340, 4-18-72, Cl. 73-88.5.

Ball, James V., to Signetics Corporation. Temperature stable integrated oscillator. 3,659,224, 4-25-72, Cl. 331-111.

Ball, Jeremy T., to Chrysler Corporation. Steering column lock inhibitor. 3,659,443, 5-2-72, Cl. 70-186.

Ball, John F.; and Beatty, Rex R., to Motorola, Inc. Chip packaging and transporting apparatus. 3,651,957, 3-28-72, Cl. 214-1.

Ball, Kenneth D.: *See*—
Gryctko, Carl E.; Strobel, Albert; and Ball, Kenneth D., 3,697,714.

Ball, Lawrence E.: *See*—
Coffey, Gerald P.; and Ball, Lawrence E., 3,652,731.
Coffey, Gerald P.; Ball, Lawrence E.; and Duke, June T., 3,683,052.

Ball, Murray E.; and Demeny, Le Roy M., to General Mills, Inc. Food chip and process for making it. 3,656,966, 4-18-72, Cl. 99-83.

Ball, Robert D., to Kearney-National Inc. Separable electrical connectors. 3,668,614, 6-6-72, Cl. 339-111.000.

Ball, Rowland E., to Borg-Warner Corporation. Centrifugal pump with hydrostatic bearing. 3,671,137, 6-20-72, Cl. 415-104.000.

Ball, Rowland E., to Borg-Warner Corporation. Composite knockdown pump. 3,671,138, 6-20-72, Cl. 415-111.000.

Ball Sphere Hinge Syndicate: *See*—
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Ball, Thomas E.; and Anderson, Vincent R., to Honeywell, Inc. Switching device for operating a plurality of switches in sequence with ambient temperature compensation. 3,701,962, 10-31-72, Cl. 337-101.000.

Ball, Wesley L., to Appliance Manufacturing Company, Inc. Control switch for microwave oven. 3,691,329, 9-12-72, Cl. 200-50.00a.

Ball, William John; and Gasson, Edward James, to Distillers Company Limited, The. Production of unsaturated aliphatic acids. 3,670,017, 6-13-72, Cl. 260-530.00n.

Ball, Wolfgang: *See*—
Steigerwald, Klaus; Buechner, Oskar; Ball, Wolfgang; Pfannmueller, Helmut; and Urban, Friedrich, 3,654,253.

Ballad, Erik Rikhardovich: *See*—
Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballad, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, AnatolyIvanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.

Ballam, Jack: *See*—
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Ballandras, Pierre, to Automobiles Peugeot and Regie Nationale des Usines Renault. Device for starting and stopping a diesel engine. 3,668,410, 6-6-72, Cl. 290-38.00r.

Ballantine Laboratories, Inc., mesne: *See*—
Cannara, Alexander B., 3,701,142.

Ballantyne, Earnest Robert, to Ballantyne Manufacturing Company. Foam generating floor cleansing device. 3,670,352, 6-20-72, Cl. 15-4.000.

Ballantyne, Jack R.: *See*—
Wilmot, Richard D.; and Ballantyne, Jack R., 3,705,936.

Ballantyne, Jack R., to Hughes Aircraft Company. Azimuth interpolator. 3,660,842, 5-2-72, Cl. 343-16.00r.

Ballantyne, Jack R., to Hughes Aircraft Company. Adaptive pulse quantizer system. 3,696,415, 10-3-72, Cl. 343-6.5lc.

Ballantyne, Jack R.; and Houck, Melvin E., to Hughes Aircraft Company. Secondary radar defruiting system. 3,705,402, 12-5-72, Cl. 343-6.510.

Ballantyne Manufacturing Company: *See*—
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Ballard, Donnell A.: *See*—
Newton, Robert A.; and Ballard, Donnell A., 3,639,543.

Ballard, Edward C., to Du Pont de Nemours, E. I., and Company. Ethylene/methyl methacrylate hot tack barrier coatings. 3,697,468, 10-10-72, Cl. 260-28.5av.

Ballard, Lee N.: *See*—

Waters, Roy F.; Powell, Howard E.; and Ballard, Lee N., 3,653,875.
Ballard, Louis M.: *See—*
McInnis, Andrew M.; Ballard, Louis M.; Rogers, Waldo I.; Kramer, David C.; and Nielsen, Robert A., 3,639,990.
Ballard, Louis M.; and Rogers, Waldo I., to Rusco Industries, Inc. Electronic reader means for magnetic credit cards and the like. 3,634,657, 1-11-72, Cl. 235-61.11.
Ballard, Louis M. Dental crown elevation. 3,653,127, 4-4-72, Cl. 32-43.
Ballard, Norman D., to United Aircraft Corporation. Electrochemical spark detection system. 3,679,567, 7-25-72, Cl. 204-228.000.
Ballard, Paul E.; and Gannoe, Thomas E., to GTE Sylvania Incorporated. Butt welding and workpiece aligning apparatus. 3,694,613, 9-26-72, Cl. 219-101.000.
Ballard, Thomas B. Cleaning machine with turntable trolley alignment means. 3,656,491, 4-18-72, Cl. 134-56.
Ballard, Wesley D. Multiple blade junked metal shear. 3,641,927, 2-15-72, Cl. 100-98.
Ballard, Wesley D. Junked metal compressing smasher. 3,641,929, 2-15-72, Cl. -233.
Ballard, Wesley D.; and Staley, John H. Mattress spring bellows assembly as for hospitals, and the like. 3,667,075, 6-6-72, Cl. 5-348.
Ballas, Joseph A.; and Penick, Robert A., to Texas Instruments, Incorporated. Process and system for producing circuit artwork utilizing a data processing machine. 3,653,072, 3-28-72, Cl. 444-1.
Ballas, Joseph A.; and Penick, Robert A., to Texas Instruments, Incorporated. Process for generating representations of packages of logic elements utilizing a data processing machine. 3,683,416, 8-8-72, Cl. 444-1.000.
Ballast-Nedam Groep N.V.: *See—*
Wolters, Tjako Aaldrik; and Van Der Veen, Romke, 3,698,573.
Ballato, Arthur D.: *See—*
Guttwein, Gunter K.; Ballato, Arthur D.; and Lukaszek, Theodore J., 3,694,677.
Ballay, Joseph M.: *See—*
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Balle, Gerhard: *See—*
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Balle, Gerhard; and Kolb, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Process of preparing chloromethyl esters of α,β-unsaturated carboxylic acids. 3,641,119, 2-8-72, Cl. 260-486.
Balle, Walter, to Herbert, Leonhard, Maschinenfabrik. Device for cutting cord webs of pneumatic tires. 3,641,855, 2-15-72, Cl. 83-171.
Balle, Walter; and Held, Gerhard, to Herbert, Leonhard, Maschinenfabrik. Tire building-up drum. 3,645,828, 2-29-72, Cl. 156-402.
Balleis, Peter. Toy tops. 3,678,615, 7-25-72, Cl. 46-68.000.
Balleis, Peter. Toy tops. 3,691,673, 9-19-72, Cl. 46-68.000.
Ballenger, Carl H. Endless helical conveyer and belt. 3,664,487, 5-23-72, Cl. 198-136.
Ballenger, William C., to Central Specialties Co. Cord storage reel assembly. 3,698,656, 10-17-72, Cl. 242-106.000.
Ballenger, William G., to Central Specialties Co. Portable litter bag holder. 3,679,160, 7-25-72, Cl. 248-97.000.
Ballentine, John W.; and Chaffin, Frank R., to Shamban, W. S., & Co. Lead screw and nut. 3,698,257, 10-17-72, Cl. 74-424.80r.
Baller, Ernst O.; Crandell, Melvin G.; Pease, Donald L.; and Witinski, Francis D., to Xerox Corporation. Sheet feeding apparatus. 3,674,363, 7-4-72, Cl. 355-14.000.
Ballestra, Mario; and Triberti, Domenico. Synthetic detergent in bar or cake form and the method to manufacture same. 3,639,286, 2-1-72, Cl. 252-109.
Ballew, Earl. Wood chipper. 3,661,331, 5-9-72, Cl. 241-92.
Balli, Frederick K.: *See—*
Cook, Melvin A.; and Balli, Frederick K., 3,660,182.
Balling, Roger A.: *See—*
Calvagna, James F.; and Balling, Roger A., 3,691,528.
Ballingall, Robert G.; and Sanders, Niles G. Lay-down highway delineator post. 3,680,448, 8-1-72, Cl. 94-1.500.
Ballinger, Dale O., to Honeywell Inc. Thermal sensitive recording medium responsive to force fields and apparatus for using same. 3,662,397, 5-9-72, Cl. 346-74.
Ballinger, Dale O., to Honeywell Inc. Magnetic recording apparatus. 3,662,398, 5-9-72, Cl. 346-74.
Ballinger, Dale O., to Honeywell Inc. Recording medium responsive to force fields and apparatus for recording and reproducing signals on the medium. 3,683,382, 8-8-72, Cl. 346-74.00m.
Ballinger, Robert G. Mechanical heat exchanging apparatus. 3,651,862, 3-28-72, Cl. 165-5.
Ballini, Andre: *See—*
Thibaut, Christian; and Ballini, Andre, 3,686,964.
Ballini, Giuliano; and Baldi, Luciano, to Goodrich, B. F., Company, The. Vulcanized elastomeric compositions having improved resistance against air-oxidation and method for making same. 3,658,732, 4-25-72, Cl. 260-5.
Ballis, William L. Automatic pipeline welding method. 3,668,360, 6-6-72, Cl. 219-61.000.
Ballman, Albert A.; and Carruthers, John R., to Bell Telephone Laboratories, Incorporated. Growth of crack-free barium sodium niobate and related materials. 3,647,697, 3-7-72, Cl. 252-62.9.
Ballman, Gray C., to Chargematic, Inc. Battery charge programmers. 3,652,916, 3-28-72, Cl. 320-35.
Ballo, James A.: *See—*
Shelstad, Richard J.; and Ballo, James A., 3,681,805.
Ballou, Clayton R., 1/5 to Hursh, Jack E. Shoring structure. 3,676,972, 7-18-72, Cl. 52-638.
Ballou, John L.: *See—*
Phillips, Ralph L.; and Ballou, John L., 3,659,899.
Ballou, Richard P., to General Motors Corporation. Remote door unlatching apparatus. 3,657,553, 4-18-72, Cl. 307-10.
Ballou, Richard P., to General Motors Corporation. Vehicle headlight control circuit using an auxiliary contact on the dimmer switch. 3,671,802, 6-20-72, Cl. 315-83.000.
Ballou, Richard P., to Physical Electronics Industries, Inc. Solid state window controls. 3,688,173, 8-29-72, Cl. 318-267.000.
Ballsmith, George C.; and Knoche, Richard C. Auxiliary tool handle. 3,654,975, 4-11-72, Cl. 145-75.
Ballu, Vincent Pierre Marie, to Tecnoma. Device for spraying treatment products used particularly for farming. 3,674,208, 7-4-72, Cl. 239-77.000.
Balluff, Robert N., to Tenneco Inc., mesne. Gasoline evaporative emission control. 3,658,042, 4-25-72, Cl. 123-136.
Ballweber, Edward G.: *See—*
Patzelt, Harold I.; Connelly, Lawrence J.; Ballweber, Edward G.; Korzenski, David B.; and Slepicka, Kenneth L., 3,663,518.
Bally Manufacturing Corporation: *See—*
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Tojza, Roman A.; and De Simone, Frank C., 3,696,905.
Ballymore Company: *See—*
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Balm, Gerald J., to International Business Machines Corporation. Single scan character registration. 3,651,462, 3-21-72, Cl. 340-146.3.
Balm Paints Limited: *See—*
Clarke, Michael Raymond; and Filipowicz, Leon, 3,640,931.
Clarke, Michael Raymond; and Filipowicz, Leon, 3,652,472.
Clarke, Michael Raymond; Osmond, Desmond Wilfrid John; and Waite, Frederick Andrew, 3,691,123.
Hopwood, John Joseph; Kershaw, Robert William; and Lubbock, Frederick John, 3,689,445.
Balmat, Georges; and Jaillet, Jéan, to Merlin Gerin. Gas blast circuit interrupter having conducting orifice means. 3,639,712, 2-1-72, Cl. 200-148.
Balme, Maurice; and Ducloux, Maurice, to Rhone-Poulenc S.A. Thermostable polymers obtained from phenols and aromatic tetracarboxylic acid anhydrides. 3,639,340, 2-1-72, Cl. 260-47.
Balme, Maurice; and Ducloux, Maurice, to Rhone-Poulenc S.A. Thermostable resins and their poduction. 3,660,337, 5-2-72, Cl. 260-29.2.
Balmer, Donald F.: *See—*
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Balmer, John D., to Berg Electronics, Inc. Terminal applicator. 3,641,647, 2-15-72, Cl. 29-203.
Balmer, John D.; and Kendall, Jerry A., to Berg Electronics, Inc. Insulation stripper for ribbon cable. 3,706,241, 12-19-72, Cl. 81-9.510.
Balmer, Thomas A.: *See—*
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Balmes, Mark E., Sr., to General Fire Extinguisher Corporation. Pressure indicator. 3,675,722, 7-11-72, Cl. 169-30.000.
Balmes, Michael J., to Graflex, Inc., mesne. Plastic reinforcing edging for picture receiving screen. 3,640,603, 2-8-72, Cl. 350-124.
Baloga, James Michael: *See—*
Davis, Donald William; Baloga, James Michael; and Olmsted, Bruce Chamberlin, Jr., 3,658,184.
Balogh, Edward, Jr., to Burroughs Corporation. Priority resolution network for input/output exchange. 3,638,198, 1-25-72, Cl. 340-172.5.
Balogh, Edward, Jr.; Cook, Daewen J.; Bube, Carl E.; and Airhart, Robert V., to Burroughs Corporation. Method and apparatus for diagnosing operation of a digital processor. 3,688,263, 8-29-72, Cl. 340-172.500.
Balogh, Joseph. Pattern grading method and apparatus therefor. 3,641,674, 2-15-72, Cl. 33-17.
Balogh, Roy: *See—*
Zwight, Daniel H.; and Balogh, Roy, 3,637,043.
Balogh, Roy, to McCabe-Powers Body Company. Mobile derrick. 3,643,815, 2-22-72, Cl. 212-1.
Balogh, Stephen A.: *See—*
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Balon Corporation: *See—*
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Adams, Ladd M., 3,675,420.
Adams, Ladd M., 3,696,695.
Scaramucci, Domer; and Adams, Ladd M., 3,647,179.

Scaramucci, Domer, 3,667,725.
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Balser, Martin: *See—*
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Balske, Robert J.: *See—*
Chupp, John P.; and Balske, Robert J., 3,639,592.
Chupp, John P.; and Balske, Robert J., 3,657,427.
Balske, Robert J., to Monsanto Company. Chloro substituted benzyl triphenyl phosphonium halides as anthelmintics. 3,662,065, 5-9-72, Cl. 424-198.
Balston, W. & R., (Industrial) Limited: *See—*
Farrow, Roger M.; Kimber, Anthony B.; Cole, John Barrington; Miles, John Walter; and Griefiths, Graham Ernest, 3,698,562.
Baltakmens, Gotlibs; and Tourish, John P., to Allied Chemical Corporation. Compositions for removal of finish coatings. 3,650,969, 3-21-72, Cl. 252-143.
Baltar, Jose: *See—*
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Baltazzi, Evan S.; Shelffo, Loren E.; and Moduthagam, Michael, to Addressograph-Multigraph Corporation. Photoelectrostatic copier having a single station for simultaneously applying toner particles and cleaning the photoconductive medium. 3,646,866, 3-7-72 Cl. 355-15.
Baltazzi, Evan S., to Addressograph-Multigraph Corporation. Three-layered reflex electrophotographic recording element. 3,658,518, 4-25-72, Cl. 96-1.4.
Baltazzi, Evan S.; Blanchette, Robert G.; and Minnis, Ralph L., to Addressograph-Multigraph Corporation. Acrylate terpolymer resin binders for photoelectrostatic members. 3,672,889, 6-27-72, Cl. 96-1.800.
Balteau, Paul M. C. R. Magnetic stirrer for conducting dielectric tests on insulating oils. 3,645,508, 2-29-72, Cl. 259-107.
Baltes, Josef. Process for the selective hydrogenation of fats and fatty acids. 3,687,989, 8-29-72, Cl. 260-409.000.
Balthis, David L.: *See—*
Nix, Lawrence A., Jr.; and Balthis, David L., 3,676,591.
Balthis, Joseph H., Jr.; and Gilbert, Walter W., to Du Pont de Nemours, E. I., and Company. Process for the preparation of ferromagnetic chromium oxide by removing water before cooling synthesis mixture. 3,634,030, 1-11-72, Cl. 23-145.
Balthis, Joseph H., Jr., to Du Pont de Nemours, E. I., and Company. Metal phosphate coated ferromagnetic chromium oxide and its preparation. 3,686,031, 8-22-72, Cl. 117-234.000.
Baltimore Aircoil Company, Inc.: *See—*
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Baltimore and Ohio Railroad Company, The: *See—*
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Baltz, Albert L.: *See—*
Vocke, Elmer E.; and Baltz, Albert L., 3,676,643.
Baltz, Albert L.; and Voeke, Elmer E., to Eagle Range and Manufacturing Company. Runner construction for oven rack. 3,675,638, 7-11-72, Cl. 126-339.000.
Baltz, George W. Liquid level device. 3,699,661, 10-24-72, Cl. 33-377.000.
Baltz, George William. Apparatus for storing and removing silage. 3,648,896, 3-14-72, Cl. 222-168.
Baltzer, Otto J., to Trocor, Inc. Suppression of electrostatic noise in antenna systems. 3,694,754, 9-26-72, Cl. 325-377.000.
Baluck, Francis M., to Western Electric Company, Incorporated. Electrical connector. 3,649,957, 3-14-72, Cl. 339-156.
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Balugani, Fabio; and Fornasiero, Paolo, to Societa Italiana Telecomunicazioni Siemens S.p.A. Demodulator for two-frequency communication system. 3,660,771, 5-2-72, Cl. 329-104.
Balve, Robert. Control arrangement for pneumatic hammers. 3,664,233, 5-23-72, Cl. 91-290.
Balven, Martin H., to Emerson Electric Co. Receptacle. 3,672,531, 6-27-72, Cl. 220-4.00r.
Balwe, Thomas: *See—*
Bauer, Johann; Fendel, Kurt; and Balwe, Thomas, 3,691,080.
Balwe, Thomas; Bauer, Johann; and Fendel, Kurt, to Wacker-Chemie G.m.b.H. Process for suspension polymerization of vinyl chloride. 3,663,520, 5-16-72, Cl. 260-87.5.
Balz, Helmut, GmbH: *See—*
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Ban, Itsuki. Device for automatically adjusting the recording level of a tape recorder employing an endless tape. 3,632,895, 1-4-72, Cl. 179-100.22.
Ban, Itsuki. Endless magnetic tape playing time indicating apparatus. 3,632,896, 1-4-72, Cl. 179-100.2.
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Ban, Itsuki. Endless magnetic tape indicator apparatus with automatic index after a tape cycle. 3,632,899, 1-4-72, Cl. 179-100.2.
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Ban, Itsuki. Means for moving member such as cartridge and like for magnetic tape cartridge player. 3,633,921, 1-11-72, Cl. 274-48.
Ban, Itsuki. Tape drive speed changing apparatus. 3,638,952, 2-1-72, Cl. 274-4.
Ban, Itsuki. Magnetic tape automatic recording apparatus having automatic fade-in and fade-out. 3,647,988, 3-7-72, Cl. 179-100.2.
Ban, Itsuki. Apparatus for shifting magnetic head in multitrack tape player. 3,649,030, 3-14-72, Cl. 274-4.
Ban, Itsuki. Control means for moving deck for tape cartridge playing apparatus utilizing plurality of endless magnetic tape cartridges. 3,652,096, 3-28-72, Cl. 274-4.
Ban, Itsuki. Magnetic tape fast feed control apparatus. 3,661,395, 5-9-72, Cl. 274-4.
Ban, Itsuki,. Apparatus for shifting magnetic head in multi-track tape player. 3,663,022, 5-16-72, Cl. 274-4.
Ban, Itsuki. Tape player for playing plurality of magnetic tape cartridges. 3,672,683, 6-27-72, Cl. 274-4.00f.

Ban, Itsuki. Programmed track selecting apparatus. 3,672,686, 6-27-72, Cl. 274-4.00a.
Ban, Itsuki. Sound control apparatus for a magnetic tape player for cutting off sound from the speaker during fast feed. 3,673,345, 6-27-72, Cl. 179-100.20s.
Ban, Itsuki. Endless magnetic tape cartridge removing apparatus. 3,677,557, 7-18-72, Cl. 274-4.00b.
Ban, Itsuki. Tape player for playing a plurality of endless magnetic tape cartridges. 3,682,480, 8-8-72, Cl. 274-4.00f.
Ban, Itsuki. Tape cartridge positioning apparatus. 3,684,296, 8-15-72, Cl. 274-4.00b.
Ban, Itsuki. Tape cartridge play control apparatus. 3,684,297, 8-15-72, Cl. 274-4.00b.
Ban, Itsuki. Tape speed changing apparatus. 3,684,298, 8-15-72, Cl. 274-4.00d.
Ban, Itsuki. Magnetic tape recording and reproducing apparatus using a small cycle time endless tape with movable head for replay. 3,684,840, 8-15-72, Cl. 179-100.2ca.
Ban, Itsuki. Tape playing apparatus for use with plurality of endless magnetic tape cartridges. 3,693,981, 9-26-72, Cl. 274-4.00f.
Ban, Itsuki. Tape drive speed changing apparatus. 3,695,620, 10-3-72, Cl. 274-4.00d.
Ban, Itsuki. Tape player utilizing plurality of endless magnetic tape cartridges. 3,697,083, 10-10-72, Cl. 274-4.00f.
Ban, Itsuki. Programmed track selecting apparatus. 3,697,084, 10-10-72, Cl. 274-4.00f.
Ban, Itsuki. Tape cartridge positioning apparatus. 3,697,085, 10-10-72, Cl. 274-4.00b.
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Cabello, Charles R., 3,675,286.
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Trifunovic, Alexander L.; and Kase, Charles R., Jr., 3,681,819.
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Bando Kiko Co., Ltd.: *See—*
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Prime, Derek Arthur, 3,678,605.
Bang, Mogens W., to Stackpole Carbon Company. Linear motion variable resistor with transverse fine adjustment. 3,648,215, 3-7-72, Cl. 338-122.
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Bang, Veron E.: *See—*
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Hirsch, Roger D., 3,684,043.
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Banister, Lionel W. Electrical cord retracting mechanism. 3,705,962, 12-12-72, Cl. 191-12.400.
Banitt, Elden H.: *See—*
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Banks, Robert L., to Phillips Petroleum Company. Conversion of olefinic hydrocarbons. 3,663,640, 5-16-72, Cl. 260-680.
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Banks, Willard K., to International Business Machines Corporation. Fusing device and method. 3,666,247, 5-30-72, Cl. 263-6.00e.
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Banks, William P.; and Harwood, William H., to Continental Oil Company. Cathodic process for the preparation of tetraalkyl lead compounds. 3,649,481, 3-14-72, Cl. 204-72.
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Bankston, Parker J. Hand exercising and frictional resistant type exercising device. 3,637,205, 1-25-72, Cl. 272-68.
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Banoczi, Joseph A. Disposable recessed cigarette tip. 3,646,944, 3-7-72, Cl. 131-187.
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Banse, Karlheinz Victor Hermann; Seelig, Wolfgang Hagen; Steinger, Jurg Hugo; and Herziger, Gerd Bernd, to Institut fur Angewandte Physik der Universitat Bern. Gas discharge tube for a laser. 3,705,999, 12-12-72, Cl. 313-197.000.
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Banush, Russell S.; and Hagerty, Donald P., to Allied Chemical Corporation. Dissolution of metal with acidified hydrogen peroxide solutions. 3,668,131, 6-6-72, Cl. 252-79.400.
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Barabas, Eugene S.; and Fein, Marvin M., to GAF Corporation. Functional terpolymers of N-vinyl lactams. 3,686,150, 8-22-72, Cl. 260-78.50r.
Barabas, Eugene S.; and Fein, Marvin M., to GAF Corporation. Stable aqueous emulsions. 3,691,125, 9-12-72, Cl. 260-29.6wb.
Barabas, John J., to Castro Convertibles Corporation. Hinged-seat platform for sofa-bed. 3,654,642, 4-11-72, Cl. 5-13.
Barabino, William A., to Safety Research & Engineering Corporation. Tire pressure alarm system. 3,659,264, 4-25-72, Cl. 340-58.
Barach, Howard J.: *See—*
Marshall, Robert A.; and Barach, Howard J., 3,675,780.
Baradel, Agostino: *See—*
Balducci, Agostino; Baradel, Agostino; and Massino, Marena, 3,689,473.
Barainsky, Rudolf F.; Kiefer, Richard; Pankuweit, Hartmut; and Esser, Alfred G., to Deutsche Fibercast GmbH. Centrifugally-cast pipe fittings. 3,642,399, 2-15-72, Cl. 425-117.
Barajas, Joseph W. Brake. 3,677,376, 7-18-72, Cl. 188-341.000.
Baral, William J.: *See—*
Mickelson, Grant A.; Jones, Darryl L.; and Baral, William J., 3,706,693.
Baran, Donald H., to United States Gypsum Company. Wall decorated with panels. 3,681,881, 8-8-72, Cl. 52-29.000.
Baran, John S.: *See—*
Laos, Ivar; and Baran, John S., 3,657,290.
Baran, John S.; and Laos, Ivar, to Searle, G. D., & Co. 3-Oxygenated 11β-methylestr-4-en-17β-ol and esters thereof. 3,652,606, 3-28-72, Cl. 260-397.5.
Baran, John S.; and Laos, Ivar, to Searle, G. D., & Co. 17α-Alkanoyloxy-11β-methyl-19-norpregna-4, 6-diene-3,20-diones and the 6α-chloro-19-norpregn-4-ene-3, 20-diones corresponding. 3,682,986, 8-8-72, Cl. 260-397.450.
Baranauckas, Charles F.: *See—*
Carr, Russell L. K.; and Baranauckas, Charles F., 3,700,695.
Frank, Arlen W.; and Baranauckas, Charles F., 3,678,100.
Frank, Arlen W.; and Baranauckas, Charles F., 3,681,448.
Baranchikov, Vladimir Mikhailovich: *See—*
Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinitsky, Vladimir Mikhailovich; Khirdzheiv, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
Baranowski, Frank, Jr. Torch handle. 3,679,171, 7-25-72, Cl. 251.148.000.
Baranowski, Frank, Jr. Fluid flow control valve. 3,698,427, 10-17-72, Cl. 137-542.000.
Baranowski, Frank, Jr. Calibrated pressure regular. 3,699,998, 10-24-72, Cl. 137-327.000.
Baranowski, Karl F.; and Barrio, Alexander, Jr., to Omark Industries, Inc. Process for forming a saw chain cutter link. 3,696,692, 10-10-72, Cl. 76-112.000.
Baranowski, Leslie B., to Keene Corporation. Apparatus for the purification of oils and the like. 3,675,395, 7-11-72, Cl. 55-164.000.
Baranyi, Anthony J.: *See—*
Connell, Joseph A.; and Baranyi, Anthony J., 3,701,262.
Baranyi, Jozsef; and Lakatos, Laszlo, to Licencia Talalmanyokat Ertekesito Vallalat. Instrumental method and equipment for the determination of the degree of maturity in fruit, particularly in pomaceous fruit. 3,660,034, 5-2-72, Cl. 23-230.
Barassi, Carlo; Lugli, Giuseppe; and Mezzanotte, Mario, to Industrie Pirelli S.p.A., mesne. Multi-material breakers in radial tires. 3,656,533, 4-18-72, Cl. 152-361.
Barassi, Carlo; Lugli, Giuseppe; Mezzanotte, Mario; and Guermandi, Romano, to Industrie Pirelli S.p.A. Radial tire having breaker structure. 3,690,364, 9-12-72, Cl. 152-361.000.
Baratto, Elia: *See—*
Pomella, Piero; Baratto, Elia; and Lauro, Luciano, 3,696,398.
Barba, Diego; D'Agostino, Candido; and Liuzzo, Giuseppe. Desalination of sea or brackish water by multi-stage flash evaporation. 3,684,661, 8-15-72, Cl. 202-173.000.
Barbacsy, Ludwig-Benno; Koerv, Peter; and Mehnert, Walter E., to Messerschmitt-Bolkow-Blohm GmbH. Method of simulating the zero voltage increase by means of measured electrical quantities. 3,684,956, 8-15-72, Cl. 324-107.000.
Barbagallo, Pasquale: *See—*
Alford, Andrew; and Barbagallo, Pasquale, 3,659,468.
Barbarin, Jean-Francois; and Beaumatin, Jacques, to Etat Francais. Seal assembly. 3,704,021, 11-28-72, Cl. 277-180.000.
Barbato, Alexander L.: *See—*
deNora, Vittorio; Meyer, Lewis M.; and Barbato, Alexander L., 3,684,543.
Barbato, Alexander L.; deceased (by Barbato, Patricia J.; executrix), to Diamond Shamrock Corporation. Float measuring device for mercury cells. 3,705,842, 12-12-72, Cl. 204-99.000.
Barbato, Alexander Louis; Laub, Henry William; and Loftfield, Richard Eric, to Electrochemical Industries Corporation, mesne. Horizontal mercury cells. 3,689,384, 9-5-72, Cl. 204-99.000.
Barbato, Patricia J.: *See—*
Barbato, Alexander L., 3,705,842.
deNora, Vittorio; Meyer, Lewis M.; and Barbato, Alexander L., 3,684,543.
Barbeau, Thomas: *See—*
Di Perno, Nicholas; Stiefenhofer, Paul; and Barbeau, Thomas, 3,691,658.
Barbee, Charles L.; Williams, Harlan D.; and Stracener, James R., to Texas Oil Electric Co. Nurse call and alarm system for nursing homes and the like. 3,668,682, 6-6-72, Cl. 340-286.00r.
Barbehenn, Herbert S.; and Williams, Robert F., Jr., to Eastman Kodak Company. Laminated amorphous and crystalline polypropylene sheeting. 3,666,585, 5-30-72, Cl. 156-85.000.
Barbehenn, Herbert S.; Irizarry, James Michael; and Leszyk, Gerald Martin, to Eastman Kodak Company. Photographic paper with polyolefin coating. 3,682,639, 8-8-72, Cl. 96-85.000.
Barber & Nicholls Limited: *See—*
Grewcock, Sidney B.; and Cooper, Alan A., 3,641,790.
Grewcock, Sidney B.; Cooper, Alan; Amos, Arthur; and Sylvester, Paul, 3,668,899.
Barber, Anthony Clifford: *See—*
Woolcock, Alan; and Barber, Anthony Clifford, 3,657,466.
Woolcock, Alan; McDougall, Ian Leich; and Barber, Anthony Clifford, 3,686,750.
Barber, Edgar A., to Combustion Engineering, Inc. Pneumatic conveyor and blender. 3,650,436, 3-21-72, Cl. 222-70.
Barber, Forrest E. Tire condition indicating system. 3,660,816, 5-2-72, Cl. 340-58.
Barber, Franklin D., to Standard Car Truck Company. Dampened railway truck bolster. 3,687,086, 8-29-72, Cl. 105-197.0db.
Barber, Harold W.: *See—*
Afdahl, Ronald L.; and Barber, Harold W., 3,676,981.
Barber, Ivan. Car washing apparatus. 3,691,578, 9-19-72, Cl. 15-21.00d.
Barber, James: *See—*
Lesher, John C., 3,641,539.
Barber, James R. Fertilizer distributor. 3,680,741, 8-1-72, Cl. 222-177.000.
Barber, John A.: *See—*
Nixon, Thomas E.; Barber, John A.; and Nagle, Floyd B., 3,666,699.
Barber, Joseph J., to Houdaille Industries, Inc. Turret indexing control system. 3,675,107, 7-4-72, Cl. 318-601.000.
Barber Manufacturing Company: *See—*
Schiffli, Nicholas W., 3,683,712.
Barber, Michael: *See—*
Green, Brian Noel; and Barber, Michael, 3,689,764.
Barber, Michael D.: *See—*
Allen, William J.; and Barber, Michael D., 3,675,923.
Barber, Stephen W.; and Nelson, William F., to Owens-Illinois, Inc. Luminescent device having rare earth doped silica glass luminescent material. 3,634,711, 1-11-72, Cl. 313-92.
Barber, Walter G.: *See—*
Loxley, Ted A.; Webb, John M.; and Barber, Walter G., 3,640,398.
Loxley, Ted A.; Webb, John M.; and Barber, Walter G., 3,652,248.
Barber, Walter W. Cassette support for camera assembly. 3,693,525, 9-26-72, Cl. 95-31.0ca.
Barber, Warren A., to Singer Company, The. Circuits for controlling solenoid energization to reduce heating. 3,699,399, 10-17-72, Cl. 317-148.50b.
Barber, Wayland F. Expandable collar clasp. 3,672,005, 6-27-72, Cl. 24-81.00d.
Barber, Wayne, to Microwave Development Laboratories, Inc. Method of making waveguide bend. 3,672,202, 6-27-72, Cl. 72-369.
Barber-Colman Company: *See—*
Clements, Ralph E., 3,633,094.
Davies, Everett H., 3,676,572.
Dilling, George R., 3,677,489.
Finkbiner, Roy R., 3,679,490.
Horton, Alfred A., 3,673,479.
Meyers, Elwood J.; and Falk, Earl J., 3,704,077.
Olson, Raymond E.; and Yone, Harold R., 3,696,602.
Peterson, Lawrence M., 3,669,152.
Schach, Albert W., 3,642,093.
Sweger, Russell P., 3,662,241.
Sweger, Russell P., 3,667,539.
Townsend, Franklin L., 3,696,477.
Vaiden, I. Clifford, 3,680,382.
Wiley, William H.; and Johnson, Franklin W., 3,686,485.
Barber-Greene Company: *See—*
Dediemar, Ronald B.; and Schuman, Leroy J., 3,700,182.
Martenson, Earl D.; and Gebhardt, James J., Jr., 3,678,817.
Martenson, Earl D.; and Ingham, Ray E., 3,691,916.
Smith, Fred T., 3,650,370.
Smith, Fred T., 3,693,512.
Walker, Donald E., 3,680,933.
Barbera, Anthony J., to National Aeronautics and Space Administration. Use of unilluminated solar cells as shunt diodes for a solar array. 3,672,999, 6-27-72, Cl. 136-89.000.

Barbera, Melvin A., to Procter & Gamble Company, The. Unsaturated zwitterionic surface active compounds. 3,668,240, 6-6-72, Cl. 260-501.120.
Barberg, Vernon G. Multi-use, body-relaxing furniture unit. 3,695,684, 10-3-72, Cl. 297-1.000.
Barberot, Claude: *See—*
Mathieu, Alexis; and Barberot, Claude, 3,644,578.
Mathieu, Alexis; and Barberot, Claude, 3,705,210.
Barbers Hairstyling for Men, Inc.: *See—*
Barry, James L.; and Mitchell, Terrance R., 3,651,568.
Barberton, Carl Lieb; and Wiener, Murray, to Babcock & Wilcox Company, The. Vapor generator tube arrangement. 3,665,893, 5-30-72, Cl. 122-6.
Barbet, Robert Louis. System for the crating of floatable goods. 3,643,400, 2-22-72, Cl. 53-248.
Barbier, Jean Y., to Intertherm, Inc. Brazed rupture disk assembly. 3,658,206, 4-25-72, Cl. 220-89.00a.
Barbier, Jean-France Leon Paul; and Renard, Guy, to Eastman Kodak Company. Fogged, direct-positive silver halide emulsion containing nitron. 3,679,424, 7-25-72, Cl. 96-109.000.
Barbier, Jean-Pierre; and Feugnet, Jean-Pierre, to Bridel, Laiteries E. Installation for production of soft and washed-curd cheeses. 3,672,056, 6-27-72, Cl. 31-49.000.
Barbier, Maurice, to Societe Nationale des Petroles d'Aquitaine Tour Aquitaine. Process for measuring the sampled amplitude of a seismic signal. 3,698,009, 10-10-72, Cl. 340-155.0cp.
Barbieri, Louis C. Track laying attachment for a vehicle. 3,689,123, 9-5-72, Cl. 305-29.000.
Barbin, Robert Lloyd, to RCA Corporation. Toroidal deflection yoke having asymmetrical windings. 3,668,580, 6-6-72, Cl. 335-213.000.
Barbot, Claude, to Lely, C. van der, N.V. Raking implements. 3,706,191, 12-19-72, Cl. 56-377.000.
Barbour, Alfred R., to Roessing Bronze Company. Method of recovering metallic brass from the skimmings of a brass melting furnace. 3,669,647, 6-13-72, Cl. 75-76.000.
Barbour, Richard R.: *See—*
Decker, Harvey David; McGraw, James Edward; and Barbour, Richard R., 3,632,488.
Barbour, Robert E.: *See—*
Toensing, Eyvand E.; and Barbour, Robert E., 3,634,744.
Barbul, Marius Aurel: *See—*
Georgescu, Eugenia; Ghejan, Ion; Bucur, Victor; Mazare, Theodora; Zirna, Ion; Popescu, Elena Lygia; Budu, Adrian; Olteanu, Bujor; Filotti, Traian Mircea; and Barbul, Marius Aurel, 3,707,509.
Barbul, Marius-Aurel: *See—*
Georgescu, Eugenia; Ghejan, Ion; Bugur, Victor; Zirna, Ion; Mazare, Theodora; Popescu, Elena-Lygia; Olteanu, Bujor; Marculescu, Nicolae; Filotti, Traian-Mircea; Barbul, Marius-Aurel; and Calin, Ion, 3,673,109.
Barch, Fabian P.: *See—*
Daul, George C.; and Barch, Fabian P., 3,632,468.
Barch, John J., to Tenneco Chemicals, Inc. Fungicidal method and composition containing substituted benzylthiocyanates. 3,639,618, 2-1-72, Cl. 424-302.
Barchard, Francis M., to Singer Company, The. Automatic dewatering of gas wells. 3,678,997, 7-25-72, Cl. 166-53.000.
Barcia, Manuel: *See—*
Vazquez, Eugenio A.; and Barcia, Manuel, 3,654,969.
Barclay, Allan Sangster, to Steel Company of Canada, Limited, The. Ballistic shape punch and screw head socket. 3,640,175, 2-8-72, Cl. 85-45.
Barclay, John Claire: *See—*
Bach, Frederick Louis; Barclay, John Claire; and Cohen, Elliott, 3,652,590.
Barclay, John Lynn; Gasson Edward James; and Hadley, David James, to BP Chemicals Limited. Production of unsaturated aliphatic nitriles. 3,681,421, 8-1-72, Cl. 260-465.300.
Barclay, Kenneth M.: *See—*
Lefrancois, Philip A.; and Barclay, Kenneth M., 3,671,185.
Barclay, Ralph R., to Minnesota Mining and Manufacturing Company. Dropout compensator for color television. 3,679,814, 7-25-72, Cl. 178-5.4cd.
Barclay, Robert, Jr.: *See—*
Matzner, Markus; Noshay, Allen; and Barclay, Robert, Jr., 3,701,815.
Barclay, William F.: *See—*
Schneider, Stephen G.; Hultgren, Frank A.; and Barclay, William F., 3,650,848.
Barcomb, James G.; and Kozol, Eugene T., to International Business Machines Corporation. Multiple pitch carriage line spacing. 3,643,039, 2-15-72, Cl. 197-133.
Barcus, Jack L.: *See—*
Porter, Irwin C.; Barcus, Jack L.; Bear, David L.; and Marshall, James E., 3,636,655.
Barcza, Sandor, to Sandoz-Wander Inc. 17α-(3'-Hydroxypropynyl)-substituted steroids. 3,636,012, 1-18-72, Cl. 260-397.4.
Barcza, Sandor, to Sandoz-Wander, Inc. Trialkylsilylmethyl guanidinium salts. 3,636,025, 1-18-72, Cl. 260-448.2.
Barcza, Sandor, to Sandoz-Wander, Inc. Silylmethyl thiopseudourea salts. 3,637,735, 1-25-72, Cl. 260-309.6.
Barcza, Sandor, to Sandoz-Wander, Inc. 1-Silanaphithalenes. 3,637,782, 1-25-72, Cl. 260-448.2.
Barcza, Sandor. Substituted steroids. 3,686,236, 8-22-72, Cl. 260-397.500.
Barcza, Sandor. Substituted silylmethyl imidazoles. 3,692,798, 9-19-72, Cl. 260-309.000.
Bard, C. R., Inc.: *See—*
Bohner, Thomas H.; and Vaillancourt, Vincent L., 3,651,615.
Ericson, Richard E., 3,699,964.
Bard, C. R., Inc., mesne: *See—*
Ericson, Richard E., 3,650,272.
Flores, Mary Alice, 3,665,926.
Bard, Irving Gary, to Delta Data Systems Corporation. Editing system for video display terminal. 3,675,208, 7-4-72, Cl. 340-172.500.
Bard, Jackson F. Signal counter. 3,702,904, 11-14-72, Cl. 179-2.00a.
Bard, John C.; and Olson, Floyd C., to Mayer, Oscar, & Co., Inc. Method of preparing fresh uncured meat products. 3,679,434, 7-25-72, Cl. 99-107.000.
Bard, Martin. Shelf-supporting standard. 3,679,164, 7-25-72, Cl. 248-243.000.
Bard-Hamilton Company, Inc.: *See—*
Reed, Jack Owen, 3,688,764.
Bardahl, Nils, to Siemens Aktiengesellschaft. Device for limiting the power supply upon short-circuit between workpiece and tool in electrolytic metal forming machine. 3,650,940, 3-21-72, Cl. 204-224.
Barden, Allan D., to Rowe International Inc. Refrigeration system for cold drink machines. 3,681,937, 8-8-72, Cl. 62-340.000.
Barden Corporation, The: *See—*
Gould, Robert J., 3,685,877.
McKee, Lewis W., 3,647,269.
Schoen, George J.; and McKee, Lewis W., 3,639,017.
Zeneski, Edmund A., 3,674,356.
Barden, Wayne A.: *See—*
Rozema, Arthur L.; Brady, Lynn J.; and Barden, Wayne A., 3,694,786.
Barder Corporation, The: *See—*
Geffner, Ted, 3,692,371.
Bardet, Jean-Claude, to Societe Internationale de Mecanique Industrielle S.A. Shaft racking. 3,643,966, 2-22-72, Cl. 277-80.
Bardic Systems Limited: *See—*
Barker, John S. N.; and Minter, Ronald H., 3,659,179.
Milward, Gilbert Harold, 3,691,448.
Bardo, Gerald B., to International Business Machines Corporation. Wire forming machine. 3,638,687, 2-1-72, Cl. 140-71.
Bardoneschi, Roland: *See—*
Muller, Georges; and Bardoneschi, Roland, 3,676,461.
Bardos, Andras M. Method and apparatus for inspecting surfaces. 3,695,771, 10-3-72, Cl. 356-210.000.
Bardos, John J.; and Poplawski, Joel J., to International Harvester Company. Hydraulic brake adjustor and equalizer. 3,699,679, 10-24-72, Cl. 60-54.50e.
Bardot, Paul, to Societe pour l'Equipement des Industries Chimiques Speichim. Process and apparatus for drying micro-organisms, in particular edible yeasts. 3,660,908, 5-9-72, Cl. 34-8.000.
Bardutzky, Klaus, to Schneider, Jos., & Co. Iris diaphragm with extra leaf for complete closure. 3,668,995, 6-13-72, Cl. 95-64.
Bardwell, Allen E., to Trident Industries, Inc. Composition for and method of substantially reducing pile-up of cuttings on hole bottom in cable drop drilling. 3,637,030, 1-25-72, Cl. 175-66.
Bardwell, Francis G.; Dobrauz, John W.; and Sobchak, Frank L., to Stewart-Warner Corporation. Scanning head arrangement having servo motor armature secured to shaft on which photocell is carried. 3,704,373, 11-28-72, Cl. 250-202.000.
Bare, Duward J.; and Penk, Chester S., to Blue M Electric Company. Thermocouple bridge temperature control. 3,632,985, 1-4-72, Cl. 219-499.
Bare, Howard J. Modular heat exchanger construction. 3,669,185, 6-13-72, Cl. 165-158.000.
Bare, Thomas M.: *See—*
Suh, John T.; and Bare, Thomas M., 3,700,692.
Barecki, Chester J., to American Seating Company. Cantilever vehicle driver's seat. 3,632,159, 1-4-72, Cl. 296-63.
Barecki, Chester J.; and Hozeski, Kenneth W., to American Seating Company. Vehicle chair unit. 3,632,169, 1-4-72, Cl. 297-425.
Barecki, Chester J., to American Seating Company. Vehicular safety chair. 3,695,689, 10-3-72, Cl. 297-191.000.
Barecki, Chester J.; and Hozeski, Kenneth W., to American Seating Company. Recliner vehicle seat. 3,695,707, 10-3-72, Cl. 297-460.000.
Barecki, Chester J.; and Schneider, Kenneth O., to American Seating Company. Connector assembly for chairs. 3,697,130, 10-10-72, Cl. 297-248.000.
Bareis, Alfred: *See—*
Bergmann, Ewald; and Bareis, Alfred, 3,696,983.

Barello, Joseph G.; Keller, Donald K.; and Rish, Anthony S., to Chrysler Corporation. Seat back latch. 3,632,168, 1-4-72, Cl. 297-379.

Barendsen, Pieter: *See—*
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Barenyi, Bela: *See—*
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Wilfert, Karl; and Barenyi, Bela, 3,659,476.
Wilfert, Karl; and Barenyi, Bela, 3,697,097.

Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Safety steering arrangement. 3,641,834, 2-15-72, Cl. 74-492.

Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Passenger motor vehicle. 3,651,886, 3-28-72, Cl. 180-91.

Barenyi, Bela; Sacco, Bruno; and Renner, Hermann, to Daimler-Benz Aktiengesellschaft. Safety frame structure for motor vehicles, especially passenger motor vehicles. 3,663,034, 5-16-72, Cl. 280-106.

Barett, Charles W. Vent for core boxes and the like. 3,631,918, 1-4-72, Cl. 164-410.

Barfield, C. Verne: *See—*
Crovella, Edward A.; and Barfield, C. Verne, 3,672,353.

Barfield, William G. System for supplying liquids to potted plants. 3,686,792, 8-29-72, Cl. 47-39.000.

Barg, Dora A. Paint cases, palette, and conveyor. 3,672,742, 6-27-72, Cl. 312-232.000.

Bargain, Michel; and Gruffaz, Max, to Rhone-Poulenc S.A. Epoxy resins composition containing a prepolymer of an N, N'bis-imide and a diamine. 3,637,901, 1-25-72, Cl. 260-830.

Bargain, Michel; Combet, Andre; and Grosjean, Pierre, to Rhone-Poulenc S.A. Cross-linked resins. 3,658,764, 4-25-72, Cl. 260-78.

Bargain, Michel, to Rhone-Poulenc S.A. cross-linked polyimides. 3,671,490, 6-20-72, Cl. 260-47.0cp.

Bargain, Michel; Gruffaz, Max; Laurent, Serge; and Mallet, Maurice, to Rhone-Poulenc S.A. Curable compositions of an unsaturated bis-amide, a diamine, and a multicyclic aromatic compound. 3,679,639, 7-25-72, Cl. 260-78.00u.

Bargainnier, Roger B.; and Scheithauer, William, Jr., to Sylvania Electric Products, Inc. Process for producing metal powder containing iron and molybdenum. 3,652,746, 3-28-72, Cl. 264-14.

Barger, Delos R. Grain grinder. 3,638,871, 2-1-72, Cl. 241-255.

Barger, William R., Jr.: *See—*
Garrett, William D.; and Barger, William R., Jr., 3,676,359.

Bargman, Dale L., Jr., to Colorado Leisure Products, Inc. Cross drive for lift jack apparatus. 3,640,502, 2-8-72, Cl. 254-45.

Bargman, Dale L., Jr., to Colorado Leisure Products, Inc. Ratchet-type lift jack unit and lift method for camper bodies and the like. 3,689,029, 9-5-72, Cl. 254-45.000.

Barh, Alfred: *See—*
Hossmann, Marcell; and Barh, Alfred, 3,698,013.

Barhorst, Ralph E.: *See—*
Chiasson, Wilbert A.; Barhorst, Ralph E.; and Muter, Bryce A., 3,688,180.

Barie, Walter P., Jr.; and Franke, Norman W., to Gulf Research & Development Company. Polyepoxide-polyanhydride adhesive composition. 3,637,579, 1-25-72, Cl. 260-41.

Barie, Walter P., Jr.; and Franke, Norman W., to Gulf Research & Development Company. Monoanhydride olefin-maleic anhydride copolymer polyepoxide casting resins. 3,637,904, 1-25-72, Cl. 260-836.

Barie, Walter P., Jr., to Gulf Research & Development Company. Polytetraallyl benzophenonetetracarboxylate. 3,655,499, 4-11-72, Cl. 161-88.

Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., to Gulf Research & Development Company. Liquid stabilizers for vinyl chloride resins. 3,682,853, 8-8-72, Cl. 260-23.0xa.

Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., to Gulf Research & Development Company. Flame-retardant polyurethane compositions comprising a phosphorous-containing polyol and an aromatic carboxylic acid anhydride. 3,684,748, 8-15-72, C. 260-2.5aj.

Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., to Gulf Research & Development Company. Flame-retarded polyurethane compositions comprising a phosphorus-containing polyol and an aromatic carboxylic acid. 3,684,754, 8-15-72, Cl. 260-2.5at.

Baril, Albert, Jr.: *See—*
Mayer, Mayer, Jr.; and Baril, Albert, Jr., 3,707,024.

Barilli, Filippo: *See—*
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Baring, John A., to Honeywell, Inc. Multistylus recording head. 3,653,069, 3-28-72, Cl. 346-139.

Bark, Evert Henry: *See—*
Bylund, Karl Gusten; and Bark, Evert Henry, 3,637,373.

Barkalow, Clare E.; and Folkerth, Ilden R., to Michigan Instruments, Inc. Automatic respirator-inhalation therapy device. 3,662,751, 5-16-72, Cl. 128-145.8.

Barkan, Philip; and Porter, Joseph W., to General Electric Company. High voltage electric circuit breaker with high speed tripping means. 3,646,292, 2-29-72, Cl. 200-82.

Barkan, Philip, to General Electric Company. Cooling scheme for a high-current semiconductor device employing electromagnetically-pumped liquid metal for heat and current transfer. 3,654,528, 4-4-72, Cl. 317-234.

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Barkas, Emanuel, to Mite Corporation. Portable attendance recorder. 3,683,409, 8-8-72, Cl. 346-91.000.

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Barker, Arthur Frederick; and Nack, Edward John, to Du Pont de Nemours, E. I., and Company. Vessel with stabilizer. 3,638,826, 2-1-72, Cl. 220-69.

Barker, Carlton D.: *See—*
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Barker, Fred Vester. Animal trap. 3,681,869, 8-8-72, Cl. 43-66.000.

Barker, Geoffrey Cecil; Gardner, Arthur William; and Pope, Anthony Gerald, to United Kingdom Atomic Energy Authority. Polarograph apparatus. 3,644,824, 2-22-72, Cl. 324-30.

Barker, George E.: *See—*
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Barker, Gerald C.; and Jarrett, Steven M., to Coherent Radiation Laboratories. Pulsed gas ion laser. 3,646,476, 2-29-72, Cl. 331-94.5.

Barker, Graham, to Witco Chemical Corporation. Compatible anionic-cationic surfactant compositions. 3,668,136, 6-6-72, Cl. 252-117.000.

Barker, Graham; and Campbell, Herman W., to Witco Chemical Corporation. Aqueous-based cosmetic detergent compositions. 3,703,481, 11-21-72, Cl. 252-546.000.

Barker, James, to Cities Service Company. Copper hydrate production. 3,635,668, 1-18-72, Cl. 23-147.

Barker, James E., to Cities Service Company. Manufacture of alkali metal phosphates. 3,661,513, 5-9-72, Cl. 23-107.

Barker, James F.: *See—*
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Barker, John S. N.; and Minter, Ronald H., to Bardic Systems Limited. Emergency electric lighting units. 3,659,179, 4-25-72, Cl. 320-2.

Barker, Joseph; and Hanson, Raymond, to USM Corporation. Apparatus for overall sole and heel unit cementing. 3,680,527, 8-1-72, Cl. 118-7.000.

Barker, Joseph, to USM Corporation. Shoe sole molding machines. 3,684,420, 8-15-72, Cl. 425-242.000.

Barker Manufacturing Co., Inc.: *See—*
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Barker, Maynard C., to Bangor Punta Operations, Inc. Conveying arrangement for containers. 3,703,953, 11-28-72, Cl. 198-162.000.

Barker, Michael D.; and Kirby, Peter, to Shell Oil Company. Phospharylated 1,2,5-thiadiazoles. 3,666,768, 5-30-72, Cl. 260-302.

Barker, Richard G.; and Ma, James L., to Union Camp Corporation. Oxidative regeneration method. 3,653,824, 4-4-72, Cl. 23-145.

Barker, Ronald C., to Applied Laser Technology Incorporated. Identification means. 3,668,795, 6-13-72, Cl. 40-2.200.

Barker, Sidney Alan; Somers, Peter John; and Epton, Roger, to McDougall, Ranks Hovis, Limited. Hydrolytic enzymes chemically coupled to cellulose ethers. 3,702,804, 11-14-72, Cl. 195-63.000.

Barker, Sidney Alan; Kennedy, John Frederick; and Cray, Charles John, to Ranks Hovis McDougall Limited. Cellulose carbonates and method for their preparation. 3,705,890, 12-12-72, Cl. 260-228.000.

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Barkey, Kenneth T.; Hunter, C Shelburn; and Predmore, Walter L., Jr., to Eastman Kodak Company. Heat stabilization of polyesters. 3,644,573, 2-22-72, Cl. 260-860.

Barkey, Kenneth T.; and Laird, Lloyd I., to Eastman Kodak Company. Method for preparing linear block copolyesters and product produced thereby. 3,651,172, 3-21-72, Cl. 260-860.

Barkley, Dwight W.: *See—*
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Barkley, James H. Electronic medical warning device. 3,634,885, 1-11-72, Cl. 340-279.

Barkley, John R.; O'Reilly, James J.; and Waring, Robert K., Jr., to Du Pont de Nemours, E. I., and Company. Optical line scanner using the polarization properties of ferroelectric-ferroelastic crystals. 3,701,585, 10-31-72, Cl. 350-150.000.

Barkman, Byron L.; Moe, William West; and Ross, Austin, to Printing Developments, Inc. Mechanisms and circuits for facsimile reproducing systems. 3,678,187, 7-18-72, Cl. 178-6.70r.
Barkov, Nikolai Konstantinovich; Kucherova, Natalya Fedorovna; Kochetkov, Nikolai Konstantinovich; Zhukova, Izida Grigorievna; and Sharkova, Nina Mikhailovna. 3,6-Dimethyl-1,2,3,4,4a,9a-hexahydro α-carboline dihydrochloride. 3,657,254, 4-18-72, Cl. 260-293.55.
Barkovitz, William E.; and Przygocki, Julius V., to American Standard, Inc. Flow balancing restriction in gas scrubber. 3,664,094, 5-23-72, Cl. 55-223.000.
Barkovitz, William E., to American Radiator & Standard Sanitary Corporation. Wet scrubber dust collector. 3,699,748, 10-24-72, Cl. 55-223.000.
Barkow, William Henry, to RCA Corporation. Beam convergence exciter for shadow mask color picture tube. 3,663,907, 5-16-72, Cl. 335-211.000.
Barks, Robert W. Faucet adapter. 3,638,968, 2-1-72, Cl. 285-8.
Barkstrom, Reynold; and Peacock, Peter J., to International Harvester Company. Dial hitch lock for swingable trailer tongue. 3,635,494, 1-18-72, Cl. 280-462.
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Barland, Lauri C., to Flynn & Emrich Company. Stitching head. 3,642,187, 2-15-72, Cl. 227-84.
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Barlow, Conrad R., to Transland Aircraft, Inc. Spraying apparatus and control system therefor. 3,684,177, 8-15-72, Cl. 239-171.000.
Barlow, Conrad R.; and Fergusson, Alexander H. B., to Transland Aircraft, Inc. Spreader. 3,688,952, 9-5-72, Cl. 222-333.000.
Barlow, David O., to Du Pont de Nemours, E. I., and Company. Polyvinyl alcohol coating colors. 3,647,528, 3-7-72, Cl. 117-155.
Barlow, Edson L., Jr., to Multi-Elmac Company. Two-terminal control circuit and power supply. 3,646,560, 2-29-72, Cl. 343-228.
Barlow, Everett P., to Wisconsin Foundry and Machine Company. Fluid power system for a self-contained unloading unit. 3,667,621, 6-6-72, Cl. 214-1.00p.
Barlow, George Edward; Checkland, Peter Bernard; and Edington, Robert Alexander, to Imperial Chemical Industries Limited. Process for producing potentially crimped filaments. 3,651,193, 3-21-72, Cl. 264-168.
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Barlow, Gordon A.; and Glass, Marvin I., to Glass, Marvin, & Associates. Educational toy with phonograph. 3,648,385, 3-14-72, Cl. 35-8.
Barlow, Gordon A., to Glass, Marvin, & Associates. Gravity projected ball game with manually maneuverable target opening. 3,649,019, 3-14-72, Cl. 273-101.
Barlow, Gordon A.; and Breslow, Jeffrey D., to Glass, Marvin, & Associates. Pool type game. 3,653,666, 4-4-72, Cl. 273-126.
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Barlow, Harold Monteagle, to British Railways Board. Hybrid made electric transmission line using accentuated asymmetrical dual surface wanes. 3,668,574, 6-6-72, Cl. 333-155.000.
Barlow, Jan, Jr.; and Pursell, Herbert P., to International Minerals & Chemical Corporation. Production of finely divided potassium sulfate crystals. 3,687,639, 8-29-72, Cl. 23-300.000.
Barlow, John W. Screw and screw driver combination. 3,675,694, 7-11-72, Cl. 145-50.00a.
Barlow, Paul D.; and Marshall, John L., Jr., to Monsanto Company. Regularly tangled compact yarn process. 3,636,601, 1-25-72, Cl. 28-72.12.
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Barmby, David S.: *See—*
Kirsch, Francis W.; Potts, John D.; and Barmby, David S., 3,655,813.
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Barna, Peter. Center, diameter and wall thickness determining device. 3,690,012, 9-12-72, Cl. 33-178.000.
Barnabei, Philip S.; and Vettel, Norbert, to Westinghouse Electric Corporation. Axial positioner and seal for turbine blades. 3,644,058, 2-22-72, Cl. 416-95.
Barnaby, Bernard Sydney; Webb, Graham; and Stevenson, Robert Andrew. Timing signal generators. 3,686,445, 8-22-72, Cl. 179-84.00r.
Barnard, Delbert J. Storage compartment liner with inflatable support ribs. 3,653,710, 4-4-72, Cl. 296-39.
Barnard, Dominic Paul Edmund, to Smith Industries Limited. Plural color lamp indicator. 3,643,255, 2-15-72, Cl. 340-381.
Barnard, Dominic Paul Edward; and Bishop, Brian L. H., to Smiths Industries Limited. Holder for a capless light bulb. 3,648,044, 3-7-72, Cl. 240-8.16.
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Barnard, John D.; Gaito, Carl C.; Giedo, Gary R.; Greene, Thomas G.; Lind, James W.; Perkins, Merlyn H.; and Pross, Charles M., to International Business Machines Corporation. Computer orientated test system having digital measuring means with automatic rage changing feature. 3,648,175, 3-7-72, Cl. 324-115.
Barnard, Mark Carey Sedgwick; Bramley, Hugh Christopher; and Collet, Peter Jacobus, to Leyland Gas Turbines Limited. Rotary regenerative heat exchanger. 3,650,317, 3-21-72, Cl. 165-9.
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Barnard, Paul G.; Starliper, Aaron G.; and Stephenson, James B., to United States of America, Interior. Refining iron-bearing wastes. 3,676,107, 7-11-72, Cl. 75-109.000.
Barnard, Roy Albert Drake, to Rancray Limited. Speculum. 3,702,606, 11-14-72, Cl. 128-17.000.
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Barnes, Bertron Otis. Screw drivers. 3,654,974, 4-11-72, Cl. 145-50.

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Barnes, Charles M.; and Schlender, Blair H., to Bendix Corporation, The. Cone disc lock-on switch. 3,662,370, 5-9-72, Cl. 340-240.

Barnes, David A. Locking equipment coupling pin. 3,658,369, 4-25-72, Cl. 287-52.080.

Barnes, David L., 1/2 to Grossi, Paul A. Method and apparatus for treatment of respiratory disease. 3,667,463, 6-6-72, Cl. 128-194.000.

Barnes, Donald A. Method for treating textile materials. 3,647,526, 3-7-72, Cl. 117-115.

Barnes, Edward; and Nance, Kenneth H., to BP Chemicals Limited. Orchard heaters. 3,663,187, 5-16-72, Cl. 44-40.

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Barnes, Jon F.; and Johnson, James L., to General Tire & Rubber Company, The. Poromeric material having a patent leather-type finish and process for making. 3,671,345, 6-20-72, Cl. 156-77.000.

Barnes, Lell E.; and Morris, David, to Singer Company, The, mesne. Saturated core transient current limiter. 3,671,810, 6-20-72, Cl. 317-20.000.

Barnes, Malcolm L.: *See*—
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Barnes, Paul J. Net sheath. 3,649,011, 3-14-72, Cl. 273-29.

Barnes, Ralph. Method for moulding helmet shells and the like. 3,701,821, 10-31-72, Cl. 264-318.000.

Barnes, Randolph C., to Caterpillar Tractor Company. Hydraulic safety override valve. 3,640,146, 2-8-72, Cl. 74-364.

Barnes, Ray A., to Barnes Anchor, Incorporated. Anchor device for trailers. 3,691,703, 9-19-72, Cl. 52-173.000.

Barnes, Robert Gilbert, Jr.; and Schnick, Arthur Warren, to AMF Incorporated. Electric cigar lighters. 3,662,153, 5-9-72, Cl. 219-265.

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Barnes, Robert L.; Block, William M.; and Grafstein, Danel, to Singer Company, The, mesne. Polysiloxane copolymers derived from the carborane-silicon phthalocyanine monomer. 3,671,489, 6-20-72, Cl. 260-46.50e.

Barnes, Terry B. C. All purpose saw. 3,651,844, 3-28-72, Cl. 145-31.

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Barnes, Vernon M., Jr., to Texaco Inc. Exterior wall structural member for a heat exchanger in a hot-air heater. 3,661,138, 5-9-72, Cl. 126-91.

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Barnes, William Geddes: *See*—
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Barnett, Allen M.; Jensen, Harold A.; and Meikleham, Virginia F., to General Electric Company. Selective uniform liquid phase epitaxial growth. 3,647,578, 3-7-72, Cl. 148-171.

Barnett, Allen M.; Galginaitis, Simeon V.; and Heumann, Frederick K., to General Electric Company. Monolithic semiconductor display devices. 3,703,656, 11-21-72, Cl. 313-108.00d.

Barnett, Barry Roger Michael: *See*—
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Barnett, Buford F.; and Knaus, Gilbert M., to North American Rockwell Corporation. Curing agent for a low resilience diepoxide resin composition. 3,642,695, 2-15-72, Cl. 260-47.

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Barnett, Charles W.H., to United States of America, Army. Composite shell with ceramic base. 3,641,936, 2-15-72, Cl. 102-56.

Barnett, Don C.; and Ganske, Kingston E., to Arvin Industries, Inc. Reversible tape transport system. 3,693,982, 9-26-72, Cl. 274-4.00a.

Barnett, Elben Ray; and Barnett, Raymond Ray, 1/4 to Hogg, Jerry D., 1/4 jointly to Secondo Dalporte and Gentile, Tony. Parallel direct current generators arrangement. 3,665,203, 5-23-72, Cl. 307-84.

Barnett, Eugene J.; and Baker, Gerald E., to Westinghouse Electric Corporation. Built-in self-cleaning wall oven. 3,633,561, 1-11-72, Cl. 126-21.

Barnett, Gerald Wilton; and Inshaw, John Leslie, to Imperial Chemical Industries Limited. Black water-borne coating. 3,666,501, 5-30-72, Cl. 106-14.000.

Barnett, Howard James. Movement responsive alarm system for a vehicle. 3,699,515, 10-17-72, Cl. 340-65.000.

Barnett, Jackson H., Jr. Method of impregnating porous substrates with treating liquids. 3,632,409, 1-4-72, Cl. 117-113.

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Barnett, Kenneth W.: *See*—
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Barnett, Morris A., to Garrett Corporation, The. Self-pressurizing bearings with resilient elements. 3,635,534, 1-18-72, Cl. 308-121.

Barnett, Morris A.; and Silver, Alexander, to Garrett Corporation, The. Coated fluid bearing foils and fabricating method. 3,677,612, 7-18-72, Cl. 308-5.000.

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Barnett, Richard C.; Dark, Joe W.; and Schulze, James L., Sr., said Barnett and Dark assors. to General Electric Company. Gas-fired space heater means. 3,674,005, 7-4-72, Cl. 126-91.00a.

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Barney, John H.; and Carlson, Franklin B., to Oil Shale Corporation, The. Process for retorting oil shale in the absence of shale ash. 3,691,056, 9-12-72, Cl. 208-11.000.

Barney, Walter W. Magnetically coded card structure. 3,651,312, 3-21-72, Cl. 235-61.12.

Barnhardt, Keith F., to General Motors Corporation. Applying field polyimide composition to internal cylindrical surfaces. 3,666,528, 5-30-72, Cl. 117-49.

Barnhart, James W., to Dow Chemical Company, The. Method of lowering serum cholesterol. 3,639,636, 2-1-72, Cl. 424-346.

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Barnthouse, Carl W. Shot blast chamber and impeller liners. 3,660,943, 5-9-72, Cl. 51-9.

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Barnwell, Cleroa W.; and Fogarty, Linda J. Device for the direct transfer of blood from a human to culture bottles. 3,648,684, 3-14-72, Cl. 128-2.

Barny, Jean Jacques, to Societe d'Etudeset de Vente de Materiels pour la Fabrication et le Faconnage du Carton Ondule. Facility for heating a product in strip. 3,668,786, 6-13-72, Cl. 34-43.
Barocca, Aldo J.; and Benedict, Ralph H., to Olin Mathieson Chemical Corporation. Support means for fusees. 3,678,856, 7-25-72, Cl. 102-37.400.
Barochovsky, Antonin; Horacek, Ladislav; Krulik, Zdenek; Snitily, Miloslav; Stancl, Frantisek; and Wilfert, Milos, to Vyzkumny Ustav Bavlnarsky. Spinning machine and method. 3,659,410, 5-2-72, Cl. 57-58.890.
Barogenics, Inc.: *See*—
Moos, Alois J.; and Zeitlin, Alexander, 3,635,074.
Baron, Allen. Particulate cheese-like compositions. 3,635,737, 1-18-72, Cl. 99-140.
Baron, Frank A.; Benner, Roland G.; and Weinberg, Alan E., to Mallinckrodt Chemical Works. Purification of p-aminophenol. 3,694,508, 9-26-72, Cl. 260-575.000.
Baron, Frank A., to Mallinckrodt Chemical Works. Purification of p-aminophenol. 3,703,598, 11-21-72, Cl. 260-575.000.
Baron, George B. Force vector direction control. 3,648,566, 3-14-72, Cl. 91-176.
Baron, George B.; and Thompson, George J. Dipper pitch control for shovels. 3,648,863, 3-14-72, Cl. 214-138.
Baron, Grigory Rakhmielevich: *See*—
Lakiza, Rostislav Ivanovich; Soloviev, Petr Ivanovich; Dukov, Vasily Maximovich; and Baron, Grigory Rakhmielevich, 3,662,991.
Baron, Heinz. Fibre fleece for medical or hygienical purposes. 3,680,561, 8-1-72, Cl. 128-296.000.
Baron, Henry J. Hydrophilic lens. 3,698,802, 10-17-72, Cl. 351-160.000.
Baron, Herschel: *See*—
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Baron, Leonard: *See*—
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Baron, Robert R.: *See*—
Welch, Dean E.; and Baron, Robert R., 3,632,777.
Baron, Robert R.; Berndt, Edward W.; Van Essen, Harold E.; and Brunsting, Edwin L., to Salsbury Laboratories. Coccidiosis control with quinolinol derivatives. 3,636,216, 1-18-72, Cl. 424-258.
Baron, Robert Richard: *See*—
Welch, Dean E.; and Baron, Robert Richard, 3,689,556.
Baron, Thomas Douglas; and Fishwick, Brian, to Imperial Chemical Industries Limited. Ortho nitration of the phenyl diazo component of an azo compound. 3,637,651, 1-25-72, Cl. 260-207.
Barone, Antonio C.; and Jasinski, Stephen. Micro adjustable shoc ers' tripod. 3,703,046, 11-21-72, Cl. 42-94.000.
Barone Bruno: *See*—
Cro e, Louis J.; and Barone, Bruno, 3,678,105.
Barone, Bruno J., to Petro-Tex Chemical Corporation. Oxidation in the pr sence of saccharides. 3,649,682, 3-14-72, Cl. 260-524.
Barone, rank J.; and Tolliver, Donald L., to Motorola, Inc. Fabrication of a silicon-silicon dioxide interface of predetermined space charge polarity. 3,698,948, 10-17-72, Cl. 117-213.000.
Barone, Frank J.; and Tolliver, Donald L. Silicon-silicon dioxide interface of predetermined space charge polarity. 3,706,918, 12-19-72, Cl. 317-235.00r.
Barone, Frank, Jr.: *See*—
Barone, Michael; and Barone, Frank, Jr., 3,659,754.
Barone, Michael; and Barone, Frank, Jr. Pelletized animal feed dispenser. 3,659,754, 5-2-72, Cl. 222-368.
Baronnet, Pierre: *See*—
Schelle, Axel; and Baronnet, Pierre, 3,706,386.
Baronnet, Pierre; and Katzer, Ernst, to Knorr-Bremse KG. Line coupling connector for railway vehicles. 3,684,106, 8-15-72, Cl. 213-76.000.
Baronnet, Pierre; and Katzer, Ernst, to Knorr-Bremse KG. Line coupling connector for railway vehicles. 3,692,275, 9-19-72, Cl. 251-149.200.
Barosko, John M., to Tenneco Inc. Venting valve for hydraulic jack. 3,631,877, 1-4-72, Cl. 137-102.
Barough, Victor; Glenn, Robert; and Rose, Louis, said Rose assor. to Eaton Allen Corporation. Dual purpose hectographic master unit. 3,669,019, 6-13-72, Cl. 101-470.000.
Barouh, Victor; and Glenn, Robert. Correction material having visual aligning means. 3,704,150, 11-28-72, Cl. 117-2.0tc.
Barozier, Jean-Pierre; and Nicco, Adrien, to Ethylene-Plastique. Reaction of ethylene/maleic anhydride statistical copolymers with polyamines. 3,702,782, 11-14-72, Cl. 117-118.000.
Barozzi, Gian Piero; and Horeschi, Giancarlo, to Citizen Watch Co., Ltd. Setting carriage return mechanism. 3,703,986, 11-28-72, Cl. 235-60.00r.
Barr and Stroud, Limited: *See*—
Berry, Peter John, 3,698,790.
Ritchie, David S., 3,664,747.
Ritchie, David Scarth, 3,648,578.
Barr, Arthur C. Nursing unit with improved plastic liner. 3,645,414, 2-29-72, Cl. 215-11.
Barr, Charles R.; Williams, John; and Whitmore, Keith E., to Eastman Kodak Company. Certain mercaptan forming couplers. 3,701,783, 10-31-72, Cl. 260-308.00d.
Barr, David William: *See*—
Holyoake, Noel Victor; and Barr, David William, 3,677,047.
Barr, Dennis Arthur; and Rose, John Brewster, to Imperial Chemical Industries Limited. Aromatic polymers from dihalogenobenzenoid compounds and alkali metal hydroxide. 3,634,355, 1-11-72, Cl. 260-49.
Barr, Irwin R.: *See*—
Abbott, David D.; and Barr, Irwin R., 3,650,213.
Barr, Irwin R.; and Schnepfe, Robert W., to AAI Corporation. Directional dispensing grenade with externally open, integrally-formed and internally closed, propellant-charge well and internal frusto-conical material discharge guiding surface. 3,656,435, 4-1-72, Cl. 102-64.
Barr, Irwin R.; Hayman, Jack H., Jr.; and Wilkening, Harold A., to United States of America, Army, mesne. Inertia actuated cartridge retaining latches. 3,680,240, 8-1-72, Cl. 42-1.00q.
Barr, James: *See*—
Notley, John Michael; and Barr, James, 3,692,642.
Barr, John Denzil: *See*—
Plummer, Dexter Robert; and Barr, John Denzil, 3,634,008.
Barr, John E., to International Telephone and Telegraph Corporation. Connector clip removal tool. 3,672,024, 6-27-72, Cl. 29-203.00h.
Barr, Kenneth W.: *See*—
Gamache, Larry D.; Miller, Christopher F.; and Barr, Kenneth W., 3,638,189.
Barr, Paul N.; and Gambill, Charles C., to General Motors Corporation. Fuel supply system for an internal combustion engine providing voltage compensated cranking. 3,683,871, 8-15-72, Cl. 123-32.000.
Barr, Robert Alan, to Midland-Ross Corporation. Extruder, or extruder-like melting apparatus. 3,698,541, 10-17-72, Cl. 198-214.000.
Barr, Robert D. Carrying rack for motorcycle or similar vehicle. 3,675,833, 7-11-72, Cl. 224-29.00r.
Barr, Ruth L. Method of writing for communicating with the visually handicapped and paper therefor. 3,667,139, 6-6-72, Cl. 35-38.000.
Barr, Ruth L. Playing cards with conventional bas-relief indicia. 3,667,759, 6-6-72, Cl. 273-152.100.
Barr, William A., to Milwaukee Gear Company. Gear or rack construction. 3,636,791, 1-25-72, Cl. 74-422.
Barr-Stalfort Company; division of Pittway Corporation: *See*—
Cunningham, Ernest R., 3,642,037.
Barra, Donald P. Analog system of music notation. 3,698,277, 10-17-72, Cl. 84-483.000.
Barragan, Jacques, to Stokvis, R. S., & Fils. Lapping Machine. 3,668,813, 6-13-72, Cl. 51-128.000.
Barrager, Stephen M.; Bate, Geoffrey; and Smith, Sidney H., to International Business Machines Corporation. Method and apparatus for testing batch fabricated magnetic heads during manufacture utilizing magnetic fields generated by other magnetic heads. 3,76,926, 12-19-72, Cl. 324-34.00r.
Barrat, Bernard, to Productions Essemes S.A. Decreasing flexibility aperiodic resilient device for floors, partition walls and like building members. 3,703,793, 11-28-72, Cl. 52-403.000.
Barrault, Rene Louis; and Weber, Roland Edmond. Installation to produce rapidly a heated fluid. 3,651,790, 3-28-72, Cl. 122-338.
Barre, Jean-Gabriel; and Diez, Jean-Marie, to Centre Technique du Cuir. Method of manufacturing footwear. 3,663,679, 5-16-72, Cl. 264-244.
Barr'e, Lester J. Dual wheel adaptor system. 3,664,709, 5-23-72, Cl. 301-36.00r.
Barre, Marcel Jean Charles, to Societe Sucriere de l'Atlantique (Engineering). Apparatus for extracting soluble substances from plant or vegetable products. 3,632,445, 1-4-72, Cl. 127-3.
Barrekette, Euval S.; Baskin, Herbert B.; and Kazan, Benjamin, to International Business Machines Corporation. Multi-persistence display arrangement. 3,634,621, 1-11-72, Cl. 178-7.85.
Barrer, Richard M.; Cole, John F.; and Sticher, Hans, to Air Products and Chemicals, Inc. Crystalline zeolite and method of preparation. 3,663,164, 5-16-72, Cl. 23-112.
Barrer, Richard M.; and Cole, John F., to Air Products and Chemicals, Inc. Aluminosilicates containing soldalite and/or cancrinite cages encapsulating salts. 3,674,709, 7-4-72, Cl. 252-454.000.
Barrera, Carlos M.: *See*—
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Barrera, Joseph: *See*—
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Rubio, Manuel Jesus, 3,672,912.
Rubio, Manuel Jesus, 3,690,893.
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Barrere, Clem A., Jr.; and Caudle, Danny D., to Continental Oil Company. Gas treating process. 3,632,504, 1-4-72, Cl. 208-310.
Barrere, Clem A., Jr. Adsorption process for recovering desired components from a gas stream. 3,685,256, 8-22-72, Cl. 55-62.000.

Barrett, Arthur Lee. Direct contact food freezing. 3,701,263, 10-31-72, Cl. 62-63.000.

Barrett, Arthur M., Jr., to Barrett Electronics Corporation, mesne. Battery support arrangement. 3,704,761, 12-5-72, Cl. 180-68.500.

Barrett, Arthur Michael; Carter, John; Hull, Roy; Le Count, David James; and Squire, Christopher John, to Imperial Chemical Industries Limited. 1-Carbamoylalkylphenoxy-3-amino-2-propanols. 3,663,607, 5-16-72, Cl. 260-501.17.

Barrett, Charles E.; and Jacobson, David R., to Dresser Industries, Inc. Temperature sensing assembly. 3,681,990, 8-8-72, Cl. 73-343.00r.

Barrett, Charles W.: *See—*
Hamby, Clayton B.; Barrett, Charles W.; and Derfer, John M., 3,660,512.

Barrett, Donald H., to North American Rockwell Corporation. Solid propellant grain igniter. 3,667,396, 6-6-72, Cl. 102-101.000.

Barrett, Edgar Whitehouse, to Morse, Robert, Corporation, Limited. Drum device printer with type wheels driven by individually removeable motors. 3,683,801, 8-15-72, Cl. 101-99.000.

Barrett, Edmund, to Jenkintown Metal Products, Inc. Motor operated child's swing. 3,667,756, 6-6-72, Cl. 272-86.

Barrett, Edward George, to Smiths Industries Limited. Weighing apparatus. 3,661,221, 5-9-72, Cl. 177-137.

Barrett Electronics Corporation, mesne: *See—*
Barrett, Arthur M., Jr., 3,704,761.

Barrett, Ernest Charles Henry, to London & Scandinavian Metallurgical Co., Limited. Electro-deposition of nickel. 3,671,409, 6-20-72, Cl. 204-49.000.

Barrett, George M. Low pollution heat engine. 3,698,184, 10-17-72, Cl. 60-36.000.

Barrett Haentjens & Co.: *See—*
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Barrett, Jack E. J.: *See—*
Mereen, Donald E.; and Barrett, Jack E. J., 3,675,205.

Barrett, James H., Jr. Battery plate bridge support. 3,661,646, 5-9-72, Cl. 136-79.

Barrett, James R., to Fiberglass Structures. Tank venting system. 3,695,010, 10-3-72, Cl. 55-385.000.

Barrett, John C.; Borden, Howard C.; and Loebner, Egon E., to Hewlett-Packard Company. Hybrid integrated circuit module. 3,701,123, 10-24-72, Cl. 340-173.01s.

Barrett, John Eric: *See—*
Jackson, Brian; and Barrett, John Eric, 3,686,588.

Barrett, Lawrence G., to American Novawood Corporation, The. Apparatus for producing wood-plastic composites. 3,645,231, 2-29-72, Cl. 118-50.1.

Barrett, Lawrence G., to American Novawood Corporation, The. Knockdown warehouse pallet. 3,654,877, 4-11-72, Cl. 108-56.

Barrett, Maurice L., Jr. Meter proving system. 3,678,730, 7-25-72, Cl. 73-3.000.

Barrett, Orvis G. Method and apparatus for releasing game birds as targets. 3,685,491, 8-22-72, Cl. 119-15.600.

Barrett, Paul Anthony, to Burroughs Wellcome & Co. (U.S.A.) Inc. Method of treating or preventing coccidiosis. 3,674,873, 7-4-72, Cl. 424-250.000.

Barrett, Robert E.: *See—*
Meredith, Curtis L.; Barrett, Robert E.; and Bishop, William A., 3,683,050.

Barrett, Robert E., to Copolymer Rubber & Chemical Corporation. Oil and ozone resistant elastomer blends comprising EPDM rubber. 3,646,168, 2-29-72, Cl. 260-889.

Barrett, Robert G., to Cablecolor, Inc. Signal balance and control system. 3,688,027, 8-29-72, Cl. 178-6.800.

Barrett, Robert W.; and Preese, Pat S., to Current Industries, Incorporated. Intruder detector. 3,673,589, 6-27-72, Cl. 340-258.00d.

Barrevecchia, Domenick P. Collapsible portable utility tray stand. 3,703,872, 11-28-72, Cl. 108-111.000.

Barriball, Richard D.; Farris, William T.; Gross, George F.; and Walters, Charles W., to Larson Industries, Inc. Encapsulated plastic snow ski. 3,635,483, 1-18-72, Cl. 280-11.13.

Barrick, Billie L.: *See—*
Barrick, Thomas W., Sr.; and Barrick, Billie L., 3,692,327.

Barrick, Thomas W., Sr.; and Barrick, Billie L. Passenger embracing safety nets for use with automotive vehicles. 3,692,327, 9-19-72, Cl. 280-150.00b.

Barrier, Alvis L. Artificial plant holder. 3,682,347, 8-8-72, Cl. 220-160.000.

Barriere, Alain, to Automobiles Peugeot and Regie Nationale des Usines Renault. Support device for a seat, in particular for a vehicle. 3,680,821, 8-1-72, Cl. 248-371.000.

Barriere, Jacqueline, to Societe dite Courreges Parfums. Coated bottles. 3,663,259, 5-16-72, Cl. 117-37.00r.

Barriger, Forrest C. Corner mountable brackets. 3,692,265, 9-19-72, Cl. 248-222.000.

Barrilleaux, Robert G.: *See—*
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Barrineau, Wade H., to Southern Cross Industries, Inc. Merchandise support with hinged shelf. 3,677,203, 7-18-72, Cl. 108-111.000.

Barrineau, Wade H., III, to Southern Cross Industries, Inc. Adjustable shelves and support therefor. 3,705,654, 12-12-72, Cl. 211-176.000.

Barringer, Anthony Rene, to Barringer Research Limited. Automatic transform analyzer. 3,634,695, 1-11-72, Cl. 250-219.

Barringer, George L.: *See—*
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Barringer, William Charles: *See—*
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Barrington, Colin Arthur, to Lucas, Joseph, (Industries) Limited. Dicing semi-conductors. 3,632,462, 1-4-72, Cl. 156-345.

Barrington, Jonathan, to Insul-Fil Manufacturing Company. Water-repellant thermal insulating composition. 3,655,564, 4-11-72, Cl. 252-62.

Barrio, Alexander, Jr.: *See—*
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Barrios, Cyril A.: *See—*
Holleman, Robert A.; Huston, Robert F.; and Barrios, Cyril A., 3,660,059.

Barrios, David Joseph. Golf game with club stroker. 3,695,612, 10-3-72, Cl. 273-87.200.

Barron, Benjamin. High power audio amplifier system. 3,694,764, 9-26-72, Cl. 330-146.000.

Barron, Benny G., to North American Rockwell Corporation. Polymeric propellant and liner composition using a trimer acid. 3,649,389, 3-14-72, Cl. 149-19.

Barron, Benny G., to Dow Chemical Company, The. Process for making a cationic methacrylamide. 3,652,671, 3-28-72, Cl. 260-561.

Barron, Benny G., to Dow Chemical Company, The. Flocculant. 3,661,868, 5-9-72, Cl. 260-80.3.

Barron, Benny G., to Dow Chemical Company, The. Stabilized polymer in oil latexes and suspensions. 3,691,124, 9-12-72, Cl. 260-29.6wb.

Barron, Charles D., to Jackson, Byron, Inc. Liquid cooled clutch. 3,648,814, 3-14-72, Cl. 192-113.

Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., to Jackson, Byron, Inc. Stabilized load hoist apparatus. 3,648,858, 3-14-72, Cl. 214-14.

Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., to Jackson, Byron, Inc. Motion compensating hoist. 3,675,900, 7-11-72, Cl. 254-172.

Barron, Daniel. Sonar range prediction and tactical computer. 3,675,352, 7-11-72, Cl. 40-31.000.

Barron, Daniel. Variable depth sonar range production computer. 3,681,573, 8-1-72, Cl. 235-88.000.

Barron, Norman, 5% to Sellers, Wm. Douglas and Brace, George A.; d/b/a Sellers and Brace. Manually controlled automatic information display device. 3,696,395, 10-3-72, Cl. 340-325.000.

Barron, Richard H.: *See—*
Rowley, Kermit G.; and Barron, Richard H., 3,647,000.

Barron, Robert H. Apparatus for making shell molds. 3,664,407, 5-23-72, Cl. 164-165.

Barron, Roger L.; Kelleher, Kenneth S.; and Vieth, George C., Jr., to Adaptronics, Inc. Self-programming antenna tracking system. 3,680,126, 7-25-72, Cl. 343-117.00r.

Barron, Roger L., to Adaptronics, Inc. Self-organizing control. 3,697,957, 10-10-72, Cl. 340-172.500.

Barron, Roger L.; and Cleveland, Dixon, to Adaptronics, Inc. Variable-structure automatic control system. 3,701,889, 10-31-72, Cl. 235-150.100.

Barrow, Marvin A., 1/6% to Byerly, Benjamin F., 1/6% to Watkins, Jack C., 1/12% to Potts, Austin L. and 1/12% to Osburn, Lloyd. Motor vehicle lighting control and extinguishing system. 3,668,628, 6-6-72, Cl. 340-52.

Barrow, Ralph E.: *See—*
Roberts, James E.; Miller, Roy L.; Welch, Jay V.; and Barrow, Ralph E., 3,651,934.
Roberts, James E.; Barrow, Ralph E.; and Dickerson, Robert B., 3,653,496.

Barrow, Robert B.; and Terkelsen, Bruce E., to United Aircraft Corporation. Method of casting in investment molds having a radiation shield. 3,633,648, 1-11-72, Cl. 164-60.

Barrow, Robert B.; and Terkelsen, Bruce E., to United Aircraft Corporation. Radiation shield for investment molds. 3,706,338, 12-19-72, Cl. 164-357.000.

Barrows, Kenneth C., Jr., to Carrier Corporation. Cable tensioning structure for centrifugal compressor control. 3,645,144, 2-29-72, Cl. 74-89.2.

Barrows, Richard G.; and Ahillen, William G., to Motorola, Inc. Crystal band pass filter circuit. 3,633,134, 1-4-72, Cl. 333-72.

Barry, Daniel J.; and McNeill, James J. Container. 3,651,974, 3-28-72, Cl. 220-1.5.

Barry, George H., to United States of America, Navy, mesne. Direction finding antenna system. 3,704,463, 11-28-72, Cl. 343-100.00r.

Barry, Gerald J.: *See—*
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Barry, Henry F.; Hallada, Calvin J.; and Baker, Jerry D., to American Metal Climax, Inc. Molybdenum oxide refining process. 3,658,464, 4-25-72, Cl. 23-15.
Barry, James D.; and Boney, William E., III, to United States of America, Air Force. Carbon monoxide laser from helium-air-methane mixture. 3,704,428, 11-28-72, Cl. 331-94.500.
Barry, James L.; and Mitchell, Terrance R., to Barbers Hairstyling for Men, Inc. Trimming razor. 3,651,568, 3-28-72, Cl. 30-70.
Barry, John K., to Southco, Inc. Panel fastener with expandable sleeve. 3,673,913, 7-4-72, Cl. 85-70.000.
Barry, Jude W.: *See—*
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Barry, Richard F.: *See—*
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Barry, Thomas L., to Sylvania Electric Products, Inc. Divalent europium-activated barium-magnesium pyrosilicate. 3,651,363, 3-21-72, Cl. 313-109.
Barry, Vincent T., to Carrier Corporation. Control circuit for an air conditioning system. 3,695,054, 10-3-72, Cl. 62-115.000.
Barry, Walter D. Kite parachute unit with automatic ejector. 3,698,671, 10-17-72, Cl. 244-155.00r.
Barry, Wright, Corporation, mesne: *See—*
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Barsby, Charles B. Jet engines. 3,643,438, 2-22-72, Cl. 60-221.
Barsel, Norman. Stable aminochrome-like compounds resulting from mild oxidation of dopa and reaction with ketonic reagents. 3,660,573, 5-2-72, Cl. 424-232.
Barsh, Max K.; and Edwards, James N., to Aerojet-General Corporation. Vehicle alerting system. 3,673,560, 6-27-72, Cl. 340-33.
Barski, Jakier. Cone holder. 3,659,803, 5-2-72, Cl. 242-130.1.
Barski, Jakier. Pad for a cone. 3,661,343, 5-9-72, Cl. 242-141.000.
Barski, Jakier. Securement device. 3,686,613, 8-22-72, Cl. 339-21.00r.
Barson, Fred; and Lehman, Herbert S., to International Business Machines Corporation. Fabrication of semiconductor devices with cup-shaped regions. 3,667,115, 6-6-72, Cl. 29-571.
Barstad, Gotfred E. B., to Norwegian Defence Research Establishment. Aircraft landing guidance system using collimated fan shaped radiation beams. 3,665,198, 5-23-72, Cl. 250-106.
Barstow, Glidden J., to United States of America, Navy. Multi-channel frequency monitor. 3,667,051, 5-30-72, Cl. 325-363.000.
Barstow, Ormand E., to Dow Chemical Company, The. Valve assembly for injecting a liquid sample into an analyzing instrument. 3,664,194, 5-23-72, Cl. 73-422.
Bart, Hans U. Fuel pump. 3,680,980, 8-1-72, Cl. 417-253.000.
Bart Manufacturing Corporation: *See—*
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Bart, Ronald K.: *See—*
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Bart, Siegfried G., to Bart Manufacturing Corporation. Electroplating large cylindrical tanks. 3,649,477, 3-14-72, Cl. 204-26.
Barta, Cestmir, to Ceskoslovenska akademie ved. Method of preparing single crystals of mercurous chloride. 3,704,103, 11-28-72, Cl. 23-305.000.
Barta, Franz; and Grupp, Alfred F., to Mayercord Co., The. Web processing apparatus. 3,694,928, 10-3-72, Cl. 34-159.000.
Bartch, Donald W.: *See—*
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Barteleit, Ulrich; Regenscheit, Walter; Schroder, Helmut; and Wolf, Erich, to Werner & Pfleiderer. Distributor duct with flexible baffle plates. 3,643,585, 2-22-72, Cl. 98-121.
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Bartels, Harold, to Puritan-Bennett Corporation. Respiration system. 3,664,361, 5-23-72, Cl. 137-98.
Bartels, Herbert D.: *See—*
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Bartels, Herbert D., to Continental Can Company, Inc. Stress relieved container and method of making same. 3,670,921, 6-20-72, Cl. 220-75.000.
Bartels, Mathijs Willem: *See—*
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Bartels, Wilhelm: *See—*
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Barten, Antionius Martinus, to N.V. Machinefabrik L. Te Strake. Device for preparing a weft. 3,665,974, 5-30-72, Cl. 139-127.000.
Barten, Antonius Martinus: *See—*
Vermeulen, Geert Jan; and Barten, Antonius Martinus, 3,675,687.
Barten, Piet Gerard Joseph, to U.S. Philips Corporation. Color cathode ray tube with plural cathodes and three common grids each having same plurality of beam-defining apertures. 3,639,795, 2-1-72, Cl. 313-70.
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Barth, Hans-Dieter, to Chemiebau Dr. A. Zieren GmbH & Co. KG. Yields in the preparation of purified phthalic anhydride. 3,681,399, 8-1-72, Cl. 260-346.400.
Barth, Hubert; and Hauk, Klaus, to Deere & Company. Tractor front end weight assembly. 3,635,493, 1-18-72, Cl. 280-150.
Barth, Hubert; and Hauk, Klaus, to Deere & Company. Wheel weight assembly for a tractor. 3,644,002, 2-22-72, Cl. 301-41.
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Barth, Martin. Saucer with cup retaining recess. 3,632,015, 1-4-72, Cl. 220-69.
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Barth, Wayne E., to Pfizer, Inc. 2-Hydroxymethy1-3-hydroxy-6-(hydroxy-2-aminoethyl) pyridines. 3,700,681, 10-24-72, Cl. 260-296.0ae.
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Barthe, Henry P., to Schroeder Brothers Corporation. Single line return filter. 3,656,621, 4-18-72, Cl. 210-133.000.
Barthel, Alfred, to Union Carbide Corporation. Sphere-O-ring gas-tight seal assembly. 3,653,534, 4-4-72, Cl. 220-46.
Barthel, Karl, to Heidelberger Druckmaschinen Aktiengesellschaft. Gripper bridge for transfer cylinder in rotary printing press having a sheet registering correcting devices. 3,682,472, 8-8-72, Cl. 271-53.000.
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Bartholini, Giuseppe, to Hoffmann-La Roche Inc. Treatment of Parkinson's disease. 3,701,829, 10-31-72, Cl. 424-319.000.

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Vissers, Donald R.; Holmes, John T.; Nelson, Paul A.; and Bartholme, Louis G., 3,683,272.

Bartholomaus, Reiner; and Krohn, Holger, to Indramat-Gesellschaft fur Industrie-Rationalisierung und Automatisierung G.m.b.H. Control valve arrangement for a hydraulic apparatus. 3,665,807, 5-30-72, Cl. 91-35.000.

Bartholomew, George A. Method of adding oxygen containing metallic compounds to a molten metallurgical slag. 3,684,539, 8-15-72, Cl. 106-117.000.

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Erlandson, Paul M.; Aschberger, Anton A.; Roth, Donald J.; Cary, John T.; and Bartimes, George F., 3,652,818.

Bartky, Walter Scott: *See—*
Nothmann, Gerhard A.; Sippel, Charles P., Jr.; and Bartky, Walter Scott, 3,689,150.

Bartl, Herbert: *See—*
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Charters, Robert L.; Bartlemay, James M.; Folline, John M.; and Donich, Thomas G., 3,701,120.

Bartles, Edward C.; and Matthews, William R., to Eastman Kodak Company. Method of apparatus for removing tramp metal from polyethylene. 3,642,131, 2-15-72, Cl. 209-133.

Bartles, Edward C.; and Fraim, Raymond A., to Eastman Kodak Company. Control system. 3,706,339, 12-19-72, Cl. 161-12.000.

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Bartlett, Clarence; Bartlett, Laurence D.; and Bartlett, Dale. Rotating cylinder engine. 3,654,907, 4-11-72, Cl. 123-44.

Bartlett, Dale: *See—*
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Bartlett, Howard J., to Norton Company. Product for fabrication of dense ceramic armor plate and the like. 3,649,342, 3-14-72, Cl. 117-123.

Bartlett, John A.: *See—*
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Bartlett, Joseph E. Washer replacement assembly for faucet valves. 3,700,207, 10-24-72, Cl. 251-88.000.

Bartlett, Laurence D.: *See—*
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Bartlett, Lawrence C.: *See—*
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Bartlett, Lloyd: *See—*
Bartlett, Reginald C.; and Bartlett, Lloyd, 3,658,317.

Bartlett, Norman. Roundabout amusement ride with jump ramp. 3,666,264, 5-30-72, Cl. 272-29.000.

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Bartlett, Peter G.; and Henry, Donald E., to Struthers-Dunn, Inc. Process control system. 3,651,477, 3-21-72, Cl. 340-172.5.

Bartlett, Peter G.; Clark, Larry K.; and Hill, Frank W., to Gulf & Western Industries, Inc., mesne. Capacitor type timing circuit utilizing energized voltage comparator. 3,654,494, 4-4-72, Cl. 307-293.

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Bartlett, Reginald C.; and Bartlett, Lloyd. Examination table. 3,658,317, 4-25-72, Cl. 269-325.

Bartlett, Richard F., to Itek Corporation. Photographic photoconductor systems utilizing reversible redox materials to improve latent image life. 3,652,276, 3-28-72, Cl. 96-48.

Bartlett, Ronald Leonard: *See—*
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Bartlett, Ronald S., to PPG Industries, Inc. Synthesis of tetramethyl lead. 3,637,778, 1-25-72, Cl. 260-437.

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Bartlett, Wilford O.: *See—*
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Bartlett, William F.; and Oswald, William A., to Stromberg-Carlson Corporation. Time division multiplex data switch. 3,639,693, 2-1-72, Cl. 179-15.

Bartlett, William F.; Gifford, John C.; Lenk, Pedro A.; Oswald, William A.; Shaw, Frank Y.; Stuebe, Thomas D.; and Yost, Lloyd H., to Stromberg-Carlson Corporation. Stored program system. 3,662,349, 5-9-72, Cl. 340-172.5.

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Bartley, Burton H.: *See—*
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Bartley, Erle E.: *See—*
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Bartley, Erle E.; and Deyoe, Charles W., to Kansas State University Research Foundation. Feed product containing nonprotein nitrogen compounds and method for producing same. 3,642,489, 2-15-72, Cl. 99-2.

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Bartmann, Otto. Coupling for webs. 3,668,742, 6-13-72, Cl. 24-33.00c.

Bartmann, Wilhelm; Duwel, Dieter; Georgi, Volkmar; Wolf, Erhard; Beermann, Claus; and Landauer, Franz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Bisammonium compounds and process for preparing them. 3,661,966, 5-9-72, Cl. 26-482.

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Barton, David W.; and Muller, George H., to Ford Motor Company. Energy absorbing bumper. 3,638,985, 2-1-72, Cl. 293-71.
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Barton, Frederic D. Demonstrator system for vehicle cooling system. 3,694,934, 10-3-72, Cl. 35-13.000.
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Barton, Patrick William, to A.C.I. Operations Pty., Limited. Foamed ceramic material and method of making the same. 3,700,470, 10-24-72, Cl. 206-25.00.
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Bartos, Frank J.: *See—*
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Bartsch, Friedrich; and Blum, Heinrich, to Continental Gummi-Werke Aktiengesellschaft. Apparatus for driving anti-skid studs into the tread surface of tires. 3,643,315, 2-22-72, Cl. 29-211.
Bartsch, Raymond C.: *See—*
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Bartz, Richard O.: *See—*
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Baruch, John J. Liquid level indicator having an adjustable float. 3,673,587, 6-27-72, Cl. 340-244.00a.
Baruffa, Olindo; and Plomb, Francis, to Mefina S.A. Sewing machine. 3,683,833, 8-15-72, Cl. 112-258.000.
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Barwick, Frederick E., III: *See—*
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Basa, Napoleon A. Manually operated fluid pressure driven rotary drive. 3,706,202, 12-19-72, Cl. 60-54.50r.
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Basard, Robert; Stoll, Pierre E. C.; and Sedes, Pierre H., to International Standard Electric Corporation. Simulator for monopulse radar having coherent doppler features. 3,665,616, 5-30-72, Cl. 35-10.400.
Basart, Johan Charles Marie: *See—*
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Baschang, Gerhard; Morel, Charles J.; and Wacker, Oskar, to Geigy Chemical Corporation. Substituted 2-(flouren-2-yloxy)-acetic acids and lower alkyl esters thereof. 3,651,103, 3-21-72, Cl. 260-413.
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Bascomb, Hollis H.; and Greci, John J., to Orcon Corporation. Process for making non-woven fabrics. 3,669,790, 6-13-72, Cl. 156-162.000.
Basel, Donald R., to Westinghouse Electric Corporation. Non-clogging nozzle for rotating equipment, such as for cooling dynamo-electric machines. 3,659,125, 4-25-72, Cl. 310-54.
Baseler, Wolfgang. Resilient interconnection arrangement for rails to cross ties. 3,640,460, 2-8-72, Cl. 238-349.

Baseman, Maurice S. Fluorinated cyclohexylamine derivatives and compositions embodying the same. 3,663,618, 5-16-72, Cl. 260-563.00r.
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Battershell, Robert D., to Diamond Shamrock Corporation. Trimesonitriles. 3,637,796, 1-25-72, Cl. 260-465.
Battigalli, Giancarlo, to Mistrelettrica S.R.L. Device for removing shaved beard and cooling shaver. 3,634,935, 1-18-72, Cl. 30-41.5.
Battigalli, Giancarlo, to Mistrelettrica S.R.L. Shaving unit for electric shaver. 3,634,936, 1-18-72, Cl. 30-43.92.
Battigelli, Jean, to Compagnie de Saint-Gobain. Method and apparatus for production of fibers from thermoplastic materials, particularly glass fibers. 3,649,232, 3-14-72, Cl. 65-6.
Battigelli, Jean A., to Compagnie de Saint-Gobain. Method of and apparatus for the production of glass or other fibers from thermoplastic materials. 3,649,233, 3-14-72, Cl. 65-6.
Battista, Orlando A., to FMC Corporation. Food composition containing microcrystalline collagen. 3,632,350, 1-4-72, Cl. 99-1.
Battista, Orlando A., to FMC Corporation. Water-insoluble microcrystalline collagen absorbent mat. 3,632,361, 1-4-72, Cl. 106-122.
Battista, Orlando A., to FMC Corporation. Carbonization of cellulose crystallite aggregates. 3,639,266, 2-1-72, Cl. 252-421.
Battista, Orlando A., to FMC Corporation. Shaped structures having a self-adherent coating of a water-insoluble ionizable salt of a collagen. 3,649,347, 3-14-72, Cl. 117-144.
Battista, Orlando A., to FMC Corporation. Microcrystalline collagen, method of making same and foods, pharmaceuticals and cosmetics containing same. 3,691,281, 9-12-72, Cl. 424-195.000.
Battiston, Giancarlo: *See—*
Santangelo, Nicola; Battiston, Giancarlo; Pregaglia, Gianfranco; Cavaterra, Enrico; and Croci, Mauro, 3,702,868.
Battiston, Gianfranco: *See—*
Sarati, Luigi; and Battiston, Gianfranco, 3,657,470.
Battistone, Nicola: *See—*
Pushnig, Godfrey; and Battistone, Nicola, 3,650,342.
Battistoni, John J.; and Hibbard, William E., to Nevada Enzymes, Inc. Enzymatic composition. 3,635,797, 1-18-72, Cl. 195-56.
Battjes, Carl R., to Tektronix, Inc. Amplifier circuit. 3,633,120, 1-4-72, Cl. 330-30.
Battle Creek Packaging Machines, Inc.: *See—*
Holt, Ronald, 3,659,398.
Battle, James; and Phillips, Richard A., to Carborundum Company, The. Variable resistance resistor assembly. 3,691,503, 9-12-72, Cl. 338-95.000.
Battles, Dorothy Mott: *See—*

Mott, Carl W., 3,698,168.
Batts, John H., to Batts, John Thomas, Inc. Clamp. 3,665,563, 5-30-72, Cl. 24-258.000.
Batts, John H., to Batts, John Thomas, Inc. Molded garment clamp. 3,698,043, 10-17-72, Cl. 24-84.
Batts, John H., to Batts, John Thomas, Inc. Garment clamping hanger. 3,698,607, 10-17-72, Cl. 223-96.000.
Batts, John Thomas, Inc.: *See—*
Batts, John H., 3,665,563.
Batts, John H., 3,698,043.
Batts, John H., 3,698,607.
Batty, John Woolley; Chadwick, Eric Milton; and Crook, James William, to Imperial Chemical Industries Limited. Acetylenic ethers. 3,644,535, 2-22-72, Cl. 260-615.
Baturka, Walter, to Houdaille Industries, Inc. Collet chuck. 3,652,100, 3-28-72, Cl. 279-51.
Batz, James E., to Northern Illinois Gas Company. Remote meter reading system. 3,705,385, 12-5-72, Cl. 340-152.00r.
Batz, Simon, to Indiana University Foundation. Difluoroxalatostannate(II) complexes. 3,678,153, 7-18-72, Cl. 424-52.000.
Batzdorff, Alfred, to American Electronic Laboratories, Inc. Inspection recorder means. 3,633,211, 1-4-72, Cl. 346-14.
Batzer, Hans: *See—*
Habermeier, Juergen; Batzer, Hans; Porret, Daniel; and Kunz, Walter, 3,654,191.
Habermeier, Juergen; Batzer, Hans; and Porret, Daniel, 3,679,681.
Habermeier, Juergen; Batzer, Hans; and Porret, Daniel, 3,686,174.
Haug, Theobald; and Batzer, Hans, 3,676,455.
Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,655,817.
Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,674,746.
Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,678,009.
Porret, Daniel; Habermeier, Juergen; and Batzer, Hans, 3,640,910.
Reber, Willy Ernst; Nigst, Henry; Haas, Josef; Batzer, Hans; and Zuppinger, Paul, 3,669,708.
Schmid, Rolf; Bucher, Ingrid; Fisch, Willy; and Batzer, Hans, 3,641,194.
Schmid, Rolf; Lohse, Friedrich; Fisch, Willy; and Batzer, Hans, 3,642,674.
Schmid, Rolf; Lohse, Friedrich; Fisch, Willy; and Batzer, Hans, 3,642,938.
Schmid, Rolf; Lohse, Friedrich; and Batzer, Hans, 3,678,127.
Batzer, Hans; Nikles, Erwin; Ernst, Otto; and Porret, Daniel, to Ciba-Geigy AG. Epoxidized hydroaromatic acetals. 3,682,969, 8-8-72, Cl. 260-338.000.
Batzer, Othmer F., to International Minerals & Chemical Corporation. Virus insecticide. 3,639,578, 2-1-72, Cl. 424-93.
Batzill, Wolfgang: *See—*
Troeger, Gottfried; Mueller, Gerhart Hermann; Bachmann, Gerhard; Spoor, Herbert; and Batzill, Wolfgang, 3,697,461.
Batzold, John S., to Esso Research and Engineering Company. Fuel cell with anode containing a catalyst composition of iridium and ruthenium. 3,658,595, 4-25-72, Cl. 136-86.
Bauch, Ernst; and Eigenwald, Bruno, to Neumunstersche Maschinen- und Apparatebau Gesellschaft m.b.H. Hydraulic control apparatus. 3,651,642, 3-28-72, Cl. 60-51.
Bauchan, Michael L., to General Motors Corporation. Vehicle deceleration circuit. 3,702,459, 11-7-72, Cl. 340-62.000.
Baucke, Horst, to Jagenberg-Werke AG. Apparatus for braking and overlapping of sheets made of paper or the like to be deposited on a stack. 3,659,839, 5-2-72, Cl. 271-46.
Baucom, Keith K., to Baxter Laboratories, Inc. Recipient identification. 3,698,383, 10-17-72, Cl. 128-2.00g.
Baud, Roger C., to Finizen Lures, Inc. Fish plug lure. 3,665,634, 5-30-72, Cl. 43-35.000.
Baude, John, to Isotopes, Inc., mesne. Purge control for fuel cell. 3,697,325, 10-10-72, Cl. 136-86.00b.
Baudou, Antoine Joseph Georges. Mold for ski boots and the like. 3,684,417, 8-15-72, Cl. 425-119.000.
Baudras, Andre, to Societe Technique et Commercial d'Installations Industrielles "Luceat". Tank car loading unit. 3,705,610, 12-12-72, Cl. 141-387.000.
Baudry, Jean, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for reducing the emission of pollution responsible products by external carburation engines during the deceleration periods. 3,688,752, 9-5-72, Cl. 123-97.00b.
Bauer, Adolf: *See—*
Weber, Karl-Heinz; Bauer, Adolf; Merz, Herbert; and Minck, Klaus, 3,678,033.
Weber, Karl-Heinz; Bauer, Adolf; Danneberg, Peter; Minek, Klaus; and Pook, Karl-Heinz, 3,707,538.
Bauer, Alfons. Apparatus for indicating and recording the speed of motor vehicles and the distance travelled therewith. 3,706,097, 12-12-72, Cl. 346-18.000.
Bauer, Anton: *See—*
Wilson, Anton, 3,653,752.
Bauer, Anton, Inc.: *See—*
Bauer, George W., II, 3,692,394.
Bauer, Benjamin B.: *See—*
Allen, Richard G.; Bauer, Benjamin B.; and Torick, Emil L., 3,661,224.
Bauer, Benjamin B., to United States of America, Navy. Movable coil bi-gradient transducer. 3,665,381, 5-23-72, Cl. 340-8.
Bauer Bros, Co., The: *See—*
Horstman, Anton J., 3,685,747.
Leask, Raymond A., 3,661,328.
Bauer, Charles L.: *See—*
Allen, Joseph C.; and Bauer, Charles L., 3,638,727.
Bauer, Charles L., to Scovill Manufacturing Company. Kitchen mixer. 3,668,348, 6-6-72, Cl. 200-80.000.
Bauer, Clarence Gerald, to Western Dynamics, Inc., mesne. Economical, tough, debris-free shaped charge device and perforating gun assembly employing same. 3,650,212, 3-21-72, Cl. 102-20.
Bauer, David L.: *See—*
Surls, Joseph P.; Bauer, David L.; and West, Ben F., 3,703,357.
Bauer, Denis J., to Burroughs Wellcome & Co. (U.S.A.) Inc. Treatment of adenovirus infections. 3,636,226, 1-18-72, Cl. 424-274.
Bauer, Dietrich; and Fratzscher, Helmut, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for obtaining an asbestos-fiber material of a high degree of separation. 3,668,119, 6-6-72, Cl. 210-42.
Bauer, Donald J.: *See—*
Lindstrom, Roald E.; and Bauer, Donald J., 3,634,070.
Bauer, Douglas M., to General Electric Company. Analog digital converter. 3,678,500, 7-18-72, Cl. 340-347.0ad.
Bauer, Eddie, to B & B. Fishing lure or attractor. 3,673,727, 7-4-72, Cl. 43-42.510.
Bauer, Eddie, Inc., mesne: *See—*
McGuire, William L., 3,639,931.
Bauer, Erich; Reichard, Franz; and Schwarz, Ferdinand, to Osterreichische Mineralolverwaltung Aktiengesellschaft. Process for the utilization of the energy content of the flue gas accrued in catalytic cracking plants. 3,702,308, 11-7-72, Cl. 252-417.000.
Bauer, Everhard. Apparatus for charging trays having a surrounding flange with articles ordered in groups. 3,653,178, 4-4-72, Cl. 53-159.
Bauer, Franz; Besemer, Karl Friedrich; and Kinner, Gotthard, to Siemens Aktiengesellschaft. Testing probe construction. 3,676,776, 7-11-72, Cl. 324-72.500.
Bauer, Friedrich; and Kohler, Robert, to Hoerbiger Ventilwerke Aktiengesellschaft. Plate valve. 3,703,912, 11-28-72, Cl. 137-514.000.
Bauer, Fritz. Continuously adjustable lifting devices. 3,656,593, 4-18-72, Cl. 188-300.
Bauer, George J. Fisherman 's knot tying device. 3,700,272, 10-24-72, Cl. 289-17.000.
Bauer, George T., to Xerox Corporation. Illumination control system. 3,672,759, 6-27-72, Cl. 355-3.000.
Bauer, George W., II, to Bauer, Anton, Inc. Motion picture camera motor control. 3,692,394, 9-19-72, Cl. 352-176.000.
Bauer, Helmut, to Airco, Inc., mesne. High speed stop valve. 3,661,173, 5-9-72, Cl. 137-462.
Bauer, Helmuth. Frames lockable between stationary supports. 3,680,260, 8-1-72, Cl. 49-465.000.
Bauer, Ignaz; Riedle, Rudolf; and Nitzsche, Siegfried, to Wacker-Chemie G.m.b.H. Mold articles and coating based on organopolysiloxanes. 3,660,524, 5-2-72, Cl. 260-825.
Bauer, Jackson, to Collins & Aikman Corporation. Method of producing laminated textile fabrics with improved dimensional stability. 3,650,867, 3-21-72, Cl. 156-183.
Bauer, Jackson, to Collins & Aikman Corporation. Method for manufacture of compacted composite fabrics using thermoplastic adhesives. 3,666,595, 5-30-72, Cl. 156-324.000.
Bauer, James A., to Westinghouse Electric Corporation. Suspension spring. 3,648,999, 3-14-72, Cl. 267-160.
Bauer, James J., to Clark Equipment Company, mesne. Tractor vehicle with hydrostatic drive means. 3,635,365, 1-18-72, Cl. 214-778.
Bauer, James J., to Clark Equipment Company. Fluid system for a vehicle with fluid drive means. 3,646,596, 2-29-72, Cl. 60-52.
Bauer, James J.; Werner, James L.; and Erickson, Leland E. Quick attachment device. 3,672,521, 6-27-72, Cl. 214-145.000.
Bauer, James J., to Clark Equipment Company. Variable speed piston-swivel combination. 3,685,365, 8-22-72, Cl. 74-230.17f.
Bauer, Jean-Michel; and Brossard, Andre, to Societe Generale des Produits Refractaires. Refractory structure. 3,656,721, 4-18-72, Cl. 263-19.
Bauer, Johann: *See—*
Balwe, Thomas; Bauer, Johann; and Fendel, Kurt, 3,663,520.
Beier, Gerhard; Heckmaier, Joseph; and Bauer, Johann, 3,632,562.
Bauer, Johann; Hollenbach, Georg; Popp, Walter; and Sabel, Alex, to Wacker-Chemie G.m.b.H. High impact strength molding mixtures based on chlorinated polyvinylchloride. 3,642,948, 2-15-72, Cl. 260-876.
Bauer, Johann; and Sabel, Alex, to Wacker-Chemie GmbH. Process for the production of polymerizates of vinyl chloride. 3,682,874, 8-8-72, Cl. 260-87.50c.

Bauer, Johann; Fendel, Kurt; and Balwe, Thomas, to Wacker-Chemie G.m.b.H. Nitrites in vinyl chloride polymerization. 3,691,080, 9-12-72, Cl. 260-78.5cl.

Bauer, Johannes. Infinitely variable chain-engaged gearing. 3,688,595, 9-5-72, Cl. 74-230.170.

Bauer, John M.: *See—*
Strauss, Cyrus M.; and Bauer, John M., 3,650,960.

Bauer, Josef, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft Zweigniederlassung Nurnberg. Conveyor worm for conveying liquids and mud-like substances. 3,687,575, 8-29-72, Cl. 417-423.000.

Bauer, Karl: *See—*
Treptow, Heinz; and Bauer, Karl, 3,636,697.

Bauer, Karl; Martens, Gerhard; and Schiminski, Herbert, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Inductively heated godet. 3,701,873, 10-31-72, Cl. 219-10.610.

Bauer, Karl Gerhard: *See—*
Platz, Rolf; and Bauer, Karl Gerhard, 3,634,531.

Bauer, Karl-Heinz: *See—*
Labude, Wolfgang; and Bauer, Karl-Heinz, 3,689,724.

Bauer, Klaus: *See—*
Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,634,196.
Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfreid; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,650,902.

Bauer, Kurt: *See—*
Wittmann, Gunther; Bauer, Kurt; and Mussgay, Manfred, 3,632,741.

Bauer, Kurt; Wittmann, Gunther; and Mussgay, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Ethylethyleneimine as an inactivation agent. 3,636,196, 1-18-72, Cl. 424-89.

Bauer, Leo, to Sperry Rand Corporation. Power transmission. 3,696,836, 10-10-72, Cl. 137-625.250.

Bauer, Lieselotte: *See—*
Krueger, Friedrich; and Bauer, Lieselotte, 3,699,048.

Bauer, Paul R.: *See—*
Trbovich, Nicholas D.; Meyer, William H.; and Bauer, Paul R., 3,639,871.

Bauer, Peter, to Bowles Engineering Corporation. Fluidic counter. 3,645,442, 2-29-72, Cl. 235-201.

Bauer, Peter, to Bowles Fluidics Corporation. Bi-directional fluidic elements and circuits. 3,675,669, 7-11-72, Cl. 137-1.000.

Bauer, Ralf, to Veb Warnowwerft. Roll-back closure assembly for large openings, especially for hatch openings of ships. 3,698,346, 10-17-72, Cl. 114-201.000.

Bauer, Richard G.: *See—*
Patitsas, George P.; and Bauer, Richard G., 3,661,824.

Bauer, Richard G.; and Patitsas, George P., to Goodyear Tire & Rubber Company, The. Ethylhexyl acrylate-acrylonitrile-divinylbenzene terpolymers. 3,676,410, 7-11-72, Cl. 260-80.810.

Bauer, Robert: *See—*
Bloch, Rene; Bauer, Robert; and Phillips, Ben F., 3,635,679.

Bauer, Robert, to Miles Laboratories, Inc. Indicator for detecting hydrogen peroxide and peroxidative compounds containing Bindschedler's green. 3,654,179, 4-4-72, Cl. 252-408.

Bauer, Robert, to Miles Laboratories, Inc. Indicator for detecting hydrogen peroxide and peroxidative compounds containing alpha naphthoflavone. 3,654,180, 4-4-72, Cl. 252-408.

Bauer, Robert D. Drying of gases containing polymers and/or polymerizable constituents. 3,691,251, 9-12-72, Cl. 260-683.00r.

Bauer, Robert F.; McNeill, Robert C.; and Ledbetter, Jerry T., to Shell Oil Company. Underwater wells. 3,682,243, 8-8-72, Cl. 166-.600.

Bauer, Ronald; Chung, Harold; Cannell, Lawrence George; Keim, Wilhelm; and Van Zwet, Henry, to Shell Oil Company. Ethylene polymerization in the presence of complex nickel catalysts containing benzoic acid derivative ligands. 3,637,636, 1-25-72, Cl. 260-949.

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Bauer, Ronald; Chung, Harold; Barnett, Kenneth W.; Glockner, Peter W.; and Keim, Wilhelm, to Shell Oil Company. Ethylene polymerization. 3,686,159, 8-22-72, Cl. 260-94.90c.

Bauer, Ronald S.: *See—*
Van Zwet, Henry; Bauer, Ronald S.; and Keim, Wilhelm, 3,644,564.

Bauer, Ronald S.; Chung, Harold; Glockner, Peter W.; Keim, Wilhelm; and Van Zwet, Henry, to Shell Oil Company. Ethylene polymerization. 3,635,937, 1-18-72, Cl. 260-94.9.

Bauer, Ronald S.; Chung, Harold; Glockner, Peter W.; Keim, Wilhelm; and Van Zwet, Henry, to Shell Oil Company. Ethylene oligomerization. 3,644,563, 2-22-72, Cl. 260-683.15.

Bauer, Ronald S.; Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., to Shell Oil Company. Ethylene oligomerization. 3,647,915, 3-7-72, Cl. 260-683.15.

Bauer, Rudolf: *See—*
Walther, Gerhard; Bauer, Rudolf; Schulz, Werner; and Sirrenberg, Walther, 3,703,523.

Bauer, Rudolf; Jacob, Herbert; and Braun, Werner, to Wacker-Chemie G.m.b.H. Packaging epitaxially coated semiconductor disks. 3,672,495, 6-27-72, Cl. 206-65.00f.

Bauer, Russell E., to KDI-Bauer Corporation, mesne. Locking device. 3,646,645, 3-7-72, Cl. 24-241.

Bauer, Russell E., to KDI-Bauer Corporation. Marine sewage pump. 3,674,380, 7-4-72, Cl. 427-92.000.

Bauer, Simon H.: *See—*
Bar-Nun, Akiva; Bauer, Simon H.; and Sagan, Carl, 3,652,434.

Bauer, Stuart Michael: *See—*
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Bauer, Theodor: *See—*
Porsche, Ferdinand Alexander; and Bauer, Theodor, 3,635,487.
Porsche, Ferdinand Alexander; and Bauer, Theodor, 3,635,497.
Porsche, Ferdinand Alexander; and Bauer, Theodor, 3,658,357.

Bauer, Theodor, to Porsche, Dr.-Ing., H.c.F., K.G., Firma. One-track sliding vehicle. 3,635,488, 1-18-72, Cl. 280-16.

Bauer, Victor John: *See—*
Wiegand, Gretchen Ellen; Bauer, Victor John; and Safir, Sidney Robert, 3,705,157.

Bauer, Victor John; Fanshawe, William Joseph; and Wiegand, Gretchen Ellen, to American Cyanamid Company. Certain 4-[(indazol-3-yl)-pyridinium] compounds. 3,678,062, 7-18-72, Cl. 260-296.00r.

Bauer, Victor John; and Safir, Sidney Robert, to American Cyanamid Company. Hypoglycemic agents. 3,681,498, 8-1-72, Cl. 424-263.000.

Bauer, Victor John; Wiegand, Gretchen Ellen; and Safir, Sidney Robert, to American Cyanamid Company. 4-(Triazolyl) pyridinium salts and 4(oxazolyl) pyridinium salts for lowering blood glucose levels. 3,703,577, 11-21-72, Cl. 424-263.000.

Bauer, Walter C.: *See—*
Ewbank, Walter J.; Harden, Darrel G.; and Bauer, Walter C., 3,657,879.

Bauer, Werner: *See—*
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Bauer, William, Jr.: *See—*
Niederhauser, Warren Dexter; Belmares-Sarabia, Hector; and Bauer, William, Jr., 3,641,199.

Bauer, William V.: *See—*
Sze, Morgan C.; Bauer, William V.; Long, Raymond H.; Bloomer, Ward J.; and Whitehead, Richard T., 3,642,465.

Bauer, William W. Hand device for basketball players. 3,640,532, 2-8-72, Cl. 273-1.5.

Bauerle, Oskar; Kubel, Wilfried; Munster, Ernst; Schweikert, Karl; and Strobl, Georg. Commutator. 3,705,997, 12-12-72, Cl. 310-237.000.

Bauerlein, Rudolf; and Uhl, Dieter, to Siemens Aktiengesellschaft. Method of increasing the current amplification and the radiation resistance of silicon transistors with silicon oxide cover layer. 3,691,376, 9-12-72, Cl. 250-49.5te.

Bauerman, W. & Sohne GmbH: *See—*
Uthemann, Wolfgang; and Zimmermann, Richard (said Uthemann assor. to), 3,703,182.

Bauernfeind, Carl J.; and Zeman, Raymond F., to International Business Machines Corporation. Time interval measuring and accumulating device. 3,656,060, 4-11-72, Cl. 324-186.

Bauger, Louis Jules; and Lacroix, Armand Jean-Baptiste, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Burners for reheat combustion chambers. 3,633,361, 1-11-72, Cl. 60-39.71.

Bauger, Louis Jules; Beyler, Roland Robert Charles; Le Guen, Henri; Pidebois, Jacques Eloi; and Schenher, Michel Bernard, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Device for burning the unburnt residue in the exhaust gases of nternal combustion engines. 3,677,013, 7-18-72, Cl. 60-303.000.

Baugh, Benton F., to Vetco Offshore Industries, Inc. Orienting tubing hanger apparatus. 3,688,841, 9-5-72, Cl. 166-85.000.

Baugh, Benton F., to Vetco Offshore Industries, Inc. Tubing hanger orienting apparatus and pressure energized sealing device. 3,693,714, 9-26-72, Cl. 106-.600.

Baugh, Hollis A., to Brown Oil Tools, Inc. Well perforator with positioning tool. 3,656,562, 4-18-72, Cl. 175-4.51.

Baugh, John C.; Koenig, John E.; and Mc Cuskey, James R., to Van Dorn Company. Easy opening rectangular metal container. 3,682,350, 8-8-72, Cl. 220-54.000.

Baugh, William A., to Ethyl Development Corporation. Threaded container closure. 3,682,345, 8-8-72, Cl. 215-43.00r.

Baugh, William D.: *See—*
Horvitz, David; and Baugh, William D., 3,705,163.

Baugher, Dale Milton; and Hausman, Earl Thomas, to RCA Corporation. Multi-circuit hybrid module and method for making. 3,648,116, 3-7-72, Cl. 317-101.

Baughman, Davis L.; and Carpenter, James H., to Carborundum Company, The. Shot peening apparatus. 3,668,912, 6-13-72, Cl. 72-53.000.

Baughman, Davis L., to Carborundum Company, The. Shot peening method. 3,705,510, 12-12-72, Cl. 72-53.000.

Baughman, Gaylord G., to Cascade Corporation. Load-handling apparatus with reach mechanism. 3,675,803, 7-11-72, Cl. 214-730.000.

Baughman, James R.: *See—*
United States of America, National Aeronautics and Space Administration, 3,696,833.

Bauhus, Gunter; and Schmidtchen, Hans, to Gebr. Buhler Nachfolger GmbH. Driving assembly. 3,665,774, 5-30-72, Cl. 74-325.

Baukal, Albert Jozel: *See—*
Viktora, Josef Karel; and Baukal, Albert Jozel, 3,675,488.

Baukhage, Ernest Peter. Safety turntable for a ski binding. 3,672,695, 6-27-72, Cl. 280-11.35k.

Bauknight, Robert L. Clipboard illuminator. 3,694,644, 9-26-72, Cl. 240-6.40b.

Baulieu, William H.: *See—*
Conners, John A.; Liepelt, Donald W.; and Baulieu, William H., 3,692,276.

Baum, Charles S.: *See—*
Wendler, Charles F.; and Baum, Charles S., 3,684,497.

Baum, Elliot; and Loewengart, Harry R., to Quasar Microsystems, Inc. Data transmission system, utilizing A.C. line frequency as clock. 3,652,876, 3-28-72, Cl. 307-262.

Baum, George, to Corning Glass Works. Electrode sensitive to choline and its esters and methods using said electrode. 3,632,483, 1-4-72, Cl. 204-1.

Baum, George, to Corning Glass Works. Liquids thickened with submicroscopic beta-silicon carbide fiber sheathed with silica. 3,652,348, 3-28-72, Cl. 149-36.

Baum, Gilbert. Electrical display systems. 3,696,324, 10-3-72, Cl. 340-1.00r.

Baum, Hans Eduard, to Allplas A.G. Liquid storage system. 3,687,329, 8-29-72, Cl. 220-26.00r.

Baum, Harold M., to SCM Corporation. Animal litter and process. 3,636,927, 1-25-72, Cl. 119-1.

Baum, Heinz, to Jansen Th., G.m.b.H. Flap valve. 3,669,405, 6-13-72, Cl. 251-279.000.

Baum, Kurt, to United States of America, Navy, mesne. Certain difluoramino compounds. 3,637,848, 1-25-72, Cl. 260-563.

Baum, Martin D.; and Henry, Cyrus P., Jr., to Du Pont de Nemours, E. I., and Company. Hexaarylbiimidazole bis (p-dialkylaminophenyl-α,β-unsaturated) ketone compositions. 3,652,275, 3-28-72, Cl. 96-48.

Baum, Matthew C., to Farrand Optical Co., Inc. Dual raster television system. 3,654,386, 4-4-72, Cl. 178-96.

Baum, Melvin E., to Koppers Company, Inc. Unsaturated polyester resin molding powder. 3,632,667, 1-4-72, Cl. 260-861.

Baum, Melvin E.; and Hatton, John A., Jr., to Koppers Company, Inc. Chemically thickened polyester resin. 3,637,911, 1-25-72, Cl. 260-865.

Baum, Robert E., to Sencore, Inc. Automatic color CRT tracking testor and method of testing. 3,688,184, 8-29-72, Cl. 324-20.0cr.

Baum, Roger D.: *See—*
Anderson, Theodore C.; Baum, Roger D.; Favin, David L.; and Rugo, John J., 3,637,954.

Baum, Theodore, to Harris-Intertype Corporation. Box blank folder. 3,656,416, 4-18-72, Cl. 93-52.

Baum, Walter Karl-Theodor; and Breitenbach, Otto. Communications cables having reduced interference characteristics. 3,674,933, 7-4-72, Cl. 178-68.00b.

Baum, Werner, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Method of feeding liquid propellants to gas generators or rocket combustion chambers and feeding system for performing the method. 3,672,165, 6-27-72, Cl. 60-39.480.

Baum, Wilhelm, to Siemens Aktiengesellschaft. Sintered borosilicate glass. 3,647,491, 3-7-72, Cl. 106-54.

Baum, Wilhelm, to Siemens Aktiengesellschaft. Borosilicate glass for producing articles by centrifugal casting. 3,650,782, 3-21-72, Cl. 106-54.

Baum, Wilhelm; and Gierlichs, Michael, to Henkel & Cie G.m.b.H. Free flowing powder containing confectioners sugar. 3,698,917, 10-17-72, Cl. 99-141.000.

Bauman, Albert J., to California Institute of Technology. Method and apparatus for micro dry column chromatography. 3,692,669, 9-19-72, Cl. 210-31.000.

Bauman, Joseph F.; Kurtz, Edward, Jr.; Cini, Adrian V.; and Antrobus, Robert E., to Acme-Hamilton Manufacturing Corporation. Flexible corrugated tubing having improved performance characteristics. 3,640,312, 2-8-72, Cl. 138-121.

Bauman, Joseph F.; and Elson, Arthur M., to Acme-Hamilton Manufacturing Corporation. Method and apparatus for handling waste material, refuse and the like. 3,688,802, 9-5-72, Cl. 138-109.000.

Bauman, Ronald M. High isolation A.C. to D.C. converter. 3,699,426, 10-17-72, Cl. 321-27.00r.

Bauman, Weldon W.; and Collins, Edward, IV, to Itek Corporation. Digital PRF filter. 3,705,358, 12-5-72, Cl. 328-110.000.

Bauman, William C., to Dow Chemical Company, The. Bipropellant rocket process using nitridable fuel. 3,668,873, 6-13-72, Cl. 60-211.000.

Baumanis, Bruno, to Molex Products Company. Electrical connector. 3,634,813, 1-11-72, Cl. 339-156.

Baumanis, Bruno, to Molex Incorporated. Electrical connector. 3,701,082, 10-24-72, Cl. 339-61.00m.

Baumann AG: *See—*
Baumann, Manfred; and Stahli, Alois, 3,645,821.

Baumann, Bernard: *See—*
Cospen, Jean; and Baumann, Bernard, 3,682,349.

Baumann, Bernard, to L'Aluminium Francais. Process for the assembly of sheets and apparatus for same. 3,674,605, 7-4-72, Cl. 156-479.000.

Baumann, Dieter: *See—*
Niklaus, Ulrich; and Baumann, Dieter, 3,691,083.

Baumann, Dwight M. B. Automatic pattern recognition with weighted area scanning. 3,675,203, 7-4-72, Cl. 340-146.3aq.

Baumann, Erwin: *See—*
Petner, Eugene J.; Baumann, Erwin; and Cornell, John A., 3,632,677.

Baumann, Erwin H. Receptacle having a dividing wall. 3,684,136, 8-15-72, Cl. 222-386.000.

Baumann, Gunther, to Bosch, Robert, G.m.b.H. Method and arrangement for preventing the locking of wheels of a commercial vehicle. 3,652,135, 3-28-72, Cl. 303-21.

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Baumann, Gustav; and Hentschel, Gerhard, to Aktiengesellschaft Brown, Boveri & Cie. Method for separating liquid from solid substances and storing the solid substances. 3,658,179, 4-25-72, Cl. 210-66.

Baumann, Hans D., to Masoneilan International, Inc. Apparatus for reducing flowing fluid pressure with low noise generation. 3,665,965, 5-30-72, Cl. 138-42.000.

Baumann, Hans-Peter; and Keller, Robert-Christian, to Sandoz Ltd. Sulfodibenzofuran sulfones. 3,691,204, 9-12-72, Cl. 260-346.20m.

Baumann, Hans-Peter; and Keller, Robert Christian, to Sandoz Ltd. Process for the dyeing of textile material with dye carrier of predominantly higher boiling alkyl benzenes. 3,706,530, 12-19-72, Cl. 8-174.000.

Baumann, Heinrich: *See—*
Rossler, Heinrich Georgi F.; Baumann, Heinrich; and Zeidler, Falk, 3,638,701.

Baumann, Karl-Heinz, to Industrie-Werke Karlsruhe Augsburg Aktiengesellschaft. Roller drive. 3,662,966, 5-16-72, Cl. 242-47.010.

Baumann, Kurt, to Krups, Robert, Solingen-Wald, Firma. Dry shaving device. 3,685,149, 8-22-72, Cl. 30-43.920.

Baumann, Manfred; and Stahli, Alois, to Baumann AG. Method for connecting foamed materials to thermoplastic bodies. 3,645,821, 2-29-72, Cl. 156-196.

Baumann, Martin: *See—*
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Baumann, Martin E.: *See—*
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Baumann, Norman P.; and Ahlfeld, Charles E., to United States of America, Atomic Energy Commission. Oscillating monitor for fissile material. 3,699,338, 10-17-72, Cl. 250-83.100.

Baumann, Poul H., 1/2 to Hanscom, Genevieve; formerly Magnuson, Genevieve I., 1/2 to Hanscom, Genevieve I., Magnuson, Robert and Thomson, Louis J.; formerly Duggan, Louis J. Shuffle feed mechanism. 3,661,240, 5-9-72, Cl. 198-33.

Baumann, Richard F., to Dow Chemical Company, The. Vinylidene chloride polymers of broadened molecular weight distribution. 3,634,369, 1-11-72, Cl. 260-80.77.

Baumann, Ulrich: *See—*
Riemann, Karl Heinz; Kautter, Carl Theodor; and Baumann, Ulrich, 3,658,895.

Baumans, Hans W.: *See—*
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Baumer, Wilhelm: *See—*
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Baumers, Hans: *See—*
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Baumeyer, Martin; and Neben, Luebeck Wilhelm, to Schmalbach-Lubeca-Werke. Packaging containers made of sheet metal with tear-open device. 3,693,827, 9-26-72, Cl. 220-54.000.

Baumgart, Walter, to VEB Barkas-Werke, Ifa-Kombinat fur Kraftfahrzeugteile Renak-Werke. Fuel injection valve. 3,667,684, 6-6-72, Cl. 239-533.000.

Baumgarten, Fritz: *See—*
Charlap, E. Paul; Baumgarten, Fritz; and Fischer, Lothar, 3,639,051.

Baumgartner, Darrell E., to Owatonna Manufacturing Company, Inc. Speed and steering control for vehicles. 3,647,011, 3-7-72, Cl. 180-6.48.

Baumgartner, Emma F. Over arm carrying bag. 3,678,977, 7-25-72, Cl. 150-30.000.

Baumgartner, Heinrich, to Siemens Aktiengesellschaft. Visual indication device in which a part of the indicated data can be changed. 3,688,272, 8-29-72, Cl. 340-172.500.

Baumgartner, Helmut, to Volkswagenwerk Aktiengesellschaft. Heating arrangement for a vehicle. 3,707,263, 12-26-72, Cl. 237-12.30c.
Baumgartner, Max. Electromagnetic load compensated weighing apparatus including damping. 3,677,357, 7-18-72, Cl. 177-188.000.
Baumgartner, Richard J.; Lovgren, Jeffrey L.; and McCullough, John W., to International Business Machines Corporation. Video-derived segmentation-gating apparatus for optical character recognition. 3,662,341, 5-9-72, Cl. 340-146.3.
Baumgartner, Robert Garland; and Maclean, Kenneth Chambers, to Bell Telephone Laboratories, Incorporated. Telephone cable splice case. 3,636,241, 1-18-72, Cl. 174-92.
Baumgartner, Ronald R.: *See—*
Sanders, James F.; Baumgartner, Ronald R.; and Farago, Laszlo D., 3,669,706.
Baumgartner, Siegfried; Kindler, Hubert; Lidl, Rolf; and Boden, Henrich, 50% to Krauss-Maffei Aktiengesellschaft and 50% to Farbenfabriken Bayer Aktiengesellschaft. Scavenging system for injection-molding machine. 3,674,398, 7-4-72, Cl. 425-159.000.
Baumgartner, Siegfried; Fries, Bernd; Lidl, Rolf; and Zippe, Gunter, to Krauss-Maffei Aktiengesellschaft. Molding machine for foam-plastic articles. 3,674,408, 7-4-72, Cl. 425-406.000.
Baumgartner, Werner Richard; Walker, Erich; Kaufmann, Hans Peter; and Biene, Canton, to Bulova Watch Company, Inc. Miniaturized movement for an electronic timepiece. 3,683,613, 8-15-72, Cl. 58-238.00t.
Baumhaft, Irving, to Pennsylvania Sewing Research Corporation. Ruffling attachment for a stitching machine. 3,653,348, 4-4-72, Cl. 112-134.
Baumoel, Joseph, to Controlotron Corporation. Centrifugal switch. 3,632,922, 1-4-72, Cl. 200-80.
Baumoel, Joseph, to Controlotron Corporation. Golf computer. 3,665,494, 5-23-72, Cl. 235-156.
Baumstimler, August B. Combination well clean-out tool and jar. 3,651,867, 3-28-72, Cl. 166-99.
Baumueller, Adam, GmbH Fabrik fur Elektrotechnik: *See—*
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Baun Aktiengesellschaft: *See—*
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Baun, Theadore. Hose cutter. 3,636,629, 1-25-72, Cl. 30-94.
Baur Elektrouk GmbH, Firma: *See—*
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Baur, Hans: *See—*
Gerke, Peter; Baur, Hans; Rutkowski, Karl; Binder, Hans-Eugen; Palsa, Helmut; and Fabianke, Hartmut, 3,668,319.
Baur, Heinz, to Baur Elektrouk GmbH, Firma. Sparkplug cap. 3,683,232, 8-8-72, Cl. 315-58.000.
Baur, Kenneth R.; and Meihofer, Robert W., to Magnetic Recording Systems, Inc. and Infotec, Inc. Magnetic tape transport system. 3,637,161, 1-25-72, Cl. 242-186.
Baur, Reinhold: *See—*
Hartmann, Heinrich; Hartmann, Job-Werner; Wilhelm, Hans; Schnell, Georg; Wolfram, Kittler; Werst, Gerhard; and Baur, Reinhold, 3,690,946.
Baur, Robert, to Bunker-Ramo Corporation, The. Non-explosive electrically initiated heat-ignitable actuator. 3,695,116, 10-3-72, Cl. 74-2.000.
Bauren, Karl Lennart Emanuel: *See—*
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Baurle, Herbert F.: *See—*
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Baus, Heinz. Motor assembly. 3,666,219, 5-30-72, Cl. 248-15.000.
Bausch & Lomb Incorporated: *See—*
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Bausch & Lomb Incorporated, mesne: *See—*
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Bauser, Fritz, AG., Maschinenfabrik: *See—*
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Baustin, Michel M. Means for recording medicinal dosages. 3,675,620, 7-11-72, Cl. 116-121.000.
Bautista, Moises R.: *See—*
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Bautz, Josef, GmbH: *See—*
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Bavaro, Nicholas M.: *See—*
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Bawden, Orval C.; and Dimick, Frank A., to United States Steel Corporation. Hose coupling remover. 3,653,114, 4-4-72, Cl. 29-237.
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Bax, Johannes Cornelis, to U.S. Philips Corporation. Reciprocating rod and sleeve assembly with a liquid-supported rolling diaphragm seal and a pumping ring. 3,662,654, 5-16-72, Cl. 92-83.
Baxendale, Albert E., to Brico Engineering Limited. Fuel injection systems. 3,661,126, 5-9-72, Cl. 123-32.
Baxendale, Albert Edward; and Young, Edward John, to Brico Engineering Limited. Internal combustion engines. 3,702,603, 11-14-72, Cl. 123-97.00b.
Baxendale, John W., to Vendo Company, The. Sectional serpentine dispensing column having means preventing article jamming. 3,662,898, 5-16-72, Cl. 211-49.
Baxley, James R., to Peanut Research & Testing Laboratories, Inc. Method of making stabilized impregnated peanuts. 3,645,752, 2-29-72, Cl. 99-126.
Baxter, Calvin J.; and Thomas, McKinley B., to United States Steel Corporation. Pipe slitting machine. 3,700,222, 10-24-72, Cl. 266-23.00k.
Baxter, Carlton J.; and Volkers, S. William, to Xerox Corporation. Switching detector. 3,650,617, 3-21-72, Cl. 355-3.
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Baxter Corporation, The, mesne: *See—*
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Baxter, Frederick J.; and Benoit, Yvonne R., to Johnson & Johnson. Method of hemming and seaming fabrics. 3,690,277, 9-12-72, Cl. 112-267.000.
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Baxter James C.: *See—*
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Baxter, John C. Adjustable ratchet wrench. 3,662,630, 5-16-72, Cl. 81-97.
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Baxter, Larry K., to Shintron Company, Inc. Facsimile transmission system. 3,673,322, 6-27-72, Cl. 178-6.000.

Baxter, Leonard N., to Stanadyne, Inc. Fuel pump. 3,704,963, 12-5-72, Cl. 417-274.000.

Baxter, Michael D.: *See—*
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Baxter, Michael David, to Hobourn-Eaton Manufacturing Company Limited. Attachment for cutting rock gear teeth of variable pitch. 3,687,006, 8-29-72, Cl. 90-7.000.

Baxter, Michael David, to Hobourn-Eaton Manufacturing Company Limited. Fluid motors. 3,691,905, 9-19-72, Cl. 91-216.00a.

Baxter, Robert O.; Hollis, Clint R.; and Evans, Carlton F., to International Paper Company. Apparatus for making multi-ply paper bags. 3,664,238, 5-23-72, Cl. 93-8.

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Bayard, Bo Sven, to Bergman, Gustav Albert. Arrangement in impact piston machines for drilling and like operations, driven by a two-stroke internal combustion engine. 3,642,077, 2-15-72, Cl. 173-116.

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Baybarz, Russell D.; and Peterson, Joseph R., to United States of America, Atomic Energy Commission. Californium-252 neutron source and method of making same. 3,640,888, 2-8-72, Cl. 252-301.1.

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Baycura, Orestes M. Magnetic control device. 3,643,104, 2-15-72, Cl. 307-88.

Baycura, Orestes M. Variable position multi-element capacitor voltage transformer device. 3,644,822, 2-22-72, Cl. 323-93.

Baycura, Orestes M. Magnetic square wave voltage generator. 3,673,491, 6-27-72, Cl. 323-48.000.

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Bayer, Eduard; and Vogelbruch, Willi. Device for uniting the edges of a double or multiple glass pane. 3,653,867, 4-4-72, Cl. 65-156.

Bayer, Edward C.: *See—*
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Bayer, Erich, to Bosch, Robert, G.m.b.H. Carbon brush for use in electric motors. 3,681,635, 8-1-72, Cl. 310-248.000.

Bayer, Friedrich, to Friedrich Grohe Armaturenfabrik. Water regulating valve. 3,633,870, 1-11-72, Cl. 251-270.

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Bayer, Horst O.; Cook, Richard S.; and von Meyer, William C., to Rohm & Haas Company. 1,2,4-Triazole metal salt complexes. 3,647,810, 3-7-72, Cl. 260-299.

Bayer, Horst O., to Rohm & Haas Company. Ethylenic sulfilimine compositions for controlling fungi, bacteria and algae. 3,653,873, 4-4-72, Cl. 71-67.

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Bayer, Oldrich; Snasel, Josef; Premyslovsky, Jiri; and Smalcl, Frantisek, to Svit, narodni podnik. Apparatus for forming boxes. 3,704,654, 12-5-72, Cl. 93-51.00r.

Bayer, Otto, to Heraeus-Schott Quarzschmelze GmbH. Method of producing transparent or opaque fused silica or glass with a high silicon content. 3,666,414, 5-30-72, Cl. 106-52.

Bayerische Berg-Hutton-und Salzwerke AG: *See—*
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Bayerlein, Friedrich: *See—*
Kolbeck, Winfried; and Bayerlein, Friedrich, 3,646,056.

Bayerlein, Friedrich J.: *See—*
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Bayew, Dimiter: *See—*
Kaufman, Otto; Daeuble, Manfred; Witsch, Heinz-Guenter; Luebcke, Enno; and Bayew, Dimiter, 3,671,176.

Bayew, Dimiter; Daeuble, Manfred; Kaufmann, Otto; Ludsteck, Dieter; Pfitzner, Helmut; and Witsch, Heinz-Guenter. Production of highly concentrated, stable stock solutions containing 1:2 metal complex dyes in a single step reaction. 3,704,086, 11-28-72, Cl.8-42.000.

Bayha, Jack E.; and Dixon, John W. Credit card validator with transducer-readout. 3,637,990, 1-25-72, Cl. 235-61.7.

Bayha, Jack E. Method and apparatus for document validation. 3,652,862, 3-28-72, Cl. 250-219.

Bayha, Jack E., to ARDAC/USA Incorporated. Stacker for paper currency. 3,655,186, 4-11-72, Cl. 271-88.

Bayle, Guy P.; and Johnson, Douglas A., to North American Aviation, Inc. Terrain-warning radar system. 3,680,094, 7-25-72, Cl. 343-7.0ta.

Bayle, Guy P.; Smyth, Richard K.; and Gustafson, Robert D., to North American Aviation, Inc. Vehicle controller employing passive horizon sensor. 3,706,988, 12-19-72, Cl. 343-6.00r.

Bayles, Fred R., to LTV Electrosystems, Inc. Hydraulic control means. 3,683,749, 8-15-72, Cl. 91-438.

Bayless, Jack H.: *See—*
Penberthy, Walter L.; Bayless, Jack H.; and Ayers, Robert C., Jr., 3,664,425.
Penberthy, Walter L., Jr.; Bayless, Jack H.; and West, Robert C., 3,664,424.

Bayless, Robert G.; Shank, Charles P.; Botham Ruth A.; and Werkmeister, Dennis W., to National Cash Register Company, The.

Process of forming minute capsules and three-phase capsule-forming system useful in said process. 3,674,704, 7-4-72, Cl. 252-316.000.

Bayne, Dennis R.: *See—*
Vahlstrom, Richard E.; Nutten, Donald C.; and Bayne, Dennis R., 3,675,047.

Bayne, Jimmy O. Clothes hanger storing and display device. 3,692,188, 9-19-72, Cl. 211-49.00d.

Bayne, John; King, Ian Robert; and Morey, John Richard, to Laporte Industries Limited. Vapour phase oxidation of benzene to maleic anhydride using an aluminum phosphate supported catalyst. 3,697,550, 10-10-72, Cl. 260-346.800.

Bayne, Peter D.: *See—*
Krause, Ronald O.; and Bayne, Peter D., 3,705,597.

Baynes, William R.; La Branche, Harvey W.; and Soulakis, George, to Mattel, Inc. Curve track system for toy vehicles. 3,695,513, 10-3-72, Cl. 238-10.00e.

Bayon, Patrice Marie. Safety belts incorporated in a vehicle's seat. 3,637,258, 1-25-72, Cl. 297-389.

Bayre, Willard W., to General Motors Corporation. Ultrasonic testing apparatus. 3,699,805, 10-24-72, Cl. 73-67.600.

Bays, David Edmund; and Foster, Roy Vivian, to Allen & Hanburys Limited. Novel aroyl phenethyl alcohols. 3,647,881, 3-7-72, Cl. 260-591.

Bays, David Edmund, to Allen & Hanburys Limited. Xanthone derivatives. 3,706,768, 12-19-72, Cl. 260-335.000.

Bays, Marvin G., to Delta Exploration Company, Inc. Underwater seismic acoustic energy signal source. 3,676,840, 7-11-72, Cl. 340-12.000.

Bays, Robert D. Car theft prevention device. 3,695,067, 10-3-72, Cl. 70-63.000.

Bayshore Concrete Products Corporation: *See—*
Van Buren, Myers, 3,652,756.

Bayssat, Michel; Fontaine, Louis; and Grand, Marcel, to Lipha Lyonnaise Industrielle Pharmaceutique. Substituted cinnamamides in myorelaxent compositions. 3,659,014, 4-25-72, Cl. 424-324.

Baytron Co., Inc.: *See—*
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Bayze, Thomas F. Air pollution circulation device. 3,678,658, 7-25-72, Cl. 55-230.000.

Bazant, Vladimir: *See—*
Rod, Vladimir; Bazant, Vladimir; and Sir, Zdenek, 3,694,497.

Bazell, Seymour: *See—*
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Bazin, Lucas John: *See—*
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Bazinet, Wilfred P., Jr.; and Salce, John E., to Noma-World Wide, Inc. High temperature termination for fiber optic bundle. 3,681,164, 8-1-72, Cl. 156-294.

Bazouin Andre: *See—*
Bakassian, Georges; and Bazouin Andre, 3,646,088.
Bakassian, Georges; and Bazouin, Andre, 3,652,625.
Bakassian, Georges; and Bazouin, Andre, 3,652,626.

Bazouin, Andre; and Lefort, Marcel, to Rhone-Poulenc S.A. Process for the production of arylpheny!methylchlorosilanes. 3,637,780, 1-25-72, Cl. 260-448.2.

Bazouin, Andre; and Lefort, Marcel, to Rhone-Poulenc S.A. Process for the purification of mixtures of organochlorosilanes. 3,637,781, 1-25-72, Cl. 260-448.2.

Bazouin, Andre; and Lefort, Marcel, to Rhone-Poulenc S.A. Process for the preparation of aryldimethylchlorosilanes. 3,655,710, 4-11-72, Cl. 260-448.2.

Bazouin, Andre; and Lefort, Marcel, to Rhone-Poulenc S.A. Preparation of organosilicon compounds with silylphenyl groups. 3,686,252, 8-22-72, Cl. 260-448.20p.

B.C.T.I. Bureau de Coordination de Travaux Industrialises, S.a.r.L.: *See—*
Trezzini, Henri Louis; and Czaryski, Norbert, 3,693,308.

B.D.H. Chemicals Limited: *See—*
Hayman, David Frank; and Wild, Anthony Musgrave, 3,641,123.

BDH Pharmaceuticals Limited: *See—*
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Bysouth, Peter Thomas; and Wild, Anthony Musgrave, 3,700,738.
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Beach, Allan David, to National Research Development Corporation. Pivoted mirror for elbow joint in light tube. 3,642,352, 2-15-72, Cl. 350-288.

Beach, David E., to Eastman Kodak Company. Mechanism for sensing the condition of a percussive flash device and for effecting synchronous percussive flash exposures. 3,661,063, 5-9-72, Cl. 95-11.5.

Beach, David E., to Eastman Kodak Company. Mechanism for operating a camera shutter and a mechanically operable flash device in synchronism. 3,687,033, 8-29-72, Cl. 95-11.50r.

Beach, David E., to Eastman Kodak Company. Electric generator drive mechanism. 3,703,132, 11-21-72, Cl. 95-11.500.

Beach, Horace J.; En Dean, Howard J.; Frawley, Frank E.; and Yates, Dick, to Gulf Research & Development Company. Cement composition for lining pipe. 3,669,700, 6-13-72, Cl. 106-98.000.

Beach, John R., to Signode Corporation. Toothed seal. 3,636,592, 1-25-72, Cl. 24-23.

Beach, Kenneth M., Jr.: *See—*
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Beach, Mary B.: *See—*
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Grote, George A., 3,681,899.

Beach, Sidney C., to Chemetron Corporation. Coumarin-carrier addition agent for nickel baths. 3,669,853, 6-13-72, Cl. 204-49.000.

Beach, Sidney C.; and Martin, Bernard P., to Inorganic & Metal Treating Chemicals Division. Bright nickel plating bath and process. 3,699,016, 10-17-72, Cl. 204-49.000.

Beach, Willard C.: *See—*
Grote, George A., 3,681,899.

Beach, William R.: *See—*
Cunningham, Cecil R.; Beach, William R.; and Brinkley, Ray D., 3,693,338.

Beach, Williard C.: *See—*
Grote, George A., 3,678,662.

Beach, Willis J., to Sugar Beet Products Company. Skin cleaner. 3,645,904, 2-29-72, Cl. 252-89.

Beach, Winfield G. Thermal radiation system for soil stabilizer. 3,656,547, 4-18-72, Cl. 165-106.

Beacham, Harry H.: *See—*
Wright, Carl L.; and Beacham, Harry H., 3,637,578.
Wright, Carl L.; and Beacham, Harry H., 3,684,616.

Beachley, Robert W. Lighting standard or pole with doubly hinged base. 3,671,738, 6-20-72, Cl. 240-84.000.

Beachley, Robert W. Protective automatically disconnectable grouping means for an ungrounded A. C. electrical distribution system. 3,678,338, 7-18-72, Cl. 317-18.00r.

Beachner, George J., Jr.; Beachner, Howard A.; and Panzarella, Santo C., to S. H. & G. Company. Refuse container. 3,680,478, 8-1-72, Cl. 100-229.00a.

Beachner, Howard A.: *See—*
Beachner, George J., Jr.; Beachner, Howard A.; and Panzarella, Santo C., 3,680,478.

Beachner, Robert W., to Burroughs Corporation. Controlled pressure platen. 3,693,473, 9-26-72, Cl. 74-520.000.

Beachy, Dale K.: *See—*
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Beacon Manufacturing Company: *See—*
Hughes, George H., 3,635,785.
Hughes, George H., 3,635,786.
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Hughes, George H., 3,649,428.
Hughes, George H., 3,649,429.

Beacon, Robert G., to Ellcon-National, Inc. Braking mechanism. 3,704,046, 11-28-72, Cl. 303-22.

Beadle, Arthur G.: *See—*
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Beadle, Clarence C., Jr., 1/3 to Beadle, Raymond R., Sr. and 1/3 to Beadle, Arthur G. Football dryer. 3,686,774, 8-29-72, Cl. 34-227.000.

Beadle, Raymond R., Sr.: *See—*
Beadle, Clarence C., Jr., 3,686,774.

Beadle, William E.; Benson, Kenneth E.; Mathews, James R.; and Von Ohlsen, Louis H., Jr., to Bell Telephone Laboratories, Incorporated. Fabrication process for light sensitive silicon diode array target. 3,669,768, 6-13-72, Cl. 148-187.000.

Beagan, Michael A., Jr. Adjustable mounting for rock drills. 3,664,436, 5-23-72, Cl. 173-43.

Beak-O-Vac, Inc.: *See—*
Reynolds, Lamar W., 3,661,259.

Beakbane, Henry (Fortox) Limited: *See—*
Horrobin, Gerald V.; Hutton, John F.; and Knowles, Peter M., 3,642,309.
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Beakes, Benjamin L., to General Motors Corporation. Tilt steering wheel mechanism. 3,691,866, 9-19-72, Cl. 74-493.000.

Beal, Charles B. Carrier system for delivery of an end of an elongated member to the upper gastrointestinal tract. 3,683,890, 8-15-72, Cl. 128-2.00w.

Beal, Edward W.: *See—*
Lambert, Robert E.; Beal, Edward W.; and Bacewicz, Anthony J., 3,701,969.

Beal, Edward W., to Connecticut International Corporation. Optical system for aircraft guidance light. 3,678,260, 7-18-72, Cl. 240-1.200.

Beal, John O.: *See—*

Gray, Robert P.; and Beal, John O., 3,646,807.
Beal, Lawrence E.: *See—*
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Beal, Lawrence E.; Miller, Earl D.; and Craig, William R., to Eagle-Picher Industries, Inc. Microswitch operator structure including adjustable cam follower. 3,646,287, 2-29-72, Cl. 200-18.
Beal, Philip F., III: *See—*
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Beal, Robert E.; and Eisenhauer, Roger A., to United States of America, Agriculture. Method for removing metals from vegetable oils. 3,634,475, 1-11-72, Cl. 260-428.
Beale, John H.; and Smith, William Mayo, Jr., to Air Products and Chemicals, Inc. Readily extruded chlorinated copolymers and process of preparing same. 3,700,632, 10-24-72, Cl. 260-87.50c.
Beale, Julian Robert Anthony: *See—*
Robinson, David Phythian; Beale, Julian Robert Anthony; Shannon, John Martin; Kerr, John Anthony; and Das, Mukunda Behari, 3,653,978.
Beale, Julian Robert Anthony, to U.S. Philips Corporation. Methods of manufacturing a semiconductor device. 3,704,177, 11-28-72, Cl. 148-1.500.
Beale, William T., to Research Corporation. Stirling cycle type thermal device servo pump. 3,645,649, 2-29-72, Cl. 417-379.
Beall, George H.; and Martin, Francis W., to Corning Glass Works. Low expansion zinc petalite-beta quartz glass-ceramic articles. 3,681,097, 8-1-72, Cl. 106-39.0dy.
Beall, George H., to Corning Glass Works. Transparent glass-ceramic articles comprising zinc spinel. 3,681,102, 8-1-72, Cl. 106-39.0dv.
Beall, George H., to Corning Glass Works. Mica glass-ceramics. 3,689,293, 9-5-72, Cl. 106-39.0dv.
Beall, Glenn L.: *See—*
Beich, Frank R.; and Beall, Glenn L., 3,661,152.
Beall, Glenn L., to Respiratory Care, Inc. Nebulizer. 3,652,015, 3-28-72, Cl. 239-338.
Beall, Richard W., Jr. Hand held spray gun and air valve. 3,658,255, 4-25-72, Cl. 239-415.
Beals, Robert N. Pressure responsive actuator having application to a valve spool or like device. 3,674,041, 7-4-72, Cl. 137-1.000.
Beam, Benjamin H.; and Russell, Larry D., to United States of America, National Aeronautics and Space Administration. Thermodielectric radiometer utilizing polymer film. 3,657,644, 4-18-72, Cl. 324-61.
Beam, Danny J. Block assembly game. 3,649,018, 3-14-72, Cl. 273-95.
Beam, Harry J., Jr. Hair drying apparatus for dogs and the like. 3,683,512, 8-15-72, Cl. 34-243.000.
Beam, Norman: *See—*
Beasley, Silas V.; and Beam, Norman, 3,696,734.
Beam, Norman A.: *See—*
Murphy, Willard; and Beam, Norman A., 3,672,080.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, to Hoffman-La Roche Inc. 2-Nitroimidazole derivatives substituted in the 1-position with a 2-oxo-propyl or semicarbazone group. 3,641,047, 2-8-72, Cl. 260-309.
Beaman, Alden Gamaliel; and Tautz, William Paul, to Hoffmann-La Roche Inc. 2-Nitroimidazoles. 3,646,057, 2-29-72, Cl. 260-309.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, to Hoffmann-La Roche Inc. 2-Nitroimidazoles. 3,679,698, 7-25-72, Cl. 260-309.000.
Beaman, Alden Gamaliel; and Miller, O. Neal, to Hoffmann-La Roche Inc. 2-Chloro-6-hydroxynicotinic acid. 3,682,932, 8-8-72, Cl. 260-295.50r.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, to Hoffmann-La Roche Inc. 1,2-Epoxy-3-(3-iodo-2-propynyloxy)-propane. 3,700,698, 10-24-72, Cl. 260-348.00r.
Beaman, Clayton E. Custom wheel adapter for tire changing machine. 3,648,746, 3-14-72, Cl. 157-1.24.
Beamon, Howard L.: *See—*
King, James Frank; Beamon, Howard L.; Lathery, Willie M.; and Newlen, Kenneth W., 3,690,276.
Bean, Arthur R., Jr.; Papavasiliou, Mary J.; and Snyder, John L., to Shell Oil Company. Diene polymerization process. 3,651,025, 3-21-72, Cl. 260-78.4.
Bean, Claude T., Jr.: *See—*
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Bean, Donald E.; Engh, James T.; Hammer, James R.; Schettl, Myron D.; Tashjian, Harry J.; Ullmer, Richard J.; and Kerr, John W., to International Business Machines Corporation. Data recorder and verifier. 3,642,197, 2-15-72, Cl. 234-35.
Bean, Dorothy Aday: *See—*
Bean, Frank R.; and Bean, Dorothy Aday, 3,655,195.
Bean, Douglas Colin, to Bean, Douglas, Proprietary Limited. Forceps. 3,648,702, 3-14-72, Cl. 128-321.
Bean, Douglas, Proprietary Limited: *See—*
Bean, Douglas Colin, 3,648,702.
Bean, Frank R.; and Bean, Dorothy Aday. Word forming game apparatus. 3,655,195, 4-11-72, Cl. 273-135.
Bean, Roger M., to Sun Oil Company. Oxydehydrogenation process. 3,636,123, 1-18-72, Cl. 260-680.
Bean, Roger M., to Sun Oil Company. Oxidative dehydrogenation of 1-butenes. 3,663,630, 5-16-72, Cl. 260-680.
Bean, Stephen, to Autech Corporation. Digital ADF tuning indicator. 3,681,707, 8-1-72, Cl. 331-64.000.
Beane, David J.; and Gastler, John H., to United Aircraft Corporation. Afterburner combustion apparatus. 3,698,186, 10-17-72, Cl. 60-39.72r.
Beaney, Peter Austin, to Foseco International Limited. Process for bonding particulate materials. 3,642,503, 2-15-72, Cl. 106-38.35.
Beans, Allen F.: *See—*
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Beanston, Robert A.: *See—*
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Bear, David L.: *See—*
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Bear, Harold F. Tandem wagon axle assembly. 3,632,129, 1-4-72, Cl. 280-109.
Beard, Albert L.; and Hunter, John C., to Honeywell Information Systems Inc., mesne. Data processing system with program interrupt priority apparatus utilizing working store for multiplexing interrupt requests. 3,665,415, 5-23-72, Cl. 340-172.500.
Beard, Garry E., to Ford Motor Company. Variable advance engine ignition timing control. 3,638,627, 2-1-72, Cl. 123-117.1.
Beard, Garry E., to Ford Motor Company. Multi-diaphragm vacuum servo. 3,659,501, 5-2-72, Cl. 92-49.
Beard, Hoyt S., to Reynolds, R. J., Tobacco Company. Cigarette filter. 3,631,864, 1-4-72, Cl. 131-10.5.
Beard, Hoyt S., to Reynolds, R. J., Tobacco Company. Smoke filter. 3,631,867, 1-4-72, Cl. 131-261.
Beard, Hoyt S., to Reynolds, R. J., Tobacco Company. Smoke filter. 3,651,819, 3-28-72, Cl. 131-261.
Beard Industries, Inc.: *See—*
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Beard, Jack H., to General Motors Corporation. System for calibrated high level current measurement using a magnetic field responsive transistor. 3,693,085, 9-19-72, Cl. 324-117.00h.
Beard, James D.: *See—*
Stephens, Frederick N.; Rowlett, Glenford; and Beard, James D., 3,691,726.
Beard, John Q.: *See—*
Minero, Richard H.; Anello, Anthony J.; Furey, Robert G.; and Palounek, Lubos R., 3,660,646.
Beard, Kenneth A.; Daykin, Theodore W.; and Jagger, Gordon H., to Ford Motor Company. Windshield wiper motor link depressed park mechanism. 3,665,772, 5-30-72, Cl. 74-75.000.
Beard, Terry D.; and Garen, Eric R. Stereoscopic television system. 3,697,675, 10-10-72, Cl. 178-6.500.
Beard, Thomas N., to Shell Oil Company. Method for the recovery of shale oil. 3,666,014, 5-30-72, Cl. 166-271.
Beard, Walter C. Metering valve for fluid dispenser. 3,658,214, 4-25-72, Cl. 222-402.2.
Beard, William Q., Jr., to Ethyl Corporation. Oxydehydrogenation of ethane. 3,644,560, 2-22-72, Cl. 260-683.3.
Beard, William Q., Jr., to Ethyl Corporation. Oxydehydrogenation of ethane. 3,644,561, 2-22-72, Cl. 260-683.3.
Beard, William Q., Jr., to Ethyl Corporation. Ethylene from ethane halogen and hydrogen halide through fluidized catalyst. 3,658,933, 4-25-72, Cl. 260-683.1.
Beard, William Q., Jr., to Ethyl Corporation. Ethylene from ethane and halogen through fluidized rare earth catalyst. 3,658,934, 4-25-72, Cl. 260-683.3.
Beard, William Q., Jr., to Ethyl Corporation. Halodehydrogenation catalyst. 3,702,311, 11-7-72, Cl. 252-441.000.
Bearden, Roby, Jr.: *See—*
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Cull, Neville L.; Bearden, Roby, Jr.; and Mertzweiller, Joseph K., 3,660,518.
Bearden, Roby, Jr.; and De Feo, Richard J., Jr., to Esso Research and Engineering Company. Paraxylene recovery with zeolite adsorbent. 3,686,343, 8-22-72, Cl. 260-674.0sa.
Beardmore, Alfred Cyril; Cooke, Geoffrey Cyril; and Stringer, Donald Charles, to Avery, W. & T., Limited. Mechanical load measuring systems. 3,647,010, 3-7-72, Cl. 177-230.
Beardmore, Geoffrey; and Evans, Hugh W. Methods of machining. 3,684,678, 8-15-72, Cl. 204-192.000.
Beardsley, Earl A.; Bowditch, Hoel L.; and Prescott, Robert C., to Foxboro Company, The. Bumpless-transfer control system. 3,680,580, 8-1-72, Cl. 137-86.000.
Beardsley, Harold H., to Band-It Company. Band buckle, method of making and tool for applying. 3,641,629, 2-15-72, Cl. 24-23.
Beardsley, Jack M. Artificial stone facing construction and method therefor. 3,683,579, 8-15-72, Cl. 52-311.000.
Beardsley, Melville W. Impulse turbine propulsion device for marine craft. 3,669,565, 6-13-72, Cl. 416-185.
Beare, Gene K.; Kopelman, Bernard; and Seeger, Donald E., to Sylvania Electric Products, Inc. Indicating flashlamp. 3,676,663, 7-11-72, Cl. 240-1.300.
Bearfield, Clair A.: *See—*

Wieland, Roman G.; Weber, A. John; Bearfield, Clair A.; and Cole, Raymond, 3,640,520.

Bearpark, John Patrick; Pigott, Stanley Wilton; and Llewellyn, Rees Jenkin, to British Insulated Callender's Cables Limited. Manufacture of copper clad aluminium rod. 3,631,586, 1-4-72, Cl. 29-474.3.

Beasley, Donald L., to Townsend Engineering Company. Hold down attachment for a skinning machine. 3,667,521, 6-6-72, Cl. 146-130.

Beasley, Donald L., to Townsend Engineering Company. Fatting attachment for skinning machines. 3,674,071, 7-4-72, Cl. 146-130.000.

Beasley, Donald L., to Townsend Engineering Company. Hand operated fish skinning tool. 3,683,456, 8-15-72, Cl. 107-67.000.

Beasley, Donald L., to Townsend Engineering Company. Means for injecting fluid into meat products and the like. 3,683,789, 8-15-72, Cl. 99-256.000.

Beasley, Donald L., to Townsend Engineering Company. Skinning and slashing machine. 3,685,561, 8-22-72, Cl. 146-130.000.

Beasley French & Company Limited: *See*—
Hayes, Bruce Ian, 3,643,557.

Beasley, George A., to Itek Corporation. Grinding pad. 3,699,721, 10-24-72, Cl. 51-209.0dl.

Beasley, Jack O.; and Mohary, Paul J., to M & T Chemicals Inc. Current and fluid conducting arrangements. 3,668,506, 6-6-72, Cl. 321-8.00c.

Beasley, Noel F.: *See*—
Handler, Elliot; Beasley, Noel F.; Garcia, Armando J.; and May, Richard L., 3,699,712.

Beasley, Noel F.; and Wever, Ray, to Mattel, Inc. Telephone-talking doll simulator. 3,702,515, 11-14-72, Cl. 46-232.000.

Beasley, Robert W., to Nelson, Ted, Company. Adjustable form for casting concrete beams. 3,645,490, 2-29-72, Cl. 249-50.

Beasley, Silas V.; and Beam, Norman, to McGraw-Edison Company. Commercial waffle baker. 3,696,734, 10-10-72, Cl. 99-331.000.

Beasley, Tracy Rosser. Combined guitar and banjo. 3,633,452, 1-11-72, Cl. 84-263.

Beatenbough, Paul K.; and Gardner, John A., Jr., to General Motors Corporation. Bi-directional flow thermostat. 3,658,243, 4-25-72, Cl. 236-34.

Beatenbough, Paul K.; and Scherer, Carl A., to General Motors Corporation. Automatic expansion valve, in line, piloted. 3,702,066, 11-7-72, Cl. 62-222.000.

Beathan, Mark A. Handset lifter. 3,662,109, 5-9-72, Cl. 179-1.

Beaton, John; Edwards, Douglas C.; and Wunder, Richard Helmut, to Polymer Corporation Limited. Reactive polymers and process for the production thereof. 3,639,339, 2-1-72, Cl. 260-47.

Beaton, John M.; Van Rheenen, Verlan H.; and Parikh, Jekishan R., to Upjohn Company, The. Process for the selective reduction of 6-methylene-3-keto-Δ^4-steroids. 3,679,715, 7-25-72, Cl. 260-397.100.

Beaton, Joseph R. Hydraulic boom for earth excavating apparatus. 3,700,126, 10-24-72, Cl. 214-141.000.

Beaton, Joseph R. Transportable floating birling device with ladder mount. 3,701,527, 10-31-72, Cl. 272-1.00b.

Beatrice Caramel Apple Co., Inc.: *See*—
Raimondi, Vito O.; and Raimondi, William V., 3,660,118.

Beatrice, Finton J., to United States of America, Navy, mesne. Electronic angle generator. 3,648,041, 3-7-72, Cl. 235-186.

Beatrice Food Co.: *See*—
Brorson, Donald L.; and Magnuson, Raymond A., 3,677,322.

Beatrice Foods Co.: *See*—
Brorson, Donald L.; and Magnuson, Raymond A., 3,679,100.
Bundus, Robert H.; and Bingham, Robert J., 3,658,551.
Bundus, Robert H., 3,663,718.
Groves, Richard N., Jr.; Cain, Robert L.; and Senn, Robert F., 3,683,792.
Holloway, Milton J., 3,663,236.
Kasik, Robert L.; and Luksas, Anthony J., 3,667,968.
Kasik, Robert L.; and Luksas, Anthony J., 3,674,508.
Koziol, Walter, 3,667,648.
LaWarre, Robert W., 3,664,779.
Luksas, Anthony J., 3,689,286.
Peterson, Marvin A.; and Flint, Gerald A., 3,652,297.
Young, Edward G., 3,698,032.
Young, Edward G.; and Heggem, Howard W., 3,703,739.

Beatrice Foods Co., mesne: *See*—
Moran, William F.; and Kyrias, Lucian C., 3,663,267.

Beatrice Foods Company: *See*—
Gore, William C.; and Shapiro, Eugene B., 3,696,639.

Beatrice Foods Company, mesne: *See*—
Harrington, Herbert A.; Allen, William M.; and Kuhn, William C., 3,643,587.

Beattie, Thomas R.: *See*—
Christensen, Burton G.; Beattie, Thomas R.; and Graham, Donald W., 3,657,282.

Beattie, Willard H.; and Gallaway, William S., to Beckman Instruments, Inc. Apparatus for measuring scattered light. 3,640,627, 2-8-72, Cl. 356-104.

Beatty, David L. Outdoor speaker enclosure. 3,674,108, 7-4-72, Cl. 181-31.00b.

Beatty, Rex R.: *See*—
Ball, John F.; and Beatty, Rex R., 3,651,957.

Beatty, Robert W.: *See*—
United States of America, National Aeronautics and Space Administration, 3,702,979.

Beatty, Ronald L.: *See*—
Beutler, Hans; and Beatty, Ronald L., 3,682,759.

Beatty, Ronald L.; and Kiplinger, Dale V., to United States of America, Atomic Energy Commission. Pulsed method for impregnation of graphite. 3,664,859, 5-23-72, Cl. 117-46.0cg.

Beaty, Jeremy: *See*—
Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beaty, Jeremy, 3,641,627.
Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beaty, Jeremy, 3,682,761.

Beau, Raymond: *See*—
Le Page, Madeleine A.; Beau, Raymond; and Jacques, Maison-Alfort, 3,696,053.

Beau, Raymond; and Fourniquet, Jean, to Produits Chimiques Pechiney-Saint-Gobain. Agglomerated silica bodies and method. 3,655,580, 4-11-72, Cl. 252-317.

Beaubien, Laurent A.: *See*—
Mast, Phillip W.; and Beaubien, Laurent A., 3,703,012.

Beaubien, Thomas S., 1/2 to Johnson, Miller C. Whirling toy. 3,703,049, 11-21-72, Cl. 46-47.000.

Beaucamp, Klaus, to Boehringer Mannheim G.m.b.H. Process for the preparation of creatine phosphate. 3,639,211, 2-1-72, Cl. 195-29.

Beauchamp, Richard Lawrence, to Bell Telephone Laboratories, Incorporated. Positive electrode for use in nickel cadmium cells and the method for producing same and products utilizing same. 3,653,967, 4-4-72, Cl. 136-75.

Beauchamp, Robert Owens, Jr.; Ward, John Wesley; and Franko, Bernard Vincent, to Robins, A. H., Company, Incorporated. Dimethylisosorbide solvent for muscle relaxant drugs. 3,699,230, 10-172, Cl. 424-272.000.

Beauchemin, Marcel, to Sidel, Societe Anonyme. Apparatus for laying down articles on a conveyor. 3,693,777, 9-26-72, Cl. 198-26.000.

Beauchemin, Norman J.: *See*—
Murphy, William M.; and Beauchemin, Norman J., 3,687,730.

Beaucher, George J., to United States of America, Navy. Quick release mounting apparatus. 3,693,921, 9-26-72, Cl. 248-187.000.

Beauchet, Jean, to Societe Nouvelle de Roulements. Method for machining bodies of revolution having a circular generatrix. 3,664,067, 5-23-72, Cl. 51-289.

Beaud, Jean-Louis, to Hasler A.G. Adjusting and controlling reed relays. 3,670,131, 6-13-72, Cl. 219-7.5.

Beaudette, Charles G.: *See*—
Tyler, Victor M., II; Beaudette, Charles G.; and Chertok, Allan B., 3,662,339.

Beaudin, Dale A. Container. 3,669,168, 6-13-72, Cl. 150-.500.

Beaudoin, Benoit R.; Cohen, Joseph D.; Jones, David H.; Marier, Lester J., Jr.; and Raab, Harry F., Jr., to United States of America, Atomic Energy Commission, mesne. Light-water breeder reactor. 3,671,392, 6-20-72, Cl. 176-18.000.

Beaudoin, Jean Paul; Hogue, Hiral; and Larocque, Jacques; deceased (by Larocque, Patricia Powers; executrix). Package tape with sticks retained thereon. 3,695,423, 10-3-72, Cl. 206-56.00a.

Beaudoin, John F., to Pratt Manufacturing Corporation. Packaged surgical pad having protected wound-contacting surface and method of packaging same. 3,653,502, 4-4-72, Cl. 206-63.2.

Beaudoin, Laurent; and Richer, Sarto, to Bombardier Limited. Wheel construction. 3,666,323, 5-30-72, Cl. 301-63.

Beaudoin, Leon. Variable diameter centrifugal pulley with means to vary the mass of the centrifugal weights. 3,659,470, 5-2-72, Cl. 74-230.170.

Beaudoin, Norman R.; and Lauben, Robert W., to General Electric Company. Current-limiting circuit breaker having a field strap assembly. 3,632,932, 1-4-72, Cl. 200-147.

Beaudoox, Pierre Emile. Sugar cane sampler. 3,704,627, 12-5-72, Cl. 73-423.00r.

Beaudry, Harvey James; and Waidtlow, Robert M., to International Plasma Corporation. Polarity control electric power supply circuit. 3,648,059, 3-7-72, Cl. 307-127.

Beaudry, Harvey James, to International Plasma Corporation. Radio frequency generator circuits and components therefor. 3,648,191, 3-7-72, Cl. 330-192.

Beaudry, Harvey James, to International Plasma Corporation. Radio frequency wattmeter. 3,678,381, 7-18-72, Cl. 324-95.000.

Beaulieu, Alexander J.; and Johnson, Derwyn C., to Canada, Her Majesty the Queen of, as represented by the Minister of National Defence. Capacitor laser. 3,696,307, 10-3-72, Cl. 331-94.500.

Beaulieu, Alexandre J.; and Laflamme, Albert, to Canada, Her Majesty the Queen of, as represented by the Minister of National Defence. Double discharge laser. 3,662,284, 5-9-72, Cl. 331-94.5.

Beaulieu, Raymond D., to Monsanto Company. Sulfonated phenol-aldehyde resins. 3,677,979, 7-18-72, Cl. 260-2.20c.

Beaulieu, Raymond D., to Monsanto Company. Process for making methylolated phenol-sulfonic acid. 3,678,101, 7-18-72, Cl. 260-572.00r.

Beauloye, Ronald A. Facing and deburring handtool. 3,661,472, 5-9-72, Cl. 408-231.000.
Beaumatin, Jacques: *See—*
Barbarin, Jean-Francois; and Beaumatin, Jacques, 3,704,021.
Beaumont, Alan. Tape cartridge including direct viewing of cue indicia. 3,672,604, 6-27-72, Cl. 242-199.000.
Beaumont Birch Company: *See—*
Reiner, Joel Russell; Preusch, William J.; and Davenport, William G., 3,640,233.
Reiner, Joel Russell; Preusch, William J.; and Davenport, William G., 3,707,130.
Beaumont, Georges. Periodic gas generator. 3,683,951, 8-15-72, Cl. 137-81.500.
Beaumont, Richard W.: *See—*
Desmarais, Joseph C. B.; and Beaumont, Richard W., 3,650,346.
Beaumont, Richard W. Rock drill. 3,666,024, 5-30-72, Cl. 173-105.
Beaumont, Warren L.; and Cusano, Michael Richard, to Proctor Chemical Company, Inc., mesne. Metal acetate-acidic catalyst system for cellulosic fabric treatment. 3,634,019, 1-11-72, Cl. 8-116.3.
Beaunit Corporation: *See—*
Dale, Edwin L., 3,702,231.
Jayne, Clarence V.; Ragep, Gazie K.; and Templeton, James D., 3,702,260.
Beauregard, Paul E. Compartment for trailer. 3,652,122, 3-28-72, Cl. 296-23.
Beausoleil, William F., to International Business Machines Corporation. Memory with reconfiguration to avoid uncorrectable errors. 3,644,902, 2-22-72, Cl. 340-173.
Beausoleil, William F., to International Business Machines Corporation. High speed associative memory. 3,648,254, 3-7-72, Cl. 340-172.5.
Beausoleil, William F.; Ordemann, Fred A., Jr.; Pricer, Wilbur D.; and Vogl, Norbert G., Jr., to International Business Machines Corporation. Auxiliary storage apparatus. 3,648,255, 3-7-72, Cl. 340-172.5.
Beausoleil, William F., to International Business Machines Corporation. Auxiliary storage apparatus with continuous data transfer. 3,654,622, 4-4-72, Cl. 340-172.5.
Beausoleil, William F.; Brown, David T.; and Walker, Ernest L., to International Business Machines Corporation. Dynamically ordered magnetic bubble shift register memory. 3,670,313, 6-13-72, Cl. 340-174.0tf.
Beausoleil, William F.; Ho, Irving T.; Jen, Teh-Sen; and Pricer, W. David, to International Business Machines Corporation. Two device monolithic bipolar memory array. 3,697,962, 10-10-72, Cl. 340-173.00r.
Beausoleil, William F.; Brown, David T.; and Clark, William A., to International Business Machines Corporation. Shift register storage unit. 3,704,452, 11-28-72, Cl. 340-172.500.
Beautiline Limited: *See—*
Reilly, Frederick W., 3,645,569.
Reilly, Frederick William, 3,666,298.
Beautiline Showcase Systems: *See—*
Frank, Peter M.; and Watts, Frank M., 3,668,830.
Beaver, Bud K.; and Zakarian, A. David. Spark plug cleaning devices. 3,704,552, 12-5-72, Cl. 51-9.000.
Beaver, David J.: *See—*
Stoffel, Paul J.; and Beaver, David J., 3,697,252.
Beaver, Donald V.: *See—*
Harris, Everett K.; and Beaver, Donald V., 3,648,849.
Beaver, Donald V., to All-Steel Equipment Inc. Sandwich top construction for office furniture. 3,676,279, 7-11-72, Cl. 161-44.000.
Beaver, Murray W., to Technicon Corporation. Method and apparatus for the highly accurate, automatic determination of the hematocrit of whole blood samples. 3,648,160, 3-7-72, Cl. 324-30.
Beaver, Phillip R.; and Geddes, James C., Jr., to Ethyl Corporation. Preparation of dihydrocarbyl aluminum halides and dihydrocarbyl aluminum alkoxides. 3,657,300, 4-18-72, Cl. 260-448.
Beaver Precision Products, Inc.: *See—*
Doran, Leo F.; and Schlenker, Theodore R., 3,673,817.
Newman, William G., 3,642,330.
Beaver, Robert D., to Koontz Machine & Welding, Inc. Hydraulically operated winch. 3,698,690, 10-17-72, Cl. 254-186.000.
Beaver-Advance Corporation: *See—*
Gorgei, Donald J.; Weisz, Daniel I.; and Cooper, Russell B., 3,656,607.
Beavers, Dorothy J.: *See—*
Gates, John W., Jr.; Wise, Albert W.; Beavers, Dorothy J.; and Miller, Paul E., 3,641,046.
Gates, John W., Jr.; and Beavers, Dorothy J., 3,650,760.
Beavers, Dorothy J.; Staudenmayer, William J.; and Perry, Edmond S., to Eastman Kodak Company. Photographic diffusion transfer product and process. 3,632,338, 1-4-72, Cl. 96-29.
Beavers, J. W. Spare tire carrier. 3,648,867, 3-14-72, Cl. 214-454.
Beaverton, Daniel H.; Hall, Richard H.; and Lange, Clarence E. Removal of organic vapors from gas. 3,686,827, 8-29-72, Cl. 55-74.000.
Beavitt, Alan Robert, to Square D Company, mesne. Reed switches. 3,665,349, 5-23-72, Cl. 335-154.
Beavon, David K., to Parsons, Ralph M., Company, The. Process for removal of hydrogen sulfide from gas streams. 3,642,448, 2-15-72, Cl. 23-225.
Beazley, Rodney Thomas: *See—*
Cacciabue, Antonio; and Beazley, Rodney Thomas, 3,666,170.
Bebben, Charles J., Jr., to Narda Microwave Corporation, The. High frequency coupling device. 3,660,804, 5-2-72, Cl. 339-177.
Bebenburg, Walter V.; and Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Indanyl or tetralyl amino substituted aminopyridines. 3,681,366, 8-1-72, Cl. 260-295.50b.
Bebinger, Jack E., to Westinghouse Electric Corporation. Rapid mounting system for good waste disposer. 3,684,199, 8-15-72, Cl. 241-100.500.
Bebinger, Jack E., to Westinghouse Electric Corporation. Hopper assembly for batch disposer. 3,695,519, 10-3-72, Cl. 241-46.00b.
Bebo, Vernon H. Link chain detacher. 3,668,767, 6-13-72, Cl. 29-283.
Becca, Dante. Garment hanger. 3,692,216, 9-19-72, Cl. 223-91.000.
Becchi, Raffaele, to Olivetti, Ing. C., & C., S.p.A. Printing device with interchangeable printing members. 3,651,916, 3-28-72, Cl. 197-54.
Becchi S.p.A.: *See—*
Mazza, Lamberto, 3,659,580.
Beccone, John Peter; Kurokawa, Kaneyuki; and Schlosser, Wolfgang Otto, to Bell Telephone Laboratories, Incorporated. Multiphase digital modulator. 3,656,069, 4-11-72, Cl. 332-16.
Beccu, Klaus, to Battelle Memorial Institute. Accumulator electrode with capacity for storing hydrogen and method of manufacturing said electrode. 3,669,745, 6-13-72, Cl. 136-20.
Bechard, Emile; and Maurey, Veuve. Vaporization apparatus having rotatable hub and tubular members for the passage of distilland. 3,649,468, 3-14-72, Cl. 202-235.
Becher, Elisabeth; Els, Hans; and Schocher, Arno Johannes, to Hoffmann-La Roche Inc. Spirostan derivative. 3,634,461, 1-11-72, Cl. 260-345.7.
Becher, Heinz-Manfred; and Sehring, Richard, to Boehringer Ingelheim G.m.b.H. Novel O-(2-alkyl-4,6-dinitro-phenyl)-O'-(α-carbalkoxy-alkyl)-carbonates. 3,655,717, 4-11-72, Cl. 260-463.
Becher, Hermann: *See—*
Hans, Rainer; Lancier, Michael; and Becher, Hermann, 3,648,518.
Becher, Jan; and Ullman, Edwin F., to Synvar Associates. Free radical pH indicators. 3,706,537, 12-19-72, Cl. 23-230.00r.
Bechet, Louis; and Bertholon, Claude, to Compagnie Generale d'Electricite. Control means for an AC-DC or DC-AC energy converter for carrying direct current energy. 3,648,148, 3-7-72, Cl. 321-5.
Bechi, Rene, to Societe des Grands Travaux de Marseille. Stepwise-operating power apparatus. 3,653,634, 4-4-72, Cl. 254-29.
Bechler, Andre. Bar feed for automatic lathe. 3,696,696, 10-10-72, Cl. 82-.50.
Bechman, William H.; Lott, Walter E.; and Siewert, John F., to Westinghouse Air Brake Company. Lift and lock structure for scraper blade assembly. 3,660,914, 5-9-72, Cl. 37-129.
Bechmann, Gerhart, to Leitz, Ernst, G.m.b.H. Lens mount. 3,677,155, 7-18-72, Cl. 95-44.00c.
Becht, Guenter; Kunde, Joachim; La France, Norman; and Mueller, Karl Robert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Differential-dyeing textiles. 3,707,344, 12-26-72, Cl. 8-21.00b.
Becht, Raymond F. Plastic bag dispenser. 3,702,672, 11-14-72, Cl. 225-106.000.
Bechtel International Corporation: *See—*
Ellers, Frederick S.; Small, Sam W.; and Serpas, Luis B., 3,674,062.
Goerz, David J., Jr.; and Stephansen, Erik W., 3,678,594.
Neville, Roy G., 3,663,625.
Ragsdale, Harold E., 3,678,950.
Stephansen, Erik W., 3,672,066.
Wasp, Edward J., 3,637,263.
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Inamdar, Sayed-Ibrahim S., 3,696,367.
Bechtel, John D.: *See—*
Szumila, Anthony D.; Zimnoch, Joseph J.; Bechtel, John D.; and Steinberg, Harvey M., 3,671,865.
Bechthold, Horst; Dittmar, Heinz; Heinz, Ernst; and Rennhack, Rolf, to Metallgesellschaft Aktiengesellschaft. Method of and apparatus for the direct heating of fluidized-bed and vortex-layer reactors. 3,633,887, 1-11-72, Cl. 263-21.
Bechtler, Gunter: *See—*
Netheler, Heinrich; Bechtler, Gunter; and Bergmann, Wilhelm, 3,644,095.
Bechtold, Charles L.: *See—*
Austin, Amory Earl; and Bechtold, Charles L., 3,701,736.
Bechtold, George W.; Derr, Vernon F.; and Wiltse, James C., to United States of America, Army. Method and apparatus for generating third harmonic signals. 3,699,353, 10-17-72, Cl. 307-88.300.

Bechtold, Max F., to Du Pont de Nemours, E. I., and Company. Hexa(alkoxymethyl)melamine-modified hydroxylated fluoropolymer coating compositions and processes. 3,651,003, 3-21-72, Cl. 260-31.2.
Bechtold, Max F., to Du Pont de Nemours, E. I., and Company. Power fluids for Rankine cycle engines. 3,702,534, 11-14-72, Cl. 60-36.000.
Bechtold, Max Fredrick; and Tullock, Charles William, to Du Pont de Nemours, E. I., and Company. Power generation with rankine cycle engines using alkylated adamantanes as a working fluid. 3,648,456, 3-14-72, Cl. 60-36.
Beck, Alfred B., to TRW Inc. Three-port quadrature hybrids. 3,691,485, 9-12-72, Cl. 333-11.000.
Beck, Alfred B., to TRW Inc. Impedance transforming binary hybrid trees. 3,697,895, 10-10-72, Cl. 333-8.000.
Beck, Carl A., to PPG Industries, Inc. Method for wrapping molded pipe insulation. 3,658,614, 4-25-72, Cl. 156-187.
Beck, Charles H.; and Meyers, William F., to Honeywell Inc. DC voltage multiplier. 3,646,425, 2-29-72, Cl. 321-15.
Beck, Charles I.: *See—*
Cummisford, Patricia D.; and Beck, Charles I., 3,703,379.
Beck, Charles, Machine Corporation: *See—*
Switliski, Vincent S.; and Harmon, Arthur R., 3,694,999.
Beck, Christian A.: *See—*
Schrempp, Ernst; and Beck, Christian A., 3,637,201.
Schrempp, Ernst; and Beck, Christian A., 3,704,686.
Beck, Christian A., to Pitney-Bowes, Inc. Copy sheet handling apparatus for electrostatic office copiers. 3,640,523, 2-8-72, Cl. 271-28.
Beck, Christian A.; and Luperti, Harry E., to Pitney-Bowes, Inc. Tape printing and handling system. 3,660,203, 5-2-72, Cl. 156-384.
Beck, Cyrus, to United States of America, Navy. Real time image contrast and edge sharpness enhacing apparatus. 3,641,268, 2-8-72, Cl. 178-7.3.
Beck, David F.: *See—*
Breton, Roger J.; and Beck, David F., 3,682,092.
Beck, Dr., & Co., A.G.: *See—*
Schmidt, Karl; and Boockmann, Gerhard, 3,642,724.
Beck, Dr., & Co., GmbH: *See—*
Schmidt, Karl; Hansch, Ferdinand; Rombrecht, Hans-Malte; and Beck, Hans-Joachim, 3,697,471.
Beck, Earl J., Jr., to United States of America, Navy. Dredging method employing injection and suction nozzles. 3,646,694, 3-7-72, Cl. 37-195.
Beck, Earl J., Jr., to United States of America, Navy. Method and apparatus for rock excavation. 3,704,966, 12-5-72, Cl. 417-490.000.
Beck, Edward: *See—*
Bedo, Alfred; and Beck, Edward, 3,679,169.
Beck, Edward G., Jr., to Stolle Corporation, The. Flat sheet of metal having an elongated member secured thereto. 3,698,475, 10-17-72, Cl. 165-171.000.
Beck, Edward G., Jr., to Airtex Corporation, mesne. Apparatus for securing an elongated metal member to a flat metal sheet. 3,703,758, 11-28-72, Cl. 29-202.000.
Beck, Emanuel A.; and Bassnett, Arthur J., to United States of America, Navy. Coherent frequency multiplier and encoder. 3,706,928, 12-19-72, Cl. 325-33.000.
Beck, Erich, to Ingenieurbureau Dr. Brehm AG. Method and apparatus for maintaining constant the level of filling in a charging container arranged before a consuming device for pourable material, especially plastic granulate. 3,659,748, 5-2-72, Cl. 222-56.00.
Beck, Erich; and Schulz, Heinrich. Method and device for converting thermoplastic foil waste to a flowable granular material. 3,685,748, 8-22-72, Cl. 241-41.000.
Beck, Erich, to Ingenieurbureau Dr. Brehm AG. Method of, and apparatus for, spiral air classification of solid particles in a gaseous carrier. 3,693,791, 9-26-72, Cl. 209-144.000.
Beck, Eugene E. Essential oil composition and method of preparing the same. 3,704,137, 11-28-72, Cl. 99-140.00r.
Beck, Eugene F. Wheeled vehicle including hydraulic leveling system. 3,680,878, 8-1-72, Cl. 280-6.00h.
Beck, Eugene F. Hydraulic system. 3,699,676, 10-24-72, Cl. 60-52.00s.
Beck, Forrest E.: *See—*
Kelly, Jerry D.; and Beck, Forrest E., 3,664,962.
Beck, Fred R.; Fanella, Robert J.; and Gioia, Norman F., to Ampex Corporation. Tape reel and tape threading system. 3,640,483, 2-8-72, Cl. 242-74.1.
Beck, Fritz; Guthke, Harald; and Leitner, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of adiponitrile. 3,642,592, 2-15-72, Cl. 204-73.
Beck, Fritz; Himmele, Walter; Haufe, Juergen; and Brunold, Andreas, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Electrolytic condensation of carboxylic acids. 3,652,430, 3-28-72, Cl. 204-72.
Beck, Fritz; and Csizi, Gotthard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of electrodes. 3,672,990, 6-27-72, Cl. 117-230.000.
Beck, George R. Ornamental scarf clip. 3,639,949, 2-8-72, Cl. 24-49.0.
Beck, Gilbert: *See—*
Trieschmann, Hans-Georg; Pfannmueller, Helmut; Gropper, Hans; Gierth, Volker; and Beck, Gilbert, 3,664,988.
Beck, Gunther; and Holtschmidt, Hans, to Farbenfabriken Bayer Aktiengesellschaft. 4,5,6-Trichloro-2-chlorocarbonyl-pyrimidine. 3,637,694, 1-25-72, Cl. 260-251.
Beck, Hans-Joachim: *See—*
Schmidt, Karl; Hansch, Ferdinand; Rombrecht, Hans-Malte; and Beck, Hans-Joachim, 3,697,471.
Beck, Hansludwig: *See—*
Brandenburg, Helmut; and Beck, Hansludwig, 3,676,268.
Beck, Hansludwig; and Brandenburg, Helmut, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H. Glue applicator for corrugated paper machine. 3,688,736, 9-5-72, Cl. 118-221.000.
Beck, Harold & Sons, Inc.: *See—*
Johnson, Robert M., 3,667,578.
Beck, Heine-Jurgen: *See—*
Schacher, Willi; and Beck, Heine-Jurgen, 3,683,618.
Beck, Herbert P., to Allegheny Ludlum Steel Corporation. Reciprocating grinders. 3,643,045, 2-15-72, Cl. 200-47.
Beck, Jacob C., to Safety Devices, Inc. Safety apparatus. 3,672,466, 6-27-72, Cl. 182-3.000.
Beck, Jacob Howard, to BTU Engineering Corporation. Movable hearth furnace. 3,633,885, 1-11-72, Cl. 263-6.
Beck, James R., to Lilly, Eli, and Company. N-Alkoxyalkylidenesulfonamide compounds. 3,681,406, 8-1-72, Cl. 260-397.700.
Beck, Joseph H., to Video Information Systems, Inc. Interrogated transponder system. 3,676,580, 7-11-72, Cl. 178-5.100.
Beck, Louis. Airless spray gun extension. 3,700,174, 10-24-72, Cl. 239-526.000.
Beck, Manfred: *See—*
Sutter, Hubert; and Beck, Manfred, 3,703,567.
Beck, Marvin G.: *See—*
Woods, John A.; and Beck, Marvin G., 3,678,529.
Beck, Maurice E., to Kunkle Valve Company Inc. Mechanism for cutting threads using a tape controlled automatic machine. 3,651,722, 3-28-72, Cl. 82-5.
Beck, Maurice Sidney, to National Research Development Corporation. Measurement of the flow of particulate material. 3,636,763, 1-25-72, Cl. 73-194.
Beck, Merril G., to Lord Corporation. Composite leaf spring. 3,698,702, 10-17-72, Cl. 267-47.000.
Beck, Merrill G., to Lord Corporation. Axial suspension system that accommodate relative lateral movement. 3,677,535, 7-18-72, Cl. 267-63.000.
Beck, Nicholas R.: *See—*
Hale, Douglas; Manuel, James C.; and Beck, Nicholas R., 3,704,135.
Beck, Norman A., to Koppers Company, Inc. Marking device with selective marking wheels adjacent a punch member. 3,633,498, 1-11-72, Cl. 101-79.
Beck, Otto; and Spalding, Georg, to Hesser, Fr., Maschinenfabrik, A.G. Drive for a moving welding apparatus. 3,700,854, 10-24-72, Cl. 219-243.000.
Beck, Peter J.: *See—*
Stone, Joseph K.; Beck, Peter J.; and Prince, Edward J., 3,666,445.
Beck, Richard, Jr.; Gravelle, Homer E.; and Ferguson, James A., to Sundstrand Corporation. Centrifugal pump. 3,639,073, 2-1-72, Cl. 415-109.
Beck, Robert Haun, to Du Pont de Nemours, E. I., and Company. Floating film photographic developing apparatus. 3,635,144, 1-18-72, Cl. 95-89.
Beck, Roderick Gerald; Parks, Lyle Homer; and Shatila, Mounir Ahmad. Dehydrated potato processes and products. 3,634,105, 1-11-72, Cl. 99-207.
Beck, Roland D., to International Telephone and Telegraph Corporation. Positioning device. 3,656,082, 4-11-72, Cl. 337-366.
Beck, Roland D., to International Telephone and Telegraph Corporation. Sensitive high capacity room thermostat. 3,663,916, 5-16-72, Cl. 337-346.000.
Beck, Thomas F.: *See—*
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Becker, Albert H.; Hart, Joseph M.; and Quaal, John A., to Cutler-Hammer, Inc. Auxiliary switch for an electromagnetic relay. 3,680,016, 7-25-72, Cl. 335-106.000.
Becker, Andrew D., to Itek Corporation. Method of forming a gelable dispersion. 3,681,254, 8-1-72, Cl. 252-311.000.
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Becker, Carl H.; Dell, Harold R.; McFarland, Keith E.; and Wong, Herman, to Chase Manhattan Capital Corporation, mesne. Laser recording medium. 3,665,483, 5-23-72, Cl. 346-1.000.
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Becker, Klaus, to Demag Aktiengesellschaft. Syphon lifting device having piston actuated venting valve. 3,677,598, 7-18-72, Cl. 294-64.00r.
Becker, Klaus; and Wolski, Karlheinz, to Demag Aktiengesellschaft. Syphon or solids having a piston which is connected with a suspension arrangement. 3,694,020, 9-26-72, Cl. 294-64.00r.
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Becker, Marvin; and Belmuth, Harold. Girdle gripping surface. 3,638,658, 2-1-72, Cl. 128-535.
Becker, Matthews L.; and Chapman, Robert F., to Atlantic Richfield Company. Alkylation catalyst complex, its preparation and use. 3,657,148, 4-18-72, Cl. 252-429.
Becker, Norman. Board game apparatus. 3,690,665, 9-12-72, Cl. 273-130.0ab.
Becker, Norman D. Method and apparatus for drilling and casing a large diameter borehole. 3,674,100, 7-4-72, Cl. 175-69.000.
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Becker, Willi, to Pfeiffer, Arthur, Hochvakuumtechnik GmbH. Rotary molecular vacuum pump. 3,666,374, 5-30-72, Cl. 415-100.000.
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Bedi, Ram Dev, to M & T Chemicals Inc. Method of preventing etch in plating baths. 3,702,809, 11-14-72, Cl. 204-15.000.

Bedjai, Claude A.; and Antoine, Pierre N. Electronic remote control device utilizing modulated transmission of magnetically recorded signals filtered in a receiver. 3,688,268, 8-29-72, Cl. 340-147.00p.

Bedker, Bruce D.; and Wunderlich, Frederich C., to Salvo Tool & Engineering Company. Centering attachment. 3,673,832, 7-4-72, Cl. 72-35.000.

Bednar, David H., to Viking Explosives & Supply Inc. Hydraulically operated system for subsurface operations. 3,702,223, 11-7-72, Cl. 417-375.000.

Bednar, John S.: *See*—
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Bednarek, John H.: *See*—
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Bednarski, Thaddeus E., to Black and Decker Manufacturing Company, The. Insulated armature construction and method. 3,639,789, 2-1-72, Cl. 310-43.

Bednarski, Valery N. Gas chromatography method and apparatus. 3,695,003, 10-3-72, Cl. 55-67.000.

Bednartz, Hugo. Vessel insert for the preparation of beverages. 3,631,793, 1-4-71, Cl. 99-295.

Bedo, Alfred; and Beck, Edward, to Sno-Trik Company. High pressure valve and method. 3,679,169, 7-25-72, Cl. 251-88.000.

Bedocs, Michael F.: *See*—
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Bedocs, Michael F., to Cherry Electrical Products Corporation. Panel-mounted switch. 3,674,970, 7-4-72, Cl. 200-168.00c.

Bedore, Clifford J., to Weber, H. G., and Company, Inc. Method of closing bottom flaps of paper bags. 3,645,815, 2-29-72, Cl. 156-69.

Bedoukian, Paul Z. Citrus oil and other oils having enhanced specific gravity, and use thereof. 3,652,291, 3-28-72, Cl. 99-28.

Bedsole, Raymond A. Method of cooking and imparting natural barbecue flavor to pork meat. 3,644,124, 2-22-72, Cl. 99-107.

Bee, James William Moore, to Northern Electric Company Limited. Stabilizer for headset. 3,691,319, 9-12-72, Cl. 179-156.00a.

Beears, Warren L., to Goodrich, B. F., Company, The. Hexahydro-1,3,5-tris-(4-hydroxyarl)-s-triazines. 3,639,336, 2-1-72, Cl. 260-45.8.

Beebe, Cedric H.: *See*—
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Beebe, Harwood, Jr. Guide for watching sports. 3,698,741, 10-17-72, Cl. 283-63.000.

Beebe, Joseph A., to Buckeye Steel Castings Company, The. Resilient bearing mounting. 3,638,582, 2-1-72, Cl. 105-218.

Beebout, Howard E. Hay baling machine. 3,680,296, 8-1-72, Cl. 56-16.400.

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Beech, Austin Sidney; and Burrows, Roy, to Beech, Austin S., & Company Limited. Fluid controls with interlock for clutch and transmission. 3,664,470, 5-23-72, Cl. 192-3.570.

Beech, Frank, to GKN Sankey Limited. Apparatus for washing and filling containers for liquids. 3,648,742, 3-14-72, Cl. 141-92.

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Hardy, Kenneth David, 3,647,780.
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Long, Anthony Alfred Walter; and Nayler, John Herbert Charles, 3,674,776.
Love, Dennis Anthony; Neal, David Patrick John; and Pidgeon, Eric, 3,641,001.
Mamalis, Patrick, 3,666,757.
Moran, David Martin; and Croucher, Jack Vivian, 3,639,560.
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Beegle, Lindley Clair, to American Cyanamid Company. Electrochromic device having identical display and counter electrode materials. 3,704,057, 11-28-72, Cl. 350-160.000.

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Beeli, Johann Battesta, to International Telephone and Telegraph Corporation. Storage tube construction. 3,676,726, 7-11-72, Cl. 313-65.00r.
Beelitz, Howard Raymond, to RCA Corporation. Gated amplifier. 3,651,421, 3-21-72, Cl. 330-30.
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Beemer, Paul K., to Ameron, Inc., mesne. Apparatus for truing mortar coating. 3,691,992, 9-19-72, Cl. 118-107.000.
Beemsterboer, George L.: *See—*
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Beer, Heinz, to Siemens Aktiengesellschaft. Grounding switch for metal-clad high-voltage switching installations. 3,683,134, 8-8-72, Cl. 200-48.00r.
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Beer, Palle-Finn; and Smith, Kai Robert, to AGA Aktiebolag. Photometer chamber. 3,652,170, 3-28-72, Cl. 356-246.
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Beery, Jack, to Burroughs Corporation. Document separator control system. 3,635,465, 1-18-72, Cl. 271-41.
Beery, Jack, to Burroughs Corporation. Control system for battery regulated power supply. 3,691,397, 9-12-72, Cl. 307-66.000.
Beesch, Otto; Wolf, Karl; and Ziegler, Bodo, to Bosch, Robert, G.m.b.H. Glow plug. 3,689,195, 9-5-72, Cl. 431-208.000.
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Beeskow, Bruno, to Daimler-Benz Aktiengesellschaft. Intermediate support for the universal joint shaft of motor vehicles. 3,697,144, 10-10-72, Cl. 308-15.000.
Beesley, James P.; and Gunn, John B., to International Business Machines Corporation. High current low voltage regulated power supply. 3,679,959, 7-25-72, Cl. 321-47.000.
Beesley, Scott L. Cylindrical container storage construction. 3,664,545, 5-23-72, Cl. 221-176.000.
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Beghelli, Benito; and Camprincoli, Pierpaolo, to Montecatini Edison S.p.A. Process for preparing dye-receptive polyolefinic fibers. 3,658,937, 4-25-72, Cl. 260-837.
Beghelli, Benito; Vacanti, Francesco; and Guerani, Giampaolo, to Montecatini Edison S.p.A. Process for the preparation of pigmented polyolefin fibers. 3,681,280, 8-1-72, Cl. 260-41.000.
Begleiter, Manny, to Miner Industries, Inc. Compressed gas supply system. 3,643,677, 2-22-72, Cl. 137-113.

Begleiter, Manny, to Miner Industries, Inc. Nozzle for inflating balloons. 3,692,071, 9-19-72, Cl. 141-313.000.
Begleiter, Nancy, to Miner Industries, Inc. Toy vehicle with steerable drive assembly. 3,684,046, 8-15-72, Cl. 180-26.00r.
Begley, Richard T.; and Godshall, John L., to Westinghouse Electric Corporation. Niobium-base alloys. 3,682,626, 8-8-72, Cl. 75-174.000.
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Beguin, Daniel Edmond, to International Standard Corporation. Radar monopulse antennas with converting polarization. 3,701,160, 10-24-72, Cl. 343-755.000.
Beguin, Daniel Edmund, to International Standard Electric Corporation. Phase correction apparatus for circular polarization operation monopulse antenna horn. 3,699,583, 10-17-72, Cl. 343-756.000.
Beguin, Fred P., to American Optical Corporation. Air-damped hearing protector earseal. 3,644,939, 2-29-72, Cl. 2-209.
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Behn, Reinhard; Preissinger, Karl-Heinz; and Simson, Reiner, to Siemens Aktiengesellschaft. Impregnated electrical capacitor. 3,665,268, 5-23-72, Cl. 317-258.
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Beier, Gerhard; Heckmaier, Joseph; and Bauer, Johann, to Wacker-Chemie G.m.b.H. Process for polymerizing and copolymerizing vinyl choride in aqueous emulsions. 3,632,562, 1-4-72, Cl. 260-78.5.
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Beightol, Leroy Earl, to Nutt, Roy, mesne. Biopsy method. 3,679,450, 7-25-72, Cl. 117-3.000.

Beijer, Louis Benjamin: *See—*
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Bein, Georg Wilhelm. Rotating atomizer for electrostatic painting apparatus. 3,684,174, 8-15-72, Cl. 239-15.000.
Beinfest, Sidney; Jacura, Zenon; and Adams, Phillip, to Millmaster Onyx Corporation. Continuous process for the preparation of phosphonitrilic chloride cyclic polymers. 3,669,633, 6-13-72, Cl. 23-357.000.
Beinhocker, Gilbert D.; and Galinato, John S., to Beinhocker, Gilbert D., mesne. Electronic game board system. 3,654,392, 4-4-72, Cl. 179-2.
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Beinsch, Herbert, to Bosch, Robert, Photokino GmbH. Motion picture camera for the making of exposures with fixed and variable exposure times. 3,705,764, 12-12-72, Cl. 352-121.000.
Beirne, Patrick D., to Ethyl Corporation. Antioxidation of organic compositions. 3,637,585, 1-25-72, Cl. 260-45.85.
Beisemann, Heinz, to P. Konings Machinefabriek, Ijzer-en Metaalgieterij N.V. Hydrostatic bearing. 3,650,580, 3-21-72, Cl. 308-9.
Beisemann, Manfred, to Konings, P., Machinefabriek, Firma. Means utilizing compressed air for confining a pressurized oil film between relatively movable bearing surfaces. 3,640,590, 2-8-72, Cl. 308-9.
Beispel, Robert, to Extek Microsystems, Inc. Apparatus for continuous contact printing. 3,644,040, 2-22-72, Cl. 355-103.
Beispel, Robert, to Extek Microsystems, Inc. Contact printing method and apparatus with electrostatic means for film registration. 3,650,623, 3-21-72, Cl. 355-12.
Beisswenger, Heinrich, to Alkem Alpha-Chemie und-Metallurgie G.m.b.H. Mixing apparatus for powdered nuclear fuel. 3,672,642, 6-27-72, Cl. 259-50.000.
Beiswanger, John P. G.: *See—*
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Bejach, Benton, to Borg-Warner Corporation. Motor control system with compensation for low-frequency variations in motor energizing voltage. 3,670,235, 6-13-72, Cl. 321-18.000.
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Bekum Maschinenfabriken GmbH: *See—*
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Bel, Jean-Pierre. Quick-release inflatable envelope for life jackets and the like. 3,681,801, 8-8-72, Cl. 9-342.000.
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Belaieff, James Frank, to Frame S.A. Spraying rotor for a dish washing machine or an industrial glass-ware washing machine. 3,677,473, 7-18-72, Cl. 239-251.000.
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Belansky, Rudolph J., to Illinois Tool Works Inc. Clutch controlled drive mechanism. 3,656,320, 4-18-72, Cl. 64-24.
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Belart, Juan, to International Telephone and Telegraph Corporation. Power assisted brake. 3,638,426, 2-1-72, Cl. 60-54.6.
Belart, Juan; and Seidel, Ulrich, to ITT Industries, Inc. Warning device for dual circuit hydraulic brake systems. 3,670,122, 6-13-72, Cl. 200-82.00d.
Belart, Juan, to ITT Industries, Inc. Booster system. 3,683,619, 8-15-72, Cl. 60-54.60p.
Belasco, Melvin; and Borrello, Sebastian R., to Texas Instruments, Incorporated. Schottky barrier phototransistor. 3,700,980, 10-24-72, Cl. 317-235.00r.
Belasco, Melvin; and Borrello, Sebastian R., to Texas Instruments, Incorporated. Photosensitive semiconductor device. 3,703,408, 11-21-72, Cl. 117-212.000.
Belason, E. Bruce; Castle, George K.; Crowley, Donald P.; and Morgida, Joseph V., to Avco Corporation. Fire simulation facility. 3,647,193, 3-7-72, Cl. 263-1.
Belavsky, Mikhail Alexandrovich: *See—*
Chepigo, Sergei Vladimirovich; Belenky, Solomon Iosifovich; Somov, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotaev, Oleg Georgievich; Rodionova, Galina Sergeevna; Maximenko, Nikolai Spiridonovich; Glazman, Bori Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna, 3,654,084.
Belcher, Charles E. Rotary pump with integral rotor construction. 3,649,141, 3-14-72, Cl. 418-186.
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Belcher, Richard A.; and Kozacka, Frederick J., to Chase-Shawmut Company, The. Electric low-voltage fuse. 3,697,916, 10-10-72, Cl. 337-161.000.
Belcher, Richard A., to Chase-Shawmut Company, The. Electric cartridge fuse. 3,701,069, 10-24-72, Cl. 337-160.000.
Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., to Bunker-Ramo Corporation, The. Data handling apparatus. 3,656,148, 4-11-72, Cl. 340-324.
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Beletsky, Naum Iosifovich; and Chepovetsky, Mikhail Lvovich, to Vsesojuzny Proektno-Konstruktorsky Institut Svarochnogo Proizvodstva. Automatic rotary-swaging machine for reducing metal-wire parts. 3,686,912, 8-29-72, Cl. 72-70.000.
Beletsky, Naum Isosifovich; and Chepovesky, Mikhail Lvovich. Reducer head of automatic rotary-swaging machine for reducing metal-wire parts. 3,646,788, 3-7-72, Cl. 72-8.
Belew, Herschel W., Jr.: *See—*
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Belew, Robert R., to United States of America, National Aeronautics and Space Administration. Thermal compensating structural member. 3,675,376, 7-11-72, Cl. 52-1.000.
Belford, Bertram C., to Massey-Ferguson Services N.V. Automatically actuated vehicle indicator. 3,648,234, 3-7-72, Cl. 340-62.
Belgau, Frank A. Visual and audio perception testing and training apparatus. 3,698,800, 10-17-72, Cl. 351-32.000.

Belgium Standard Limited: *See—*
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Belisle, Alfred E.; and Nelson, John C., to Fox River Paper Corporation. Method of making a non-woven reinforced laminate. 3,652,353, 3-28-72, Cl. 156-62.4.
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Belke, Ralph E., to Belke Manufacturing Company. Bulged sphincteral seals for electroplating racks. 3,671,416, 6-20-72, Cl. 204-297.00r.
Belkin, Joseph W. Proctoscope. 3,701,347, 10-31-72, Cl. 128-5.000.
Belknap, Charles B.; and Drum, James R., to Hon Industries Inc. Followers for filing units. 3,687,326, 8-29-72, Cl. 220-22.300.
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Bell, Alan, to Foster Wheeler Corporation. Steam boilers. 3,696,793, 10-10-72, Cl. 122-4.00d.
Bell, Albert H., III, to General Motors Corporation. Gas turbine engine block. 3,680,983, 8-1-72, Cl. 417-409.000.
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Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A., 3,652,828.
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Bell, Anthony Geoffrey. High speed dynamic buffer. 3,675,043, 7-4-72, Cl. 307-205.000.
Bell, Anthony J., to Goodyear Tire & Rubber Company, The. Polymerization of chlorine containing unsaturated polymers and products thereof. 3,634,374, 1-11-72, Cl. 260-87.5.
Bell, Archie Y. Door hanging work bench. 3,643,935, 2-22-72, Cl. 269-16.
Bell, Barry Bernard; and Pederson, Wellington Edward, to RCA Corporation. Slurry process for coating particulate material upon a surface. 3,653,941, 4-4-72, Cl. 117-33.5.
Bell Canada: *See—*
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Bell, Charles Anthony; and Young, Anthony David, to National Research Development Corporation. Process controller. 3,643,076, 2-15-72, Cl. 235-151.1.
Bell, Charles C.; and Niederer, Kurt W., to Leesona Corporation. Textile machine. 3,688,486, 9-5-72, Cl. 57-34.00r.
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Bell, Charles H.: *See—*
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Carder, Frank B.; Stumpe, Warren R.; Frassetto, Bruno S.; and Bell, Charles H., 3,655,076.
Bell, Charles S.; and Wulff, Harald P., to Shell Oil Company. Olefin epoxidation. 3,702,855, 11-14-72, Cl. 260-348.0sl.
Bell, Clarence R. Rope splicing implement. 3,654,755, 4-11-72, Cl. 57-23.
Bell, Cyril Ove Robert; and Jones, Neville Murray, to Monsanto Chemicals Limited. Preparation of magnesium-containing lubrication oil detergents. 3,706,665, 12-19-72, Cl. 252-32.7hc.
Bell, David, to BP Chemicals (U.K.) Limited. Recovery of mercury. 3,647,359, 3-7-72, Cl. 23-2.
Bell, Edward H., to Westinghouse Air Brake Company. Vehicle speed sensor. 3,656,353, 4-18-72, Cl. 73-493.
Bell, Edward Hall; and Fichter, Barry Sayers, to American Standard, Inc. Fluidic combination lock. 3,633,392, 1-11-72, Cl. 70-275.
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Bell, George. Electrical lock for ignition systems. 3,644,745, 2-22-72, Cl. 307-10.
Bell, George. Electrical key for ignition systems. 3,660,624, 5-2-72, Cl. 200-44.
Bell, George E., to Xerox Corporation. Copy sheet package. 3,651,933, 3-28-72, Cl. 206-57.
Bell, George F.; and Carson, Kit P., to Du Pont de Nemours, E. I., and Company. Process for lining a plastic cylinder with another plastic. 3,649,409, 3-14-72, Cl. 156-294.
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Bell, Harry F.; Lazzarini, Donald J.; and Schultz, Lewis K. Anti-corrosive electrophoretic coating process. 3,699,029, 10-17-72, Cl. 204-181.000.
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Bell, Harvey W., III, to Stewart-Warner Corporation. Device for supporting semiconductor wafers. 3,678,893, 7-25-72, Cl. 118-500.000.
Bell, Howard F.; and Scheineman, John A., to Shell Oil Company. Pipeline flow tee. 3,677,292, 7-18-72, Cl. 137-544.000.
Bell, Jack T.; and Smith, Barton K., to Weyerhaeuser Company. Bottom flap folding and conveying apparatus. 3,673,764, 7-4-72, Cl. 53-374.000.
Bell, James Alexander Evert: *See—*
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Bell, James C., Jr., to Goodyear Aerospace Corporation. Mechanically operated erectable structure. 3,669,368, 6-13-72, Cl. 242-54.00a.
Bell, Jean, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). Method of and means for lubricating the lower bearings in a drilling machine. 3,666,329, 5-30-72, Cl. 308-8.2.
Bell, John Alan: *See—*
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Bell, John M.; and Mooney, Robert A., to Ford Motor Company. Tool for establishing ignition timing of a reciprocating internal combustion engine. 3,691,641, 9-19-72, Cl. 33-181.0at.
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Bell, Lee J. Rear view mirror attachment for vehicles. 3,701,507, 10-31-72, Cl. 248-467.000.
Bell, Leo A. Apparatus for indicating torque applied to pipe rotated by a rotary table. 3,668,926, 6-13-72, Cl. 73-136.00r.
Bell, Leo A. Torque control apparatus. 3,693,727, 9-26-72, Cl. 173-12.000.
Bell, Lon E., to Technor Incorporated. Crash sensing switch. 3,688,063, 8-29-72, Cl. 200-61.530.
Bell, Malcolm R.; Carlson, John A.; and Oesterlin, Rudolf, to Sterling Drug Inc. Process for preparing D-5,5-dimethyl-Δ^2-thiazoline-4-carboxylic acid derivatives. 3,666,770, 5-30-72, Cl. 260-306.7.
Bell, Norman; and Lam, Hung-Kei H., to Kaiser Aluminum & Chemical Corporation. Purification of magnesium chloride solutions. 3,676,077, 7-11-72, Cl. 23-296.000.
Bell, Norton W., to Bell & Howell Company. Phase-locked loop including a photo-electric phase detector. 3,634,776, 1-11-72, Cl. 331-25.
Bell, Oliver A., Jr., to Colt Industries Operating Corporation. Cut-off protection system for electrical discharge machining power supply. 3,705,969, 12-12-72, Cl. 219-69.00s.
Bell, Oran M.; and Walker, Joseph J. Ankle hitch. 3,680,551, 8-1-72, Cl. 128-84.00r.
Bell, Oran M.; and Walker, Joseph J. Traction splint. 3,680,552, 8-1-72, Cl. 128-84.00c.
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Bell, Ramsay M., to Hammond Machinery Builders, Inc. Device for smoothing irregularities. 3,685,393, 8-22-72, Cl. 90-1.400.
Bell, Randall P.: *See—*
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Bell, Randall P.; and Vanderhoef, John P., to Intercraft Industries Corporation. Interconnecting picture frames. 3,673,724, 7-4-72, Cl. 40-152.000.
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Bello, Phillip A.; and Salwen, Howard C., to Signatron, Inc. Communication system for eliminating time delay effects when used in a multipath transmission medium. 3,689,841, 9-5-72, Cl. 325-39.000.
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Bellows, Alfred H., to Polaroid Corporation. Compact rangefinding device. 3,680,946, 8-1-72, Cl. 350-10.000.
Bellsmith, Travis L.; and Fields, Richard W., to Velsicol Chemical Corporation. Silvicidal composition and method. 3,671,215, 6-20-72, Cl. 71-97.000.
Bellucci, Edward A.; and Winschel, Carl J., to American Sterilizer Company. Surgical table and control. 3,635,461, 1-18-72, Cl. 269-325.
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Bellware, James D., to General Motors Corporation. Depressed park windshield wiper. 3,699,605, 10-24-72, Cl. 15-250.170.
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Belohoubek, Erwin F., to United States of America, Navy, mesne. Microwave delay apparatus. 3,641,388, 2-8-72, Cl. 315-3.5.
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Belson, Henry S.; De Savage, Bernard F.; and Tebble, Robert S., to United States of America, Navy. Nondestructive readout thin film memory device and method therefor. 3,699,553, 10-17-72, Cl. 340-174.0tf.
Belson, Ross A.; and Palombo, Gaston A., to Honeywell Inc. High speed printer-paper feed engine. 3,644,806, 2-22-72, Cl. 318-7.
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Belton, John Price, Jr., to Bunker-Ramo Corporation, The. Digital frequency synthesizer. 3,701,027, 10-24-72, Cl. 328-17.000.
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Belwitz, Charles M., to Gulf Research & Development Company. Process for halogenating paraffins and cycloalkanes. 3,689,577, 9-5-72, Cl. 260-648.00r.
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Bennett, Charles H. Power boat with trim tabs. 3,695,204, 10-3-72, Cl. 114-66.50p.

Bennett, Donald L. Tools for applying self-adhesive surface covering material. 3,674,610, 7-4-72, Cl. 156-579.000.

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Bennett, Frank W.; and Van Delinder, Loren S., to Union Carbide Corporation. Anti-seize thread composition. 3,677,803, 7-18-72, Cl. 117-94.000.
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Najvar, Daniel J.; Parks, Christ F.; Bennett, Garry A.; and Nimerick, Kenneth H., 3,651,649.
Bennett, George Henry: *See*—
Morley, Frederick William Walton; Bennett, George Henry; Harvey, Richard George; and Wilson, Alan, 3,684,857.
Bennett, Grant S., to Western Geophysical Company of America. Marine imploder-type acoustic impulse generator. 3,642,090, 2-15-72, Cl. 181-.5.
Bennett, Harold L., to Dow Chemical Company, The. Device for measuring the friability of particulate solid materials. 3,636,772, 1-25-72, Cl. 73-432.
Bennett, Harry B. Steering column construction. 3,707,096, 12-26-72, Cl. 74-492.000.
Bennett, Homer A.: *See*—
Witt, Boston E.; and Bennett, Homer A., 3,634,226.
Bennett, Howard M.: *See*—
Jensen, Thomas H.; and Bennett, Howard M., 3,652,243.
Bennett, Howard W., to Armco Steel Corporation. Method of melting steel. 3,682,711, 8-8-72, Cl. 148-2.000.
Bennett, Ian Cameron: *See*—
Hondermarck, Jean Claude; Bennett, Ian Cameron; and Guillo, Jacques, 3,705,082.
Bennett, Ian Cameron; and Du Chaffaut, Jean Amaudric, to British Petroleum Company Limited, The. Solvent removal from microorganisms. 3,701,713, 10-31-72, Cl. 195-28.00r.
Bennett, James G.: *See*—
Cooper, Glenn D.; and Bennett, James G., 3,642,699.
Cooper, Glenn D.; and Bennett, James G., 3,661,848.
Bennett, James G.; and Cooper, Glenn D., to General Electric Company. Formation of polyphenylene ethers. 3,639,656, 2-1-72, Cl. 260-47.
Bennett, John Charles, to Atomic Power Constructions Limited. Emergency nuclear reactor shutdown systems. 3,682,771, 8-8-72, Cl. 176-35.000.
Bennett, John D., to Sun Oil Company. Method and apparatus for directional drilling. 3,633,686, 1-11-72, Cl. 175-4.5.
Bennett, John D., to Sun Oil Company (Delaware). Explosive drilling apparatus. 3,670,828, 6-20-72, Cl. 175-4.500.
Bennett, John D., to Sun Oil Company. Method and apparatus for cutting ice. 3,678,873, 7-25-72, Cl. 114-42.000.
Bennett, John D., to Sun Oil Company. Situ combustion initiation process. 3,680,633, 8-1-72, Cl. 166-256.000.
Bennett, John D. Subsea towing vessel. 3,688,721, 9-5-72, Cl. 114-16.00r.
Bennett, John D., to Sun Oil Company (Delaware). Bucket wheel ice cutter. 3,696,624, 10-10-72, Cl. 61-46.000.
Bennett, John E.; and Briggs, Richard Craig, to Sylvania Electric Products, Inc. Razor assembly. 3,644,992, 2-29-72, Cl. 30-64.
Bennett, John E.; and O'Leary, Kevin J., to Diamond Shamrock Corporation. Preparation of solid solutions of metallic oxide mixtures by flame-spraying. 3,677,975, 7-18-72, Cl. 252-518.000.
Bennett, John E. R., to United States of America, Air Force. Method of preloading a bearing. 3,651,550, 3-28-72, Cl. 29-148.4.
Bennett, John L.; and Bonfiglio, Charles P., to General Motors Corporation. Plastic string fastener having detachable parts. 3,665,560, 5-30-72, Cl. 24-136.00r.
Bennett, John P.; and Wilshin, Frank W., to Masson Scott Thrissell Engineering Limited. Web winder. 3,658,272, 4-25-72, Cl. 242-66.
Bennett, John S., to Massey-Ferguson Services, N.V. Lockable overrun device. 3,679,032, 7-25-72, Cl. 192-46.000.
Bennett, John T. Tool holder with provisions for accurately positioning cutting inserts and an improved chip breaking indexible insert. 3,688,367, 9-5-72, Cl. 29-105.000.
Bennett, Kenneth V. Airline oiler. 3,682,274, 8-8-72, Cl. 184-55.00a.
Bennett, Lawrence R.: *See*—
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Bennett, Leonard W.; Hutchinson, Thomas R.; and Schilling, Winston H., to Motorola, Inc. Miniature transmitter receiver housing. 3,701,016, 10-24-72, Cl. 325-16.000.
Bennett, Melvin L. End shield for paint roller. 3,685,084, 8-22-72, Cl. 15-230.110.
Bennett, Michael Camm; and Gardiner, Sidney David, to Tate & Lyle Limited. Manufacture of aragonite. 3,669,620, 6-13-72, Cl. 23-66.000.
Bennett, Michael Camm, to Tate & Lyle Limited. Sugar refining. 3,698,951, 10-17-72, Cl. 127-48.000.
Bennett, Moreland P. Tab welded joint and method of making. 3,640,556, 2-8-72, Cl. 287-189.36.
Bennett, Moreland P., to General Electric Company. Method of joining copper braid to aluminum and the joint formed thereby. 3,648,014, 3-7-72, Cl. 219-118.
Bennett, Moreland P., to General Electric Company. Metallurgical bonding of dissimilar metals. 3,678,242, 7-18-72, Cl. 219-118.000.
Bennett, Norman J.; and Haesler, Robert W., to Vickers Ruwolt Proprietary Limited. Loading and unloading apparatus. 3,633,765, 1-11-72, Cl. 214-1.
Bennett, Raymond G., to United Filtration Corporation. Crankcase ventilating valve. 3,659,573, 5-2-72, Cl. 123-119.
Bennett, Raymond G.; and Luedi, Mark, to Novo Industrial Corporation-United Air Cleaner Division. Air cleaner with improved unloading apparatus. 3,696,591, 10-10-72, Cl. 55-337.000.
Bennett, Richard H.: *See*—
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Bennett, Richard J.: *See*—
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Bennett, Richard J., to Phillips Petroleum Company. Dust-retentive article. 3,658,578, 4-25-72, Cl. 117-122.
Bennett, Richard L., to Perkins Research & Mfg. Co. Apparatus for identifying telephone cable pairs. 3,699,274, 10-17-72, Cl. 179-175.000.
Bennett, Robert B.: *See*—
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Bennett, Robert B.; and McMordie, Warren C., Jr., to Oil Base, Inc. Oil base well drilling fluid composition and method. 3,642,623, 2-15-72, Cl. 252-8.5.
Bennett, Robert Neil; Parker, Richard Nigel; and Burbidge, Bernard Whiting, to British Petroleum Company Limited, The. Production of lubricating oils. 3,663,423, 5-16-72, Cl. 208-59.
Bennett, Ronald W.; Parker, Donald L.; and Shaw, Arthur R., to General Motors Corporation. Brake lining wear sensing circuit. 3,675,197, 7-4-72, Cl. 340-52.00a.
Bennett, Roswell J., to Union Carbide Corporation. Oxygen-depolarized galvanic cell. 3,674,563, 7-4-72, Cl. 136-86.00a.
Bennett, Samuel M. Toilet tank flush valves. 3,702,012, 11-7-72, Cl. 4-57.00p.
Bennett, Sedgwick R.: *See*—
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Bennett, Sydney, to Shaw, Joshua, & Sons Limited. Control device for a hydrostatic transmission and a hydrostatic transmission embodying such a device. 3,654,760, 4-11-72, Cl. 60-52.
Bennett, Tarquin C. Bun warmer and steamer and hot dog cooker. 3,682,664, 8-8-72, Cl. 99-339.000.
Bennett, Thomas M.: *See*—
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Bennett, Willard H. Apparatus for producing a highly concentrated beam of electrons. 3,639,849, 2-1-72, Cl. 328-228.
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Sherman, Warren S.; Troth, Dennis L.; and Bennett, William A., 3,646,755.
Bennett, William C., to Novar Corporation. Character select indicator for typewriter. 3,679,037, 7-25-72, Cl. 197-19.000.
Bennett, William C.; Condon, David C.; and Brink, Rodney O., to Novar Corporation. Digital data recording and reproducing system. 3,688,286, 8-29-72, Cl. 340-174.01g.
Bennett, William Coffey; and Stastny, Edwin O., to Nouar Corporation. Coaxial tape cartridge. 3,690,590, 9-12-72, Cl. 242-194.000.
Bennett, William G.; and Miller, Donald M., to Teleflex, Inc. Remote control assembly. 3,662,617, 5-16-72, Cl. 74-501.00r.
Bennett, William G., to Teleflex, Inc. Remote control assembly. 3,665,784, 5-30-72, Cl. 74-501.000.
Bennett, William Raymond: *See*—
Cotton, Joseph Bernard; Bennett, William Raymond; Bell, John Alan; and Hayfield, Peter Charles Steele, 3,645,862.
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Bennigsen, Gerd Von, to Reinz Dichtungs-Gesellschaft mbH. Jacketed gasket. 3,653,674, 4-4-72, Cl. 277-231.
Benning, Bennie LeRoy, to FMC Corporation. Production of barium hydroxide monohydrate. 3,661,520, 5-9-72, Cl. 23-186.
Benning, Calvin J., to Grace, W. R., & Co. Radiation-initiated, self-sealing system for spacecraft. 3,666,133, 5-30-72, Cl. 220-15.
Benning, Gregory M.; and Shipp, Dennis E., to Caterpillar Tractor Company. Router bit for scraper bowl. 3,643,357, 2-22-72, Cl. 37-141.
Benning, Herman J.G.M.: *See—*
Roza, Engel; Benning, Herman J.G.M.; and Lommers, Anthonius J.J.C.L., 3,665,344.
Benno, Edward L. Livestock feeding machine. 3,654,977, 4-11-72, Cl. 146-70.1.
Beno, Emil V.; and Novak, Michael A. Novelty pocket item. 3,704,470, 12-5-72, Cl. 2-279.000.
Benoist, Yves. Display unit for plants, particularly flowers. 3,657,840, 4-25-72, Cl. 47-41.
Benoit, Henry F. Rag feeder. 3,640,377, 2-8-72, Cl. 198-178.
Benoit, Henry F. Rag picker. 3,657,777, 4-25-72, Cl. 28-17.
Benoit, Hubert J. O. H. Bag holder. 3,653,620, 4-4-72, Cl. 248-101.
Benoit, Remi A. In-line centrifugal fan. 3,650,633, 3-21-72, Cl. 415-143.
Benoit, Roland A.; and Curran, John H., to InterRoyal Corporation. Crib construction. 3,649,973, 3-21-72, Cl. 5-100.
Benoit, Roland A., to Interroyal Corporation. Mounting device for electrical switch. 3,705,282, 12-5-72, Cl. 200-168.00r.
Benoit, Yvonne R.: *See—*
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Bense, William M., to Leesona Corporation. Strand control apparatus. 3,672,588, 6-27-72, Cl. 242-45.000.
Bensel, Joachim: *See—*
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Bensel, Joachim, to Siemens Aktiengesellschaft. Apparatus for measuring current in high voltage lines. 3,662,263, 5-9-72, Cl. 324-96.
Benskin, Glen D.: *See—*
Le Vantine, Allan D.; and Benskin, Glen D., 3,648,045.
Benslay, Roger M.: *See—*
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Benslay, Roger M.; and Jones, Arthur L., to Standard Oil Company, The. Dehydrogenation of ethylbenzene. 3,652,698, 3-28-72, Cl. 260-669.
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Munson, Robert V.; and Bensmiller, Richard E., 3,657,926.
Benson, Albert; and Karg, Gerhart, to Witco Chemical Corporation. Emulsification of hydrocarbons in aqueous electrolyte solutions. 3,634,284, 1-11-72, Cl. 252-312.
Benson, Albert; and Mausner, Marvin, to Witco Chemical Corporation. Retardation of formation of color-forming bodies in alkylaryl sulfonic acids. 3,681,443, 8-1-72, Cl. 260-505.00p.
Benson, Allen B.; and Hatley, Elbert Troy, to International Business Machines Corporation. Passive magnetic transfer of discrete magnetic information. 3,665,513, 5-23-72, Cl. 346-74.00m.
Benson, Bengt Anders; and Hammarstrom, Karl Enar. Container or dispensing device for rolls of sheet material, such as paper, metal foil etc.,. 3,648,910, 3-14-72, Cl. 225-53.
Benson, Carl I., Jr., to Paragon Gears Incorporated. Marine power transmission. 3,636,909, 1-25-72, Cl. 115-34.
Benson, Charles R.: *See—*
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Benson Equipment Co., Inc.: *See—*
Benson, Ernest J.; and Fischer, Charles G., 3,668,821.
Benson, Ernest J.; and Fischer, Charles G., to Benson Equipment Co., Inc. Cutting and wrapping machine. 3,668,821, 6-13-72, Cl. 53-123.000.
Benson, Field and Epes: *See—*
Benson, Homer E., 3,642,430.
Benson, Homer E., 3,685,960.
Benson, Glendon M., to Physics International Company, mesne. Electromechanical actuator having an active element of electroexpansive material. 3,635,016, 1-18-72, Cl. 60-23.
Benson, Gustav E.: *See—*
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Benson, Gustav E.; and Pisani, James M., to Owens-Corning Fiberglas Corporation. Sewn tire cord splice and method. 3,672,148, 6-27-72, Cl. 57-159.000.
Benson, Harvey D.: *See—*
Palopoli, Frank P.; and Benson, Harvey D., 3,634,517.
Benson, Harvey R.; and Ashley, Milton V., Jr., to United States of America, Army. Range safety device. 3,695,142, 10-3-72, Cl. 89-1.812.
Benson, Homer E., to Benson, Field and Epes. Separation of CO_2 and H_2S from gas mixtures. 3,642,430, 2-15-72, Cl. 23-2.
Benson, Homer E., to Benson, Field and Epes. Separation of CO_2 and H_2S from gas mixtures. 3,685,960, 8-22-72, Cl. 23-2.00r.
Benson Industries Limited: *See—*
Benson, Russell Richard, 3,703,970.
Benson, James R., to Durrum Chemical Corporation. Chromatographic method. 3,686,118, 8-22-72, Cl. 210-31.00c.
Benson, John F.; and Shern, Daniel R., to Procter & Gamble Company, The. Apparatus for adjusting the center distance between bearing support members. 3,684,332, 8-15-72, Cl. 308-60.000.
Benson, John T.: *See—*
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Lemkin, Jack L.; Leistikow, Gerard K.; Edmisson, Russell C.; and Benson, John T., 3,670,449.
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Benson, Kenneth E.: *See—*
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Benson, Marshall, to Xerox Corporation. Xerographic development apparatus. 3,696,784, 10-10-72, Cl. 118-637.000.
Benson, Merle K., 1/2 to Brown, Howard W. Tire slitting machine. 3,648,752, 3-14-72, Cl. 157-13.
Benson, Raymond E., to Olin Corporation. Vaporizing fitting for propane stove. 3,643,645, 2-22-72, Cl. 126-38.
Benson, Reginald B. G. Electromagnetic devices. 3,639,870, 2-1-72, Cl. 335-257.
Benson, Robert W.; Chapman, James Ronald; Reed, Robert G.; and Smith, Hoyt L., to Cutters Machine Company, Inc. Electrically controlled cloth spreading machine. 3,663,006, 5-16-72, Cl. 270-31.
Benson, Robert W.; and Reed, Robert G., to Cutters Machine Company, Inc. Cloth feed control for spreading machine. 3,684,273, 8-15-72, Cl. 270-31.000.
Benson, Royal H., to Monsanto Company. Analytical method and apparatus. 3,660,036, 5-2-72, Cl. 23-230.
Benson, Royal H., to Monsanto Company. Liquid scintillator compositions for gamma-ray counting. 3,673,100, 6-27-72, Cl. 252-301.30r.
Benson, Royal H.; and Bodre, Robert J., to Monsanto Company. Safety device for removing tritium gas from a gas stream. 3,679,366, 7-25-72, Cl. 23-254.00r.
Benson, Russell Richard, to Benson Industries Limited. Apparatus for treating waste material. 3,703,970, 11-28-72, Cl. 241-241.000.
Benson, Sidney W.; Haugen, Gilbert R.; and Jackson, Roland S., to Stanford Research Institute. Detection device. 3,647,387, 3-7-72, Cl. 23-232.
Benson, Victor M.; and Klein, Stuart K., to Honeywell Inc. Interlocking data subprocessors. 3,651,482, 3-21-72, Cl. 340-172.5.
Benson, Victor Mark: *See—*
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Benson, William; and Short, Gordon, to Cotton Silk and Man-Made Fibres Research Association, The. Method and apparatus for forming yarn. 3,636,693, 1-25-72, Cl. 57-58.95.
Benson, William G., to Litton Business Systems, Inc. Handheld magnetic transducer with tip members having a hemisperical reading portion. 3,674,943, 7-4-72, Cl. 179-100.20c.
Benson-Lehner Corporation: *See—*
Kan, Philip T.; and Huson, Andrew S., 3,636,314.
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Bent, Christopher James; Flynn, Terence David; and Glover, Brian, to Imperial Chemical Industries, Limited. Process for transfer dyeing of synthetic textile materials. 3,702,752, 11-14-72, Cl. 8-2.500.
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Bent, Keith Joseph; and Cox, John Michael, to Imperial Chemical Industries Limited. Metal complexes. 3,682,971, 8-8-72, Cl. 260-343.20r.
Bent, Richard L.; and Mowrey, Rowland G., to Eastman Kodak Company. Color photographic processes. 3,656,950, 4-18-72, Cl. 96-22.
Bent, Richard L.; and Mowrey, Rowland G., to Eastman Kodak Company. Reversal color photographic processes. 3,658,525, 4-25-72, Cl. 96-22.
Bentall, Richard Hugh Cameron, to National Research Development Corporation. Fortal blood sampling endoscope. 3,685,509, 8-22-72, Cl. 128-2.00f.
Bente, Waldama. Fluidized sand trap ejector. 3,677,590, 7-18-72, Cl. 291-3.000.
Benteler, Helmut; and Lachenmayer, Wilhelm, to Benteler-Werke AG. Method of jacketing tubular stock with polyolefin foam. 3,649,730, 3-14-72, Cl. 264-47.
Benteler, Helmut; Hartmann, Franz-Josef; and Hefendehl, Heinz, to Benteler-Werke Aktiengesellschaft. Method for manufacturing shafts for vehicles. 3,668,918, 6-13-72, Cl. 72-364.000.
Benteler-Werke AG: *See—*
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Benteler-Werke Aktiengesellschaft: *See—*
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Bentex Pharmaceutical Company: *See—*
Svajda, Leonard J., 3,689,636.
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Bentholm, Svend Asger Rud; and Koenen, Wilhelm Engelinus, to Organon Inc. Process for the manufacture of rapidly disintegrating solid dosage unit forms. 3,679,794, 7-25-72, Cl. 424-148.000.
Bentin, John, Inc.: *See—*
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Bentkowsky, Jerome; and Beran, W. Tait, to United States of America, Navy, mesne. Hydraulic load limiting system. 3,667,227, 6-6-72, Cl. 60-53.0ww.
Bentley, Allan M.; and Christensen, Elmer, to Black Clawson Company, The. Log barker. 3,667,517, 6-6-72, Cl. 144-208.
Bentley, Arthur P. Reduction gear transmission. 3,633,430, 1-11-72, Cl. 74-690.
Bentley, David J., Jr.: *See—*
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Bentley, Floyd Edward; and Godfrey, Norman Bell, to Jefferson Chemical Company, Inc. Accelerator combination for epoxy curing. 3,639,928, 2-8-72, Cl. 260-47.
Bentley, George L.; and Roe, Jonas L., to Santa Cruz Aggregates Co. Liquid filter for removing fine clay particles and the like. 3,684,098, 8-15-72, Cl. 210-374.000.
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Benton, Elton J.: *See—*
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Benton, Richard; and Gonzeles, Michael, to Dibble, Leland, Jr., mesne. Marble labyrinth puzzle. 3,689,074, 9-5-72, Cl. 273-153.00r.
Benton, Richard H.: *See—*
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Benton, Robert C.; and Heffner, Blair W., to Chemcut Corporation. Troughed strip monitoring type speed control for continuous etcher. 3,657,049, 4-18-72, Cl. 156-345.
Benton, Robert C.; and Heffner, Blair W., to Chemcut Corporation. Built in type speed control for conveyorized continuous etcher. 3,663,724, 5-16-72, Cl. 156-345.
Benton, Stephen A., to Polaroid Corporation. Method for making reduced bandwidth holograms. 3,633,989, 1-11-72, Cl. 350-3.5.
Benton, Stephen A., to Polaroid Corporation. Direct orthoscopic stereo panoramagram camera. 3,657,981, 4-25-72, Cl. 95-18.
Bentsen, Louis J.: *See—*
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Bentsen, Louis J., to Honeywell Inc. Diaphragm logic control circuit for electric heating system. 3,670,745, 6-20-72, Cl. 137-84.000.
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Bentvelzen, Joseph Maria; and Millington, Alan Dennis, to Consolidated Papers, Limited. Tape reinforced laminated product. 3,700,536, 10-24-72, Cl. 161-57.000.
Bentz, Alan P.; and Mezzino, Joseph F., to General Foods Corporation. Earthy flavor composition comprising diacetyl and 2,4,5-trimethyl oxazole. 3,666,494, 5-30-72, Cl. 99-140.
Bentz, Alan P.; and Scarpellino, Richard, to General Foods Corporation. Flavor enhancing materials and method of preparing same. 3,676,156, 7-11-72, Cl. 99-140.00r.
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Bentz, Francis; Lesch, Dieter; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of diarylethers. 3,634,519, 1-11-72, Cl. 260-612.
Bentz, Raymond L.: *See—*
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Bentzien, Leonard T., to Shriver, T., & Company, Inc. Plate shifter and scraper assembly for filter presses. 3,637,082, 1-25-72, Cl. 210-225.
Bentzman, Louis, to Electrocopy Corporation. Non-aligned image optical system for an electrostatic copy machine. 3,656,848, 4-18-72, Cl. 355-8.
Benward, Harold. Compact tackle and utility box. 3,668,802, 6-13-72, Cl. 43-57.500.
Benware, Robert Edgar, to Allen & Company F.O.F. Proprietary Funds, Ltd., mesne. Sealing mechanism. 3,642,248, 2-15-72, Cl. 251-172.
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Beny, Janos; Bosley, Denis V.; and Kennedy, Melvin R., to Mattel, Inc. Toy means for measuring toy vehicle drag and/or drift. 3,654,728, 4-11-72, Cl. 46-39.
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Benz, Hanspeter, to Varian Associates. Method and apparatus for automatic phase control in a fourier analyzed readout of impulse resonance data. 3,674,998, 7-4-72, Cl. 235-151.300.
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Benz, Jakob; and Schweizer, August, to Sandoz Ltd.; a/k/a Sandoz A.G. Pyrimidine dyestuffs. 3,660,386, 5-2-72, Cl. 260-242.000.
Benz, John W., to Standard Pressed Steel Co. Method of lubricating metal fasteners with an aqueous lubricant composition. 3,634,129, 1-11-72, Cl. 117-119.6.
Benz, Mark G.: *See—*
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Benz, Mark G., to General Electric Company. Sintered cobalt-rare earth intermetallic process using solid sintering additive. 3,655,463, 4-11-72, Cl. 148-101.
Benz, Mark G., to General Electric Company. Process of preparing liquid sintered cobalt-rare earth intermetallic product. 3,655,464, 4-11-72, Cl. 148-101.
Benz, Mark G.; and Martin, Donald L., to General Electric Company. Heat-aged sintered cobalt-rare earth intermetallic product and process. 3,684,593, 8-15-72, Cl. 148-102.000.
Benz, Mark G., to General Electric Company. Method of producing a sintered cobalt-rare earth intermetallic product. 3,695,945, 10-3-72, Cl. 148-103.000.
Benz, Willi, to Schloemann Aktiengesellschaft. Levelling machine for sheet and strip metal. 3,650,137, 3-21-72, Cl. 72-165.
Benze, David L.: *See—*
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Beran, Wilhelmine, to Laevosan-Gesellschaft Chem. Pharm. Industrie Frank & Dr. Freudl. Steroid compounds effective against, cardiac conditions and method of their preparation. 3,706,727, 12-19-72, Cl. 260-210.500.
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Berardi, Martin J. Reactor filter assembly. 3,651,942, 3-28-72, Cl. 210-140.
Berardi, Michael P. Electrical musical stringed instruments. 3,696,700, 10-10-72, Cl. 84-291.000.
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Berchak, James L. Knock-down garment rack with selectively positionable wheels. 3,705,731, 12-12-72, Cl. 280-36.00r.

Bercheux, Marcel, to Boussois Souchon Neuvesel. Device for locking door and window leaves. 3,631,629, 1-4-72, Cl. 49-256.

Berchicci, Emilio. Device for anatomically positioning the human body against a seat back. 3,642,319, 2-15-72, Cl. 297-284.

Berchou, William J., to Acme Highway Products Corporation. Sealing member. 3,645,176, 2-29-72, Cl. 94-18.

Bercovitz, Nathaniel, Jr., to Collins Radio Company. Phase detector using logic gating circuits. 3,659,196, 4-25-72, Cl. 324-83.00a.

Bercz, Jeno Peter: *See—*
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Berding, Christoph; Guenthert, Paul; Schulz, Gerhard; and Koehler, Waldemar, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alkali metal salts of nitrilotriacetic acid. 3,689,543, 9-5-72, Cl. 260-534.00e.

Berdt, Hans-Detlef; Steinbeck, Hermann; and Wiechert, Rudolf, to Schering A.G. 18-Methyl-1, 4-androstadienes and process of making the same. 3,646,075, 2-29-72, Cl. 260-397.4.

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Bereday, Sigmund. Seat construction. 3,675,970, 7-11-72, Cl. 297-452.

Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Laubie, Michel, to Science Union et Cie, Societe Francaise de Recherche Medicale. Sulfamyl benzoic acid compounds. 3,651,122, 3-21-72, Cl. 260-470.

Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude, to Societe en nom collectif 'Science Union et Cie. Carbalkoxyaminopropane. 3,663,595, 5-16-72, Cl. 260-471.

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Beregi, Laszlo; Hugon, Pierre; and Desnoyers, Pierre, to Societe en nom collectif "Science Union et Cie, Societe Francaise de Recherche Medicale". Azabicycloalkyl urea compounds. 3,696,117, 10-3-72, Cl. 260-326.300.

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Berenson, Herman; Stonier, Robert Alden; and Wiese, Eugene Everett, to American Cyanamid Company. Germicidal detergent compositions in controlling dandruff. 3,697,655, 10-10-72, Cl. 424-204.000.

Berentzen, Hardo, to Groz, Theodor and Sohne and Ernest Beckert Nadelfabrik Commandit-Gesellschaft. Latch needle for knitting machines. 3,699,784, 10-24-72, Cl. 66-123.000.

Beres, Steven W., to VCA Corporation. Tamperproof aerosol dispenser. 3,675,831, 7-11-72, Cl. 222-402.110.

Beresic, John I. Hopper material supply indicator. 3,697,708, 10-10-72, Cl. 200-61.210.

Beresniewicz, Aleksander, to Du Pont de Nemours, E. I., and Company. Uniform ethylene/vinyl acetate/N-methylol acrylamide terpolymer dispersions. 3,679,620, 7-25-72, Cl. 260-29.6ta.

Berestov, Evgeny Stepanovich: *See—*
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Beretta, Alessandro. Automatic tape transducer mechanism. 3,666,208, 5-30-72, Cl. 242-198.

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Berezin, Evelyn; Wolf, Edgar; Cohen, William D.; and Marino, Francis C., to Digitronics Corporation. Information signal generation apparatus. 3,651,311, 3-21-72, Cl. 235-61.11.

Berezin, Gilbert H., to Du Pont de Nemours, E. I., and Company. Spiroazetidine-ethanoanthracenes. 3,646,010, 2-29-72, Cl. 260-239.

Berezin, Gilbert H., to Du Pont de Nemours, E. I., and Company. Azatricyclic lactams. 3,661,896, 5-9-72, Cl. 260-239.2.

Berezin, Gilbert H., to Du Pont de Nemours, E. I., and Company. 2-Aminomethyl-2-adamantanol. 3,697,593, 10-10-72, Cl. 260-563.00p.

Berezovsky, Pavel Iosipovich: *See—*
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Berg, Anthony David, to Bell Telephone Laboratories, Incorporated. Video signal processing. 3,697,682, 10-10-72, Cl. 178-6.800.
Berg, Arthur A.; and Klimek, Boleslaw, to Berg Manufacturing Company, The, mesne. Roll diaphragm brake. 3,696,711, 10-10-72, Cl. 92-48.000.
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Berg, Lawrance F., to Caterpillar Tractor Company. Hydraulic jack stroke cushioning means. 3,704,650, 12-5-72, Cl. 91-395.000.
Berg, Lloyd; and Jarrett, James H., to United States of America, Interior. Preparation of caronic acid from delta-3-carene. 3,637,823, 1-25-72, Cl. 260-514.
Berg, Lorne D.; and Rymes, John E., to Mannix Co., Ltd. Curving chute apparatus and method for positioning railroad ties. 3,683,816, 8-15-72, Cl. 104-6.000.
Berg, Louis L., to Creative Tool Company. High energy impact wrench assembly. 3,675,515, 7-11-72, Cl. 81-121.000.
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Berg, Markus; Fries, Walter; and Kirstahler, Alfred, to Henkel & Cie G.m.b.H. Combinations of detergents with controlled foaming properties and washing agents containing them. 3,676,340, 7-11-72, Cl. 252-8.750.
Berg, Markus; Fries, Walter; and Lohr, Albrecht, to Henkel & Cie G.m.b.H. Washing agents containing a textile softener. 3,689,424, 9-5-72, Cl. 252-110.000.
Berg, Max H., to Berg, Peter, & Co., Inc. Collapsible carton. 3,670,948, 6-20-72, Cl. 229-33.000.
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Berg, Peter; and Linder, Bertil C., to Cartridge Television, Inc., mesne. Rotary head assembly for tape transport with amplifier carried by the rotor. 3,673,349, 6-27-72, Cl. 179-100.20t.
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Berg, Quentin. Terminal tab strip and applicator. 3,669,332, 6-13-72, Cl. 227-80.000.
Berg, Quentin; and Kendall, Jerry A., to Berg Electronics, Inc. Blanking device for ribbon cable. 3,677,116, 7-18-72, Cl. 83-55.000.
Berg, Ralph I., to GAF Corporation. Two lamp light comparison type densitometer. 3,653,772, 4-4-72, Cl. 356-205.
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Berg, Robert H. Method of mounting disks in glass walls, heat working only once. 3,672,858, 6-27-72, Cl. 65-43.000.
Berg, Robert H. Average volume digital computer and digital volume totalizer for cells and particles. 3,699,319, 10-17-72, Cl. 235-151.340.
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Berg, Vernon R., Jr.: *See—*
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Berg, Vernon R., Sr.; and Berg, Vernon R., Jr. Barn ventilator. 3,691,928, 9-19-72, Cl. 98-33.000.
Bergamini, Giorgio. Force-balance pneumatic regulator with resilient cross fulcrum, having high sensibility and precision and easy, continuous gain regulation. 3,682,048, 8-8-72, Cl. 92-37.000.
Bergan, Philipp D. System of domes for use in molding concrete slabs. 3,638,902, 2-1-72, Cl. 249-28.
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Berge, C. Frederick: *See—*
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Berge, Jacques Marie Albert Charles. Device for continuous filtering of cheese curd, in particular curdled milk. 3,691,633, 9-19-72, Cl. 31-46.000.
Berge, Ralph I.; Young, James L.; and Ulmer, Arnold G., to GAF Corporation. Contact printing apparatus. 3,684,373, 8-15-72, Cl. 355-111.000.
Bergem, Normann; Blindheim, Ulf; Onsager, Olav-Torgeir; and Wang, Hagbarth, to Sentralinstitutt for Industriell Forskning. Process for the production of C_5-C_8 olefines. 3,652,687, 3-28-72, Cl. 260-683.15.
Bergemann, Gerald T.; and Dulaney, Ernest N., to Collins Radio Company. Method and means for measuring weighted noise in a communication link. 3,639,703, 2-1-72, Cl. 170-175.3.
Bergemann, Werner E.; Hunkeler, Ernst J.; and Pedersen, Harry, to Gleason Works, The. Machine for shaping gears. 3,659,496, 5-2-72, Cl. 90-8.
Bergendahl, Hans-Georg. Segmented roller briquette press with cooled mounting rings. 3,635,637, 1-18-72, Cl. 425-363.
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Berger, Abe, to General Electric Company. Method for producing silylalkyl mercaptans with silicon hydride groups. 3,632,826, 1-4-72, Cl. 260-448.2.
Berger, Abe, to General Electric Company. Silyl-containing dithiocarbamates with functional groups on sulfuralkyl ester side chain. 3,642,855, 2-15-72, Cl. 260-448.8.
Berger, Abe, to General Electric Company. Process for producing organosilicon compounds with isothiocyanate substituent bonded through divalent bridge. 3,646,089, 2-29-72, Cl. 260-448.2.
Berger, Abe, to General Electric Company. Cyanoalkyl (organofunctional) silicon compounds. 3,646,091, 2-29-72, Cl. 260-448.2.

Berger, Abe, to General Electric Company. Organofunctional-silicon materials. 3,654,332, 4-4-72, Cl. 260-448.2.
Berger, Abe; and Jaleel, Jalal S., to General Electric Company. Cyanoalkylesteralkylsilanes, amino-alkylesteralkylsilanes, polysiloxanes, and polishes formed therefrom. 3,668,229, 6-6-72, Cl. 260-448.80r.
Berger, Abe, to General Electric Company. Functional group containing thioether silanes. 3,678,089, 7-18-72, Cl. 260-448.20n.
Berger, Abe, to General Electric Company. Method of producing alkoxy-substituted mercaptoalkyl silanes. 3,692,812, 9-19-72, Cl. 260-448.20e.
Berger, Abe; and Selin, Terry G., to General Electric Company. Silicone compounds containing hydrazone functional groups thereon. 3,700,711, 10-24-72, Cl. 260-448.80r.
Berger, Abe, to General Electric Company. Polyaminoalkylthioalkyl silanes. 3,700,715, 10-24-72, Cl. 260-448.80r.
Berger, Abe; and Selin, Terry G., to General Electric Company. Amino-functional silane compounds. 3,700,716, 10-24-72, Cl. 260-448.20n.
Berger, Abe; and Lewis, Frederick M., to General Electric Company. Preparation of silicon hydrides. 3,704,261, 11-28-72, Cl. 260-448.0ze.
Berger, Alan; and Schneider, Alfred L., Jr., to Ethicon, Inc., mesne. Suture package. 3,648,949, 3-14-72, Cl. 242-159.
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Berger, Alfred; Abel, Heinz; and Deflorin, Alberto, to Ciba-Geigy AG. Process for finishing wool. 3,681,128, 8-1-72, Cl. 117-141.000.
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Berger, Horst H.; and Wiedmann, Sigfried K., to International Business Machines Corporation. Monolithic semiconductor memory. 3,643,235, 2-15-72, Cl. 340-173.
Berger, James E. Fluid proportioner means. 3,677,296, 7-18-72, Cl. 137-606.000.
Berger, James K.; and Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Power supply dual output. 3,660,672, 5-2-72, Cl. 307-17.
Berger, James K., to Pioneer Magnetics, Inc. Pulse generating transformer circuit. 3,660,685, 5-2-72, Cl. 307-260.
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Berger, James K., to Pioneer Magnetics, Inc. Regulated DC-DC power supply. 3,697,854, 10-10-72, Cl. 321-2.000.
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Berger, Leonard; Fitzpatrick, William E.; McGinley, James H.; Pfund, Adolf; and Schwartzberg, Ira G., to International Playtex Corporation. Bag holder and expander unit. 3,672,122, 6-27-72, Cl. 53-384.000.
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Berger, Richard M.; and Brooks, Elwin W., to American Filtrona Corporation. Method of making filter means by crimping and over-wrapping a tubular element. 3,637,447, 1-25-72, Cl. 156-180.
Berger, Richard M.; and Brooks, Elwin W., to American Filtrona Corporation. Tobacco smoke filter. 3,648,711, 3-14-72, Cl. 131-265.
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Miller, Eugene J., Jr.; Mais, Ago; Berenschot, Donald J.; and Berger, Robert L., 3,694,409.
Berger, Victor M. Fire safety device for electric cooking unit. 3,665,914, 5-30-72, Cl. 126-41.00r.
Berger, William L. Apparatus for handling a container of parts. 3,702,660, 11-14-72, Cl. 214-1.0qe.
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Bergero, Ramon, to BSR Optronics Corporation. Electro-mechanical color reproduction system. 3,651,246, 3-21-72, Cl. 178-5.2.
Bergeron, Frank E.; deceased (by Bergeron, Katharine S.; executrix). Anti-seize lubricating compound. 3,652,414, 3-28-72, Cl. 252-19.
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Bergeron, Zoel; and Vadeboncoeur, Leo, to Bombardier Limited. Sheave drive. 3,661,022, 5-9-72, Cl. 74-230.17.
Berges, David A.; Dunn, George L.; and Hoover, John R. E., to Smith Kline & French Laboratories. Esters of man deloylaminocephalosporanic acids. 3,701,775, 10-31-72, Cl. 260-243.00c.
Berges, Dietrich, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. High-speed wire stranding machine. 3,636,692, 1-25-72, Cl. 57-58.3.
Berges, Wilhelm. Friction lining for brakes, clutches and like apparatus. 3,698,526, 10-17-72, Cl. 192-107.00m.
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Bergey, John M.; Le Van, James O.; Walton, Richard S.; and Brethauer, Louis G., to Hamilton Watch Company. Electronic watch. 3,676,993, 7-18-72, Cl. 58-23.000.
Bergey, John M.; Blouch, Eric L.; and Walton, Richard S., to Hamilton Watch Company. Solid state timepiece with liquid crystal display. 3,701,249, 10-31-72, Cl. 58-50.00r.
Bergey, John M. K.; and Kalatucka, Stephen, to United States of America, Navy. Alerting system. 3,680,046, 7-25-72, Cl. 340-146.200.
Bergfelt, Nils H.: *See—*
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Berggren, Albin F., Jr.: *See—*
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Bergh, Arpad Albert; and Paola, Carl Ralph, to Bell Telephone Laboratories, Incorporated. Horizontal liquid phase crystal growth apparatus. 3,665,888, 5-30-72, Cl. 118-58.000.
Bergh, Arpad Albert; Paola, Carl Ralph; and Saul, Robert H., to Bell Telephone Laboratories, Incorporated. Semiconductor epitaxial growth from solution. 3,690,965, 9-12-72, Cl. 148-172.000.
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Bergh, George G.; and Bergh, Robert G., 3,675,842.
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Berghausen, Philip E.; Dehner, Gareth A.; and Morgan, John M., Jr., to Cincinnati Milacron Inc. Method and device for detecting contact between tool and workpiece of an ECM apparatus. 3,650,923, 3-21-72, Cl. 204-143.
Berghezan, Aurel I., to Cabot Corporation, mesne. Method for producing composite article. 3,690,961, 9-12-72, Cl. 148-11.50f.
Berghof, Ernest H., to Anna Welding Corporation. Method and apparatus for underwater arc welding. 3,632,950, 1-4-72, Cl. 219-72.
Bergholm, Carl Arne: *See—*
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Bergholtz, Niels Rudolf, to AB Ludvig Svensson. Method for treating textile material with a circulating liquid. 3,650,676, 3-21-72, Cl. 8-155.1.
Bergin, Michael T.; and Bartolotta, Charles S., to Grumman Aerospace Corporation. Multi-axis optical alignment system including a spatial filter. 3,701,602, 10-31-72, Cl. 356-152.000.
Bergin, William P., to Honeywell Inc. Analog to digital converter. 3,701,145, 10-24-72, Cl. 340-347.0nt.
Bergische Stahl-Industries: *See—*
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Bergland, Glenn D.; and Wilson, Donald E., to Bell Telephone Laboratories, Incorporated. Global highly parallel fast fourier transform processor. 3,662,161, 5-9-72, Cl. 235-156.
Bergles, Joseph L.; and Nelson, Marvin A. Sewage treatment plant and method of treating sewage. 3,681,236, 8-1-72, Cl. 210-16.000.
Bergling, Charles; and Birger, Gunnar, to Ingenjorsfirma Hebe AB. Conveyor belt for sheet-metal. 3,685,634, 8-22-72, Cl. 198-41.000.
Berglund, Bengt Gunnar: *See—*
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Berglund, Carl Neil; and Nicollian, Edward Haig, to Bell Telephone Laboratories, Incorporated. Metal-insulator-metal solid state rectifier. 3,648,122, 3-7-72, Cl. 317-234.
Berglund, Carl Neil; and Boll, Harry Joseph, to Bell Telephone Laboratories, Incorporated. Monolithic semiconductor apparatus adapted for sequential charge transfer. 3,660,697, 5-2-72, Cl. 307-304.
Berglund, Harold A.; and Thomas, David F., to Waterous Company. Ice cream pump. 3,697,197, 10-10-72, Cl. 417-360.000.
Berglund, Kurt K. H. A.: *See—*
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Berglund, Neil C.; King, Robert W.; and Swearingen, Kent W., to International Business Machines Corporation. Printing control device in high speed chain printer with hammers movable to plural print positions. 3,672,297, 6-27-72, Cl. 101-93.00c.
Berglund, Neil C., to International Business Machines Corporation. Chain printer hammer control. 3,680,480, 8-1-72, Cl. 101-93.00c.
Berglund, Neil C.; and Petricka, Gerald H., to International Business Machines Corporation. Hammer control for chain printer. 3,691,947, 9-19-72, Cl. 101-93.00c.
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Bergly, Richard N.; and Gilligan, Patrick J., to Pako Corporation. Photographic processing apparatus. 3,658,223, 4-25-72, Cl. 226-33.
Bergman, Gustav Albert: *See—*
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Bergman, Imanuel, to National Research Development Corporation. Membrane electrodes and cells. 3,668,101, 6-6-72, Cl. 204-195.
Bergman, John George, Jr.; and McFee, James Hoffman, to Bell Telephone Laboratories, Incorporated. Nonlinear devices. 3,665,206, 5-23-72, Cl. 307-88.300.
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Bergman, Robert N. Combination toasting and buttering apparatus. 3,670,642, 6-20-72, Cl. 99-329.0rt.
Bergman, Sylvester; and Dawson, Ross R., to Dow Chemical Company, The. Process for dyeing textile materials from organic solvent media. 3,667,898, 6-6-72, Cl. 8-94.
Bergmanis, Karlis Alfredovich; Klotinsh, Erik Ernestovich; and Matis, Imant Gustovich. Device for measuring permittivity of materials. 3,671,857, 6-20-72, Cl. 324-61.0qs.
Bergmanis, Karlis Alfredovich; Klotinish, Erik Ernestovich; and Matis, Imant Gustovich. Device for measuring permittivity of materials. 3,694,742, 9-26-72, Cl. 324-61.0qs.
Bergmann, Elliot: *See—*
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Bergmann, Eugen O.; and Cook, Robert L. Suspension for track-laying vehicles. 3,658,145, 4-25-72, Cl. 180-5.
Bergmann, Ewald; and Bareis, Alfred, to Schuler, L., GmbH. Roll feed for strip-or-band-shaped work-pieces, especially at quick-motion presses. 3,696,983, 10-10-72, Cl. 226-141.000.
Bergmann, Gerhard, to Hoesch-Chemie G.m.b.H. Process for finishing cellulosic textile materials with n-methylol compounds. 3,650,671, 3-21-72, Cl. 8-116.3.
Bergmann, Hermann Gustav Adolf, to Libu Shovel Co., A.G. Coupling or locking means. 3,669,481, 6-13-72, Cl. 292-49.000.

Bergmann, Karl Heinz, to Deutsche Fernsprecher Gesellschaft mbH. Adjustable relay contact. 3,705,966, 12-12-72, Cl. 200-166.00m.
Bergmann, Michael J., to Du Pont de Nemours, E. I., and Company. Capacitor assembly having electrode and dielectric layers overlapped for sealing. 3,679,943, 7-25-72, Cl. 317-230.000.
Bergmann, Paul F., to Johnson Products, Inc. Tappet for overhead camshaft engine. 3,658,038, 4-25-72, Cl. 123-90.27.
Bergmann, Wilfried H. Method and means for charging or discharging superconducting windings. 3,667,029, 5-30-72, Cl. 323-8.000.
Bergmann, Wilhelm: *See*—
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Bergmans, Hendrik Jan, to U.S. Philips Corporation. Integrated Hall-effect device. 3,667,000, 5-30-72, Cl. 317-235.00r.
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Bergmeister, Eduard; Lieb, Erwin; Schmidtkonz, Christian; and Wiest, Hubert, to Wacker-Chemie G.m.b.H. Process for manufacturing polyvinyl ester dispersions. 3,654,209, 4-4-72, Cl. 260-29.6.
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Bergmeyer, Hans Ulrich; Gruber, Wolfgang; Moellering, Hans; and Thum, Waldemar, to Boehringer Mannheim G.m.b.H. Recovery of glucose oxidase. 3,645,851, 2-29-72, Cl. 195-66.
Bergmeyer, Hans Ulrich; and Mollering, Hans. Fractionation of proteins. 3,657,071, 4-18-72, Cl. 195-66.
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Bergner, Siegfried, to Paweck AG. Apparatus for the cold-bending of pipes. 3,667,269, 6-6-72, Cl. 72-166.000.
Bergomi, Joseph G., Jr.; Dill, Dale R.; and Graham, Paul R., to Monsanto Company. Resin blend containing ethylene/vinyl chloride interpolymer. 3,665,060, 5-23-72, Cl. 260-897.00c.
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Bergquist, Dwight H., to Henningsen Foods, Inc. Spray dryer air flow control. 3,648,753, 3-14-72, Cl. 159-4.
Bergquist, Nils R.; and Skoldenfelt, Sven H. Test glass holder. 3,682,323, 8-8-72, Cl. 211-74.000.
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Bergqvist, Erik Arne, to Aktiebolaget Bofors. Device for neutralizing temperature dependent gain variations in an optically pumped laser rod. 3,689,850, 9-5-72, Cl. 331-94.500.
Bergqvist, Mats Soren; Kallstrom, Olof Krister; Lagerberg, Per Goran Olof; and Okvist, Nils Axel Gunnar, to Sandvikens Jernverks Aktiebolag. Method for manufacturing zirconium alloys and alloys manufactured according to the method. 3,664,825, 5-23-72, Cl. 5-10.000.
Bergsland, Joh. Coasting device. 3,705,730, 12-12-72, Cl. 280-24.000.
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Bergstedt, Karl Abdon, to AB Volvo Penta. Tilting and trimming arrangement for a tiltable outboard propeller housing for a boat. 3,653,270, 4-4-72, Cl. 74-89.15.
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Bergstrand, Karl Gunnar, to Essem Metotest AB. System for the magnetic non-destructive testing of materials for long and short defects. 3,694,740, 9-26-72, Cl. 324-37.000.
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Bergstrom, Lennart S. E., to Siemens Aktiengesellschaft. Device for stacking film sheets. 3,633,479, 1-11-72, Cl. 95-19.
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Bergstrom, Ralph E., to Whiting Corporation. Method of producing wet process phosphoric acid. 3,666,413, 5-30-72, Cl. 23-165.
Bergstrom, Sune; and Sjovall, Jan. PGE2 methyl ester and PGE2 methyl ester diacetate. 3,691,216, 9-12-72, Cl. 260-408.00r.
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Bergum, Bernard C., to ESB Incorporated. Method for cycling battery electrodes in bulk. 3,644,146, 2-22-72, Cl. 136-76.
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Bergum, Bernard C.; and Kenyon, Kenneth H., to ESB Incorporated. Multicell battery having double adhesive, liquid sealing window. 3,674,565, 7-4-72, Cl. 136-111.000.
Bergum, Bernard C.; Bilhorn, John M.; Kenyon, Kenneth H.; Macaulay, William R.; and Youngquist, John A., to ESB Incorporated. Method of assembling multicell batteries comprising duplex electrode construction using continuous electrically conductive plastic-carrier strip. 3,694,266, 9-26-72, Cl. 136-111.000.
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Bergwerk, Walter, to Imperial Chemical Industries Limited. Drawing synthetic thermoplastic yarn. 3,681,826, 8-8-72, Cl. 28-59.500.
Bergwerksverband GmbH: *See*—
Jankowski, Alfons; Glaesmann, Otto-Ernst; and Haake, Gerhard, 3,698,196.
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Rieschel, Hans; and Jacobi, Oskar, 3,638,531.
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Bergy, Malcolm E.; and De Boer, Clarence, to Upjohn Company, The. Antibiotic garlandosus and process for preparing the same. 3,642,984, 2-15-72, Cl. 424-117.
Bergy, Malcolm E.; Herr, Ross R.; and Mason, Donald Joseph. Lincomycin and tetracycline compositions. 3,642,987, 2-15-72, Cl. 424-181.
Bergy, Malcolm E.; Hoeksema, Herman; Johnson, LeRoy E.; and Kinch, Donald G., to Upjohn Company, The. Antibiotic ingramycin and process for preparing the same. 3,651,219, 3-21-72, Cl. 424-422.
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Bergy, Malcolm E.; Coats, John H.; and Reusser, Fritz. Antibiotic berninamycin and process for making same. 3,689,639, 9-5-72, Cl. 424-117.000.
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Berka, Bohdan Jiri. Signalling system for bore logging. 3,697,940, 10-10-72, Cl. 340-18.00r.

Berkebile, Lee E. Gas-blast circuit interrupter with primary and secondary blast valves. 3,686,454, 8-22-72, Cl. 200-148.00r.
Berkel G.m.b.H.: *See—*
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Berkeley, Arnold D.; Bold, Eugene W.; Jefferson, Donald E.; and Zeller, Gerard A., to Computer Retrieval Systems, Inc. Data processing system. 3,701,972, 10-31-72, Cl. 340-172.500.
Berkeley Bio-Engineering, Inc.: *See—*
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Kemp, Gordon Arthur; Bachmann, Howard John; Berkelhammer, Gerald; and Asato, Goro, 3,655,890.
Berkelhammer, Gerald; and Gund, Peter Herman, to American Cyanamid Company. 2-(Heterocyclic substituted) quinoxaline-1,4-dioxides. 3,660,401, 5-2-72, Cl. 260-250.
Berkelhammer, Gerald; and Asato, Goro. Substituted nitroimidazolylthiazoles and oxadiazoles an antiprotozoal agents. 3,666,860, 5-30-72, Cl. 424-270.
Berkelhammer, Gerald; Asato, Goro; and Moon, Edward Leslie, to American Cyanamid Company. Novel 2,5-disubstituted thiazole carboxaldehyde and derivatives of the same. 3,674,780, 7-4-72, Cl. 260-240.00g.
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Flieder, Robert A.; and Averett, Sumner S., 3,649,913.
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Berkley, David Arthur; Mitchell, Olga Mary Mracek; and Pierce, John Robinson, to Bell Telephone Laboratories, Incorporated. Speech processor using multiband controlled center clipping. 3,699,271, 10-17-72, Cl. 179-170.800.
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Berkling, Klaus Juergen, to International Business Machines Corporation. Computer. 3,646,523, 2-29-72, Cl. 340-172.5.
Berkman, John W.; and Gravell, Lawrence R., to International Business Machines Corporation. Punch mechanism. 3,659,779, 5-2-72, Cl. 234-114.
Berkman, Richard M.; and Schoefer, Peter B., to Science Spectrum Inc. Sample scattering cell for a photometer. 3,701,620, 10-31-72, Cl. 356-246.000.
Berkman, Stephen A. Mechanical transfer teaching system with universal mountings. 3,704,527, 12-5-72, Cl. 35-13.000.
Berkovits, Barouh V., to American Optical Corporation. Safe rate pacer. 3,635,224, 1-18-72, Cl. 128-419.
Berkovits, Barouh V., to American Optical Corporation. Atrio-ventricular pacer with atrial stimulii discrimination. 3,661,158, 5-9-72, Cl. 128-419.
Berkovits, Barouh V., to American Optical Corporation. Rate discriminatory electrocardio-graphic monitoring system. 3,674,015, 7-4-72, Cl. 128-2.06f.
Berkovits, Barouh V., to American Optical Corporation. Stimulator for treatment of tachycardia with a burst of stimuli having a continuously variable rate. 3,693,627, 9-26-72, Cl. 128-419.00p.
Berkovits, Rarouh V., to American Optical Corporation. Rate-scanning pacer for treatment of tachycardia. 3,698,398, 10-17-72, Cl. 128-422.000.
Berkovitz, Harry, to Westinghouse Electric Corporation. Duplex counterweightless shuttle elevator system. 3,651,893, 3-28-72, Cl. 187-94.
Berkowitz, Howard. Surgical instrument holder. 3,654,047, 4-4-72, Cl. 161-7.
Berkowitz, Irving L., to Kason Hardware Corporation. Refrigerator wall panels with panel fasteners and apparatus for making said panels. 3,671,006, 6-20-72, Cl. 249-97.000.
Berkowitz, Lawrence; Novickis, Georgs; and Sheth, Prafulchandra N., to Dickson Paper Fibre, Inc., mesne. Trash separating apparatus and method. 3,643,797, 2-22-72, Cl. 209-2.
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Berks, William I.; and Smith, Webster D., to TRW Inc. Adjustable rail fastener design with tapered key and channel members. 3,662,952, 5-16-72, Cl. 238-310.
Berkstresser, William E., to Web Mercantile Corporation. Pendant for flea prevention and pendant for flea compound. 3,687,114, 8-29-72, Cl. 119-106.000.
Berkus, Clyde C., 50% to Diversified Designs Services. Vent unit. 3,654,850, 4-11-72, Cl. 98-61.000.
Berky, Richard K.; and Rickel, Edgar J., to Richel, Inc. Hydraulic dump box. 3,633,971, 1-11-72, Cl. 298-10.
Berle, Axel Gunnar; Nilsson, Lars Gunnar; and Olofsson, Hans Kristoffer, to Atlas Copco Aktiebolag. Control device for a motor-compressor. 3,689,197, 9-5-72, Cl. 417-18.000.
Berlenbach, Bernard E., to Ski Free Company. Ski boot heel binding. 3,643,977, 2-22-72, Cl. 280-11.35.
Berler, Robert M., to Pitney Bowes-Alpex, Inc. Hand held photo-optical reader for printed documents. 3,673,416, 6-27-72, Cl. 250-219.0dc.
Berler, Robert M., to Pitney Bowes-Alpex, Inc. Photoelectric manual reader for printed coded tags. 3,685,723, 8-22-72, Cl. 235-61.11e.
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Berleyoung, Walter J., to Robertshaw Controls Company. Sonic welding apparatus having fluid action aligning means. 3,649,421, 3-14-72, Cl. 156-580.
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Berlin, Aaron S.; Little, Vincent C.; and Leadore, Toney, to United States of America, Army. Primer retainer bushing. 3,690,258, 9-12-72, Cl. 102-70.00r.
Berlin, Aaron S.; and Little, Vincent C., to United States of America, Army. Push button munition. 3,705,551, 12-12-72, Cl. 102-64.000.
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Berlincourt, Don A.; and Pim, Kendall A., to Vernitron Corporation. Multi-element piezoelectric circuit component. 3,676,724, 7-11-72, Cl. 310-8.200.
Berlincourt, Don A., to Vernitron Corporation, mesne. Width extensional resonator and coupled mode filter. 3,699,484, 10-17-72, Cl. 333-72.000.
Berliner, Julius F. T., to M. D. Industries, Inc. Two water soluble films connected to each side of a water impervious synthetic membrane. 3,661,695, 5-9-72, Cl. 161-151.000.
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Berlyn, Martin John. Air compressors. 3,704,079, 11-28-72, Cl. 417-438.000.
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Berman, Elliot; Maher, Robert H.; and Manhardt, John R., to Itek Corporation. Photographic process for producing relief images by extended physical development. 3,634,083, 1-11-72, Cl. 96-36.3.

Berman, Elliot; McLeod, Gerald L.; Pian, Charles H. C.; Stein, Samuel H.; and Pian, Juliette F., to Itek Corporation. Photochemical figuring of optical elements. 3,658,528, 4-25-72, Cl. 96-35.100.

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Berman, Harold, to Norton-Norwich Products, Inc. Process for preparing 2-(diethylamino)ethyl tetrahydro-α-(1-naphthylmethyl)-2-furanpropionate. 3,661,934, 5-9-72, Cl. 260-347.5.

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Berman, Irwin, to Foster Wheeler Corporation. Multi-layer pressure vessel. 3,647,103, 3-7-72, Cl. 220-3.

Berman, Irwin, to Foster Wheeler Corporation. Pressure vessel. 3,648,876, 3-14-72, Cl. 220-3.

Berman, Max; and Bowen, Gary W., to General Electric Company. Noise error correcting and excessive noise rejecting system. 3,701,102, 10-24-72, Cl. 340-168.00r.

Berman, Paul A., to Westinghouse Electric Corporation. Lubricating oil system for a prime mover. 3,658,153, 4-25-72, Cl. 184-6.3.

Berman, Paul A., to Westinghouse Electric Corporation. Fuel pump system for gas turbines. 3,696,612, 10-10-72, Cl. 60-39.140.

Berman, Richard M.; Schwartz, Bernard; and Bethke, Lyman W., to Alphamedics Mfg. Corporation. Multichannel interval timer. 3,636,549, 1-18-72, Cl. 340-309.1.

Bermel, Thomas W., to Corning Glass Works. Vortex generating sensor. 3,641,809, 2-15-72, Cl. 73-37.5.

Bermes, Rudolf: *See—*
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Bernaerts, Henry J., to United States of America, Navy. Propeller with after-collision propulsion capability. 3,703,211, 11-21-72, Cl. 115-34.00r.

Bernales, Benjamin C., to Westinghouse Electric Corporation. Rotor blade structure. 3,702,222, 11-7-72, Cl. 416-212.000.

Bernard, Arthur A.; and Bernard, Richard A., to Dover Corporation, mesne. Arc welding gun. 3,676,640, 7-11-72, Cl. 219-130.000.

Bernard, Claude. Device for portioning and titrating liquid samples. 3,652,228, 3-28-72, Cl. 23-253.

Bernard, David L.; Backus, John K.; and Darr, William C., to Mobay Chemical Company. Flame-resistant, non-bursting polyisocyanurate foams. 3,644,232, 2-22-72, Cl. 260-2.5.

Bernard, David L.; and Doheny, Anthony J., Jr., to Baychem Corporation, mesne. Polycarbodiimide-polyisocyanurate foam. 3,657,161, 4-18-72, Cl. 260-2.5.

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Bernard, Georges; and Scole, Adrien, to Merlin Gerin. Alternating current circuit interrupting system comprising a rectifier shunt path. 3,633,069, 1-4-72, Cl. 317-11.

Bernard, Henri Gabriel. Electric connector device. 3,701,087, 10-24-72, Cl. 339-198.00g.

Bernard, James A., to General Motors Corporation. Retaining devices. 3,662,642, 5-16-72, Cl. 85-8.800.

Bernard, Jean Andre; and Faraoni, Adamo Renato, to European Atomic Energy Community (Euratom). Method of producing a sealing-tight joint between two tubes on different materials. 3,691,614, 9-19-72, Cl. 29-470.500.

Bernard, Jean Claude; and Pascal, Pierre, to Naphtachimie. Heat stable polypropylene-asbestos molding composition. 3,649,592, 3-14-72, Cl. 260-41.

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Bernardi, Luigi; Bosisio, Germano; and Temperilli, Aldemio, to Societa' Farmaceutici Italia. Process for the preparation of lumilysergic acid derivatives. 3,647,655, 3-7-72, Cl. 204-158.

Bernardi, Luigi; Coda, Severina; Suchowsky, Giselbert Karl; and Pegrassi, Lorenzo, to Societa Farmaceutici Italia. 1,3-Benzoxazine derivatives. 3,658,803, 4-25-72, Cl. 260-244.

Bernardi, Luigi; Bonsignori, Alberto; Coda, Severina; and Suchowsky, Giselbert Karl, to Societa Farmaceutici Italia. Benzene-ring-substituted tetra-hydro-quinazolines. 3,660,322, 5-2-72, Cl. 260-251.

Bernardi, Luigi; Bosisio, Germano; De Castiglione, Roberto; and Goffredo, Onofrio, to Societa' Farmaceutici Italia. Peptides related to the C-terminal sequence of CCK-PZ and caerulein. 3,705,140, 12-5-72, Cl. 260-112.500.

Bernardin, Leo J., to Kimberly-Clark Corporation. Absorbent fiber products from phosphorylated cellulose fibers and process therefor. 3,658,790, 4-25-72, Cl. 260-219.

Bernardin, Leo J., to Kimberly-Clark Corporation. Absorbent fibers of phosphorylated cellulose with ion exchange properties. 3,691,154, 9-12-72, Cl. 260-219.000.

Bernardin, Rodney A., to United States of America, Navy. Dual mode fuze explosive train. 3,633,510, 1-11-72, Cl. 102-74.

Bernardo, Joseph J.: *See—*
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Bernath, Louis; and Facha, Joseph V., to North American Rockwell Corporation. Articulated fuel element housing. 3,671,394, 6-20-72, Cl. 176-79.000.

Bernatschek, Adolf Oswald. Braking shuttle box. 3,696,844, 10-10-72, Cl. 139-186.000.

Bernatt, Joseph; and Gutmann, John T., to S & S Electric Company. Polyphase disconnecting switch for high voltage circuit having a conductor at each apex of a triangle. 3,647,996, 3-7-72, Cl. 200-48.

Bernbach, Jeffrey M. Child restraining gate for automobiles. 3,652,120, 3-28-72, Cl. 296-24.

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Berndt, Hans Detlef; and Wiechert, Rudolf, to Schering A.G. Process for making Δ^5 (10)-estrenes or pregnenes and products obtained thereby. 3,700,670, 10-24-72, Cl. 260-239.55r.

Berndt, Hans-Detlef: *See—*
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Berneryd, Sten; and Backskog, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Operating device for electric switching apparatus for high voltage. 3,699,289, 10-17-72, Cl. 200-148.00r.

Bernett, Frank E.; and Kleinhans, Robert J., to Tile Council of America, Inc. Grouting composition. 3,706,696, 12-19-72, Cl. 260-29.70e.

Bernetti, Raffaele; and Holty, David W., to CPC International Inc. 2,5-Oxazolidinedione derivatives of S-oxidized sulfur-containing amino acids. 3,644,390, 2-22-72, Cl. 260-307.

Bernewasser, Horst, to Kochs Adler AG. Apparatus for trimming and clipping the edges of textile fabric cuts. 3,696,765, 10-10-72, Cl. 112-121.120.

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Bernfeld, Isabel M., to Berger Brothers Company, The. Prosthetic brassiere for use after surgical breast removal. 3,651,522, 3-28-72, Cl. 3-36.

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Bernhardt, Gunther; Buning, Robert; and Trautvetter, Werner, to Dynamit Nobel Aktiengesellschaft. Metal-coated thermoplastic article. 3,692,502, 9-19-72, Cl. 29-195.000.
Bernhardt, Heinz Lamm, to Daimler-Benz Aktiengesellschaft. Mixture-compressing rotary piston internal combustion engine of trochoidal construction. 3,688,748, 9-5-72, Cl. 123-8.090.
Bernhardt, Jost; and Bohle, Friedrich, to Bernhardt Apparatebau GmbH & Co. Device for opening the protective cover of an inflatable body. 3,685,069, 8-22-72, Cl. 9-316.000.
Bernhart, Donald N., to Stauffer Chemical Company. Process for preparing organic thiols from polysulfides. 3,686,329, 8-22-72, Cl. 260-609.00r.
Bernhart, Finn W., to American Home Products Corporation. Humanized fat compositions and infant formulas thereof. 3,649,295, 3-14-72, Cl. 99-57.
Bernheim, Erwin: *See—*
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Bernheimer, Ralph, to Esso Research and Engineering Company. Purification of a hydrocarbon stream with Cr^{+++} ions in solution. 3,666,660, 5-30-72, Cl. 208-243.
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Matthews, Ralph W.; Bernhoft, Gerald W.; and Schmidt, Michael R., 3,670,823.
Bernhold, Edward B., to Bell & Howell Company. Autmatic speed control for movie projector. 3,700,315, 10-24-72, Cl. 352-17.000.
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Berni, Ralph J.; Benerito, Ruth R.; McKelvey, John B.; Ward, Truman L.; and Soignet, Donald M., to United States of America, Agriculture. Preparation of diethylaminoethyl-cotton using nonaqueous solvents. 3,644,082, 2-22-72, Cl. 8-116.2.
Berni, Rene P.; and Grifo, Richard A., to GAF Corporation. Detergency compositions containing a synergistic mixture of PVP and PVA. 3,689,435, 9-5-72, Cl. 252-524.000.
Bernier, Robert N.: *See—*
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Bernier, Robert N.; Blackmer, Dwight; and Paulsen, Paul L., to Wanskuck Company. Metal reel. 3,704,838, 12-5-72, Cl. 242-115.000.
Bernin, Victor M., to Illinois Tool Works Inc. Solid state keyboard. 3,638,221, 1-25-72, Cl. 340-365.
Bernin, Victor M., to Illinois Tool Works Inc. Flux gate switch. 3,638,222, 1-25-72, Cl. 340-365.
Bernin, Victor M., to Illinois Tool Works Inc. Solid state switch. 3,698,531, 10-17-72, Cl. 197-98.000.
Berning, Eugene B.; and Holmes, John E. Solenoid actuated valve for anhydrous ammonia flow meters. 3,698,682, 10-17-72, Cl. 251-30.000.
Berning, Rudolf, to Astor-Werk Otto Berning & Co., Firma. Button, in particular a cushion padding-button. 3,654,671, 4-11-72, Cl. 24-102.
Bernitz, Bernhard, to Continental Gummi-Werke Aktiengesellschaft. Bumper for motor vehicles. 3,669,484, 6-13-72, Cl. 293-71.00r.
Bernold, Jean P.; and Pfeiffer, Hans Walter. Prefabricated reinforced concrete plate shaped construction element. 3,696,577, 10-10-72, Cl. 52-583.000.
Bernot, Robert: *See—*
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Berns, Charles, to Edwards Company, Inc. D.C. vibrating horn. 3,656,156, 4-11-72, Cl. 340-388.
Berns, Charles, to Edwards Company, Inc. Alarm latching circuit. 3,706,087, 12-12-72, Cl. 340-213.00r.
Berns, Harald, to Sehlbach, Herbert, K.G., Firma. Suspension fitting for cargo safety straps. 3,685,778, 8-22-72, Cl. 248-361.00a.
Berns, Peter M.; and Simonoff, Ely, to Opelike Manufacturing Corporation. Display holder for unpackaged textile items. 3,650,442, 3-21-72, Cl. 223-87.
Bernstein, Arthur. Ice bank heat exchanger. 3,672,183, 6-27-72, Cl. 62-139.000.
Bernstein, Bernard, to General Instrument Corporation. Semiconductor assembly with heat sink and connector bodies. 3,638,073, 1-25-72, Cl. 317-100.
Bernstein, Bruce S.: *See—*
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Bernstein, Carl: *See—*
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Bernstein, Carl, to Witco Chemical Corporation. Method of preparing solid polyurethane elastomers. 3,645,975, 2-29-72, Cl. 260-75.
Bernstein, Edith; Garmaise, David Lyon; and Plotnikoff, Nicholas Peter, to Abbott Laboratories. 8-Fluoro-2-substituted-gamma-carboline. 3,687,960, 8-29-72, Cl. 260-295.00s.
Bernstein, Edith; Garmaise, David Lyon; and Plotnikoff, Nicholas Peter, to Abbott Laboratories. 8-Fluoro-2-(3-(4-fluorophenylanilino) porpyl)-gamma-carboline. 3,687,961, 8-29-72, Cl. 260-296.00a.
Bernstein, George J.: *See—*
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Narayanan, Venkatachala Lakshmi; and Bernstein, Jack, 3,646,067.
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Yale, Harry L.; and Bernstein, Jack, 3,657,275.
Bernstein, Jack; and Losee, Kathryn Alice, to Squibb, E. R., & Sons, Inc. Triiodinated diaminobenzoic acid derivatives. 3,660,464, 5-2-72, Cl. 260-470.000.
Bernstein, Jack; and Losee, Kathryn Alice, to Squibb, E. R., & Sons, Inc. 2,4,6-Triiodobenzoic acid derivatives. 3,660,466, 5-2-72, Cl. 260-471.00r.
Bernstein, Jack; and Losbe, Kathryn A., to Squibb, E. R., & Sons, Inc. Bis-thiiodoisophthalamic acid compounds. 3,660,469, 5-2-72, Cl. 260-501.110.
Bernstein, Jack; and Losee, Kathryn Alice, to Squibb, E. R., & Sons, Inc. Triiodated toluic acids. 3,666,799, 5-30-72, Cl. 260-518.00a.
Bernstein, Jack; and Losee, Kathryn Alice, to Squibb, E. R., & Sons, Inc. Substituted triiodoisophthalamic acids. 3,666,800, 5-30-72, Cl. 260-518.00a.
Bernstein, Jack; Diassi, Patrick Andrew; and Weisenborn, Frank Lee, to Squibb, E. R., & Sons, Inc. d-Ureido-2,4,6-cycloheptatrienylmethylpenicillins. 3,668,198, 6-6-72, Cl. 260-239.100.
Bernstein, Karl; and Walter, Earl Richard, to Safety Signaling, Inc., mesne. Remotely controlled switching system. 3,697,975, 10-10-72, Cl. 340-310.000.
Bernstein, Marvin, to United States of America, Army. Method of bonding quartz to metal. 3,657,076, 4-18-72, Cl. 204-16.
Bernstein, Robert J. Jam cleat. 3,677,214, 7-18-72, Cl. 114-218.000.
Bernstein, Robert J. Rotary piston engine. 3,707,073, 12-26-72, Cl. 60-15.000.
Bernstein, Seymour: *See—*
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Bernutat, Paul. Air separator. 3,682,302, 8-8-72, Cl. 209-139.00r.
Bernutz, Johannes; and Klivar, Erich, to International Standard Electric Corporation. Printed circuit board connector. 3,636,503, 1-18-72, Cl. 339-217.
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Beroff, Howard; and Richmond, Ernest L., to Ethicon, Inc. Apparatus for electropolishing of drilled surgical needles. 3,701,725, 10-31-72, Cl. 204-297.00m.
Beroff, Howard; and Richmond, Ernest L., to Ethicon, Inc. Electropolishing of drilled surgical needles. 3,703,452, 11-21-72, Cl. 204-129.100.
Berol Corporation, mesne: *See—*
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Berr, Charles E., to Du Pont de Nemours, E. I., and Company. Crystalline copolyketone film structures. 3,637,592, 1-25-72, Cl. 260-47.
Berrange, Aubrey Ralph, to South African Inventions Development Corporation. Impact compaction of loose materials. 3,662,658, 5-16-72, Cl. 94-48.
Berreman, Dwight W., to Bell Telephone Laboratories, Incorporated. Transparent membranes for gas lenses and light guidance system employing same. 3,652,150, 3-28-72, Cl. 350-179.

Berrer, Dagmar; and Fankhauser, Ernst, to Geigy, J. R., A.G. Process for controlling weeds in wheat fields. 3,634,062, 1-11-72, Cl. 71-93.

Berrie, Alistair Howard; and Hughes, Nigel, to Imperial Chemical Industries Limited. Process for colouring synthetic textile materials with monoazo dyestuff dispersions. 3,640,674, 2-8-72, Cl. 8-41.

Berrie, Alistair Howard; and Hughes, Nigel, to Imperial Chemical Industries Limited. Coloration process. 3,642,427, 2-15-72, Cl. 8-41.

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Berrie, Alistair Howard; and Hughes, Nigel, to Imperial Chemical Industries Limited. Mono azo dyestuffs containing a pyridyl group. 3,664,996, 5-23-72, Cl. 260-156.

Berrie, Robert W., to Omnico Systems International Inc. Prefabricated building construction with interfitting stud splines. 3,641,720, 2-15-72, Cl. 52-122.

Berriman, Lester P., to Dresser Industries, Inc., mesne. Fluid separation apparatus and method. 3,669,879, 6-13-72, Cl. 210-23.000.

Berrs, Raymond M., to Great Lakes Carbon Corporation. Filament break detector utilizing photoelectric means for detecting speed of supply spool. 3,633,835, 1-11-72, Cl. 242-36.

Berry, Alvin F., to General Electric Company. Aromatic superpolyester-styrene polymer melt stabilized composition. 3,647,921, 3-7-72, Cl. 260-873.

Berry, Clyde A., to Pilot Research Corporation. Panty hose. 3,696,444, 10-10-72, Cl. 2-224.00r.

Berry, Currie B., to Ethyl Corporation. Method of making a composite metal article. 3,703,763, 11-28-72, Cl. 29-503.000.

Berry, Currie B., Jr., to Ethyl Corporation. Foamed metal. 3,669,654, 6-13-72, Cl. 75-20.00f.

Berry, Currie B., Jr., to Ethyl Corporation. Foamed metal. 3,671,221, 6-20-72, Cl. 75-20.00f.

Berry, Currie B., Jr.; and Fanning, Robert J., to Ethyl Corporation. Foamed metal. 3,705,030, 12-5-72, Cl. 75-20.00f.

Berry, Daniel Victor; and Knott, Stanley Gerald Thomas, to Ingersoll Locks Limited. Locking bars. 3,638,460, 2-1-72, Cl. 70-52.

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Mueller, William J.; Berry, David A.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,634,352.

Sinclair, Richard G.; Berry, David A.; Schuller, Walter H.; and Lawrence, Ray V., 3,663,545.

Berry, David A.; and Gynn, Gilbert M., to Dart Industries Inc. Diallyl carbonate filled compositions. 3,644,242, 2-22-72, Cl. 260-17.4.

Berry, David A.; Bunk, Albert R.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., to United States of America, Agriculture. Hot-melt adhesive composition containing rosin polyester. 3,652,474, 3-28-72, Cl. 260-27.

Berry, David A.; Bunk, Albert R.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., to United States of America, Agriculture. Hot-melt adhesive composition containing hydrogenated pine gum. 3,658,739, 4-25-72, Cl. 260-24.

Berry, David A.; and Gynn, Gilbert M., to Dart Industries, Inc. Trisubstituted isocyanurates. 3,658,801, 4-25-72, Cl. 260-248.

Berry, David A.; and Gynn, Gilbert M., to Dart Industries Inc. Allyl carbonate and substituted allyl carbonate esters of 1,4-dimethylol cyclohexane, and polymers thereof. 3,679,727, 7-25-72, Cl. 260-463.

Berry, David A.; and Gynn, Gilbert M., to Dart Industries, Inc. Filled compositions containing 3,9-divinyl spirobi. 3,700,613, 10-24-72, Cl. 260-17.4cl.

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Berry, Foster W., to Brunswick Corporation. Bowling pin with cheek elements formed of wood particles and resin binder. 3,704,016, 11-28-72, Cl. 273-82.00r.

Berry, Francis Douglas; and Blyther, Stanley Charles, to LR Industries Limited. Apparatus for the autogenous bonding of contraceptive sheaths. 3,647,601, 3-7-72, Cl. 156-511.

Berry, Fred M., to Kustom Signal, Inc. Method and apparatus for digitally determining the speed of a moving object. 3,689,921, 9-5-72, Cl. 343-8.000.

Berry, Gordon, to Portec, Inc. Electrical machine frame. 3,705,994, 12-12-72, Cl. 310-91.000.

Berry, H. Lee. Suturing device. 3,638,653, 2-1-72, Cl. 128-340.

Berry, Hammond A., to Sheldon, E. H., and Company. Mobile cabinet. 3,685,851, 8-22-72, Cl. 280-43.220.

Berry, Harry E., 20% to Kerek, Richard, 20% to Kerek, John and 20% to De La Hunt, R. E. Beverage dispensing keg. 3,670,929, 6-20-72, Cl. 222-400.700.

Berry, Holland J.; Hardy, William C.; and Zadow, Dale W., to Sun Oil Company. Method and apparatus for igniting well heaters. 3,680,635, 8-1-72, Cl. 166-300.000.

Berry, Holland J.; Hardy, William C.; and Zadow, Dale W., to Sun Oil Company. Method and apparatus for ignition and heating of earth formations. 3,680,636, 8-1-72, Cl. 166-302.000.

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Berry, Jack; and Luo, Zong-Shyong, to Burroughs Corporation. Screw engaging device. 3,654,816, 4-11-72, Cl. 74-424.8.

Berry, Jack; and Templeton, William B., to Burroughs Corporation. Printer control system. 3,659,524, 5-2-72, Cl. 101-93.

Berry, James I., to Ford Motor Company. Vehicle speed synthesizer. 3,664,711, 5-23-72, Cl. 303-21.0be.

Berry, James I.; and Janiz, Zbigniew J., to Ford Motor Company. Electronic circuit for detecting and evaluating angular acceleration and deceleration of a rotary member. 3,668,524, 6-6-72, Cl. 324-162.

Berry, James I., to Ford Motor Company. Electronic sensor for developing a voltage signal proportional in magnitude to displacement. 3,698,250, 10-17-72, Cl. 73-517.000.

Berry, James M.; and Corpron, Gary P., to Teletype Corporation. Electrostatic printing composition comprising didodecyl sebacate. 3,653,932, 4-4-72, Cl. 106-22.

Berry, James W.: *See—*

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Berry, Norman H. Ignition circuit radiation suppression resistor. 3,680,029, 7-25-72, Cl. 338-334.000.

Berry, Norman H., to Whitakercable Corporation. High frequency shield for spark plug boot having suppression coil therein. 3,686,607, 8-22-72, Cl. 338-66.

Berry, Peter John, to Barr and Stroud, Limited. Stabilised optical systems. 3,698,790, 10-17-72, Cl. 350-16.000.

Berry, Robert E.; Bissett, Owen W.; Wagner, Charles J., Jr.; and Patterson, Eldridge P., to United States of America, Agriculture. Method of densifying food products. 3,672,909, 6-27-72, Cl. 99-1.000.

Berry, Ronald G. Hair cutting apparatus. 3,678,944, 7-25-72, Cl. 132-45.00r.

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Hoppin, George S., III; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,692,501.

Hoppin, George S., III; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,700,427.

Tarshis, Lemuel A.; Walker, James L.; and Berry, Thomas F., 3,696,500.

Berry, Thomas G., to Fairchild Hiller Corporation. Collapsible, extendible double tubular structure. 3,696,568, 10-10-72, Cl. 52-108.000.

Berry, Van H., Jr., to Trinity Industries, Incorporated. Storage tank assembly and method of installing it. 3,702,661, 11-14-72, Cl. 214-152.000.

Berry, Walter Cunningham, Jr., to Du Pont de Nemours, E. I., and Company. Gas purging of spinning packs. 3,671,653, 6-20-72, Cl. 264-39.000.

Berry, William A., to Addmaster Corporation. Readout apparatus. 3,666,927, 5-30-72, Cl. 235-61.0pc.

Berry, William R.; Drews, Reinhold A.; and Grau, Julius J., to Whirlpool Corporation. Lockout for portable appliance with caster jack mechanism. 3,673,592, 6-27-72, Cl. 340-283.000.

Berry, Willis E.: *See—*

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Berry, Willis E., to National Union Electric Corporation. Shag rug cleaning nozzle apparatus. 3,676,894, 7-18-72, Cl. 15-362.000.

Berryman, William O., to Schlumberger Technology Corporation. Mechanical jar. 3,658,140, 4-25-72, Cl. 175-304.

Bersano, Piero, to Norton Company. Pulp grinding machine having a tapered control roll. 3,638,868, 2-1-72, Cl. 241-44.

Bersin, Richard L., to International Plasma Corporation. Method and apparatus for reacting ionized gas with a non-gaseous substance. 3,647,676, 3-7-72, Cl. 204-312.

Bersin, Richard L., to International Plasma Corporation. Method and apparatus for ashing organic substance. 3,671,195, 6-20-72, Cl. 23-230.0pc.

Berson, Bertrand E.: *See—*

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Berteau, Charles Donald. Computer system for improved data transmission. 3,636,520, 1-18-72, Cl. 340-172.5.
Bertele, Erhard; and Schudel, Peter, to Givaudan Corporation. Process for preparation of terpene flavorants. 3,699,169, 10-17-72, Cl. 260-604.00r.
Bertele, Ludwig, to Wild Heerbrugg AG, Firma. Galilean-type telescope system. 3,663,094, 5-16-72, Cl. 350-212.000.
Bertele, Ludwig, 1/2 to Wild Heerbrugg AG, Firma. Objective consisting of five lens members. 3,698,796, 10-17-72, Cl. 350-216.000.
Bertele, Ludwig, to Wild Heerbrugg AG, Firma. Wide-angle objective. 3,700,312, 10-24-72, Cl. 350-215.000.
Bertelsen, Henry Filso. Table with extensions. 3,636,891, 1-25-72, Cl. 108-66.
Bertelsen, Henry Filso. Table extension. 3,703,871, 11-28-72, Cl. 108-66.000.
Bertelson, Richard E.; and Mezitt, Robert W. Apparatus for creasing and tapering used metal containers. 3,693,396, 9-26-72, Cl. 72-325.000.
Bertheas, Jean, to Thomson-CSF. Systems for processing frequency modulated signals. 3,639,695, 2-1-72, Cl. 179-15.55.
Bertheau, Hermann, to U.S. Philips Corporation. X-ray apparatus for screening and radiographs in two directions. 3,659,099, 4-25-72, Cl. 250-50.
Berthelat, Robert J., to Societe Anonyme dite: Etablissements Jacques Berthelat & Fils. Roller conveyor. 3,669,242, 6-13-72, Cl. 198-127.00r.
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Berthmann, Adolf; Lingens, Paul; and Morhenn, Ernst, to Dynamit Nobel Aktiengesellschaft. Method for increasing the safety against firedamp ignitions during blasting in underground mining and blasting elements used for said purpose. 3,648,614, 3-14-72, Cl.102-23.
Berthold, H., Messinglinienfabrik und Schriftgiesserei AG: *See—*
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Berthold, Heinz; Kamm, Kurt; and Forster, Wolfgang, to Pohlig-Heckel-Bleichert Vereinigte Maschinenfabriken A.G. Shed service scraper. 3,653,487, 4-4-72, Cl. 198-36.
Berthold, John W., III, to Bell Telephone Laboratories, Incorporated. Interference filter with alternately designed pairs of dielectric layers. 3,637,294, 1-25-72, Cl. 350-166.
Berthold, Robert V.; and Roberts, Rene M. J., to Union Carbide Corporation. Hexakis (dihaloalkoxymethyl)-malamines (TBAT). 3,707,545, 12-26-72, Cl. 260-249.600.
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Berthoux, Jean; and Gac, Robert, to Progil. Process of manufacturing para-phenyl-phenols. 3,637,870, 1-25-72, Cl. 260-620.
Berthoux, Jean; and Ginet, Bernard, to Progil. Terephthalic acid purification process. 3,646,125, 2-29-72, Cl. 260-525.
Berti, Giancarlo, to Finanz und Kompensations Anstalt Vaduz (Liechtenstein). 2-Hydroxy-1,4-naphthoquinone aminobenzoates. 3,639,432, 2-1-72, Cl. 260-396.
Bertin & Cie: *See—*
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Bertin, Daniel; and Girault, Pierre, to Roussel-UCLAF. 3-Amino-4,4-dihalo-5-pyrazolones. 3,646,058, 2-29-72, Cl. 260-310.
Bertin, Daniel; Perronnet, Jacques; and Teche, Andre, to Roussel-UCLAF. 3-(2'-Tetrahydropyranyl)-1,2,3,4,6,7-hexahydro-5H-cyclopentapyrimidine-2,4-dione. 3,658,819, 4-25-72, Cl. 260-260.
Bertin, Daniel; and Perronnet, Jacques, to Roussel-UCLAF. Alkoxyalkylamino-s-triazine herbicides. 3,679,393, 7-25-72, Cl. 71-93.000.
Bertin, Ira L.: *See—*
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Bertin, Jean Henri, to Bertin & Cie. Flying wing having ground-effect take-off and landing. 3,640,486, 2-8-72, Cl. 244-12.
Bertin, Jean Henri, to Bertin & Cie. Ground-effect transportation system. 3,643,600, 2-22-72, Cl. 104-23.
Bertin, Jean Henri; Le Nabour, Marcel Pierre; and Giraud, Francois Louis, to Bertin & Cie. Fluid ground effect vehicle transportation system. 3,648,620, 3-14-72, Cl. 105-63.
Bertin, Jean Henri, to Bertin & Cie. High-speed ground effect vehicles. 3,662,854, 5-16-72, Cl. 180-121.000.
Bertin, Jean Henri, to Societe d'Etudes et de Developpement des Aeroglisseurs Marins terrestres et Amphibies S.E.D.A.M. Pressure fluid confining facility for ground-effect machine. 3,677,361, 7-18-72, Cl. 180-127.000.
Bertin, Jean Henri, to Bertin & Cie Boite Postale. Gas ejection device with a silencer feature. 3,685,612, 8-22-72, Cl. 181-33.0hc.
Bertin, Jean Henri, to Bertin & Cie. Ground-effect machines. 3,688,724, 9-5-72, Cl. 114-67.00a.
Bertin, Jean-Claude Andre. Device for adjusting the slope of a chair back. 3,633,964, 1-11-72, Cl. 297-371.
Bertin, Mannie; and Bertin, Ira L. Diffusers for conditioned air conduits. 3,654,851, 4-11-72, Cl. 98-110.
Bertin, Marcel R.: *See—*
Boulin, Jacques R.; Bertin, Marcel R.; and Nepomiastchy, Alexis, 3,636,481.
Bertinetti, Emilio Alberto; and Lampredi, Aurelio, to Fiat Societa per Azioni and Cigala & Bertinetti S.a.S. Gears for toothed belt drives, particularly for motors for automotive vehicles, made of synthetic material. 3,651,705, 3-28-72, Cl. 74-243.
Bertioli, Michael Murray: *See—*
Williams, Malcolm; Hodgson, Duncan Barry; and Bertioli, Michael Murray, 3,689,753.
Bertlini, Natale: *See—*
Calcagno, Benedetio; Ghirga, Marcello; and Bertlini, Natale, 3,691,098.
Bertoglio, Guido, to S.A. Albe. Machine for the high speed, extremely precise mass working of pieces having small dimensions and complex forms, in particular of metallic small articles. 3,689,965, 9-12-72, Cl. 29-38.00c.
Bertoglio, Guido D., to Centra Anstalt. Machine for dosing and filling thick liquids into bags of plastic material. 3,643,399, 2-22-72, Cl. 53-187.
Bertola, Peter H., to General Conveyor, Inc. Mechanism for lifting and conveying materiel. 3,667,618, 6-6-72, Cl. 212-128.000.
Bertolacini, Ralph J.: *See—*
Gutberlet, Louis C.; and Bertolacini, Ralph J., 3,677,972.
Bertolacini, Ralph J.; and Gutberlet, Louis C., to Standard Oil Company. Hydrocracking process and catalyst. 3,649,523, 3-14-72, Cl. 208-111.
Bertolacini, Ralph J.; and Gutberlet, Louis C., to Standard Oil Company. Uranium-containing and aluminosilicate-containing hydrocarbon conversion catalyst and process. 3,650,945, 3-21-72, Cl. 208-111.
Bertolacini, Ralph J., to Standard Oil Company (Indiana). Reforming with a platinum mordenite-alumina catalyst. 3,679,575, 7-25-72, Cl. 208-65.000.
Bertolacini, Ralph J.; and Petersen, Richard D., to Standard Oil Company. Naphtha hydroforming process. 3,707,460, 12-26-72, Cl. 208-65.000.
Bertoldi, Gerhard: *See—*
Remmers, Karl; Bertoldi, Gerhard; Leitner, Karl; and Eigner, Erich, 3,648,994.
Bertolet, Doris Y. Floor preserving shoe for platform rockers and the like. 3,669,490, 6-13-72, Cl. 297-272.000.
Bertolet, Doris Y. Prolonged bed care frame. 3,671,983, 6-27-72, Cl. 5-82.000.
Bertolet, John C. Answer and scoring sheet. 3,693,267, 9-26-72, Cl. 35-41.00a.
Bertolini, Gianni; and Vinsani, Mario, to Olivetti-General Electric S.p.A. Monostable multivibrator. 3,696,254, 10-3-72, Cl. 307-273.000.
Bertolini, Natale: *See—*
Ghirga, Marcello; Bertolini, Natale; and Di Fiore, Lucio, 3,683,043.
Bertolino, August U.: *See—*
Neudorfer, David H.; Crookston, Ronald W.; and Bertolino, August U., 3,662,128.
Bertozzi, Eugene R., to Thiokol Chemical Corporation. Cement/polythiol polymer sealants. 3,635,873, 1-18-72, Cl. 260-33.8.
Bertozzi, Eugene R., to Thiokol Chemical Corporation. Fast curing of polysulfide polymers. 3,637,612, 1-25-72, Cl. 260-79.

Bertozzi, Eugene R., to Thiokol Chemical Corporation. Method of making hydroxyl-terminated polysulfide polymers. 3,647,766, 3-7-72, Cl. 260-79.

Bertram, Bernd: *See—*
Specht, Wolfgang; and Bertram, Bernd, 3,635,160.

Bertram, Charles C.: *See—*
Gunning, William F.; Wilson, John F.; and Bertram, Charles C., 3,654,603.

Bertram, Claus: *See—*
Wilke, Heinz; and Bertram, Claus, 3,664,012.

Bertram, James L., to Dow Chemical Company, The. Glycidyl ethers of haloneopentyl glycols. 3,686,358, 8-22-72, Cl. 260-830.0tw.

Bertram, James L.; and Bowen, David O., to Dow Chemical Company, The. Glycidyl ethers of glycerine-containing polyhydroxyl compounds. 3,705,115, 12-5-72, Cl. 260-2.0ep.

Bertram, Leroy W., to Unarco Industries, Inc. Pneumatic safety system for vehicle lading. 3,673,968, 7-4-72, Cl. 105-369.0ba.

Bertram, Sidney, to Bunker-Ramo Corporation, The, mesne. Light modulating device controlled by a divertable fluid stream. 3,704,058, 11-28-72, Cl. 350-160.000.

Bertram, Sidney, to Bunker-Ramo Corporation, The, mesne. Switchable light modulating device. 3,704,059, 11-28-72, Cl. 350-160.000.

Bertrand, Claude: *See—*
Gradeff, Peter S.; and Bertrand, Claude, 3,689,570.

Bertrand, Guy; and Maison, Jean Marc, to Rhone-Poulenc S.A. N-Nitroso-4,4'-bis-bis(2-phenylisopropyl)-diphenylamine. 3,668,253, 6-6-72, Cl. 260-570.00r.

Bertrand, Jack: *See—*
Kalopissis, Gregoire; Bertrand, Jack; and Bugaut, Andree, 3,692,461.

Bertrand, Pierre Claude, to Compagnie des Compteurs. Pressure measuring devices of the electrical counterbalancing force balance type. 3,656,348, 4-18-72, Cl. 73-398.

Bertrand, Pierre Claude, to Compagnie des Compteurs. Device for adjusting the measurement range of captors fitted with force balances particularly for pressure conveyors. 3,660,745, 5-2-72, Cl. 318-676.

Bertrand, Richard R.: *See—*
Weyrich, Arthur G.; Bertrand, Richard R.; and Karinski, Edwin D., 3,691,425.

Bertrand, William F.: *See—*
Teague, Dwight Maxwell; Bertrand, William F.; Willson, Philip J.; and Ammermann, Frank E., 3,667,975.

Bertrang, Hermann; and Spormann, Horst, to Kienzle Apparate G.m.b.H. Play eliminating setting apparatus. 3,636,790, 1-25-72, Cl. 974-409.

Bertrem, Bradley E., to Dover Corporation. Butterfly valve. 3,656,712, 4-18-72, Cl. 251-306.

Bertsch, Hanns F.; Schlachtberger, Ottmar; and Graf, Horst. Biassed oscillator arrangement. 3,635,013, 1-18-72, Cl. 58-107.

Bertsch, Hugh C.; and Russo, Michael E., to Mallinckrodt Chemical Works. Increasing the particle size of precipitated halophosphate phosphors with the aid of seed material. 3,661,792, 5-9-72, Cl. 252-301.4.

Bertsch, Richard; Fussner, Paul; Glaser, Manfred; and Nusser, Hermann, to Bosch, Robert, G.m.b.H. Electromotor and pump unit. 3,639,085, 2-1-72, Cl. 417-410.

Bertsch, Walter: *See—*
Martinez-Alvarez, Francisco; Ruiz, Ricardo Garcia; De Porras, Jaime Molinae; Merino Del Rio, Jose Luis; and Bertsch, Walter, 3,655,789.

Berube, Felix J. Lock. 3,650,132, 3-21-72, Cl. 70-364.

Beruck, Andrew J. Temperature measuring and indicating device. 3,635,086, 1-18-72, Cl. 73-343.

Berwanger, John J., to Hood Sponge Rubber Company. Pipe wrap. 3,654,061, 4-4-72, Cl. 161-118.

Berwin, Ted W.; and Rado, John A., to Hughes Aircraft Company. Analog shift register. 3,643,106, 2-15-72, Cl. 307-221.

Berwin, Zoited W., to Hughes Aircraft Company. Resonant sweep generator. 3,699,356, 10-17-72, Cl. 307-228.000.

Berz, Gerhard: *See—*
Lasch, Cecil A., Jr.; Bingham, George H.; and Berz, Gerhard, 3,645,581.

Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leeniex, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreevich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich. Process for packing and drying solid wood and aplant for accomplishing same. 3,646,687, 3-7-72, Cl. 34-13.8.

Besancenot, Serge. Combined motor and voltmeter. 3,662,265, 5-9-72, Cl. 324-157.

Besant, Robert W.: *See—*
McKinnon, Murdoch G.; Wilson, James N.; and Besant, Robert W., 3,690,339.

Beschke, Helmut; Pfleger, Hans; Ferch, Horst; and Wisenmenger, Edith, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of finely divided organically modified silicas. 3,656,981, 4-18-72, Cl. 106-288.

Besedin, Alexandr Fedorovich: *See—*
Nekrasov, Nikolai Nikolaevich; Blinchikov, Alexandr Lvovich; Kazansky, Vasily Leonidovich; Besedin, Alexandr Fedorovich; Krikunenko, Anatoly Flilippovich; Makarov, Egor Maximovich; Zemskov, Alexei Lavrentievich; Afinogenov, Fridrikh Ivanovich; Kirichenko, ergei Pavlovich; and Kulikov, Alexei Andreevich, 3,681,003.

Besedin, Leonid Nikolaevich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedin, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Jury Dmitrievich; Yasjukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny iktorovich, 3,654,756.

Besemer, Karl Friedrich: *See—*
Bauer, Franz; Besemer, Karl Friedrich; and Kinner, Gotthard, 3,676,776.

Beshgetoor, Ray V., to Be-Mo Machine Co. Spreading device. 3,666,184, 5-30-72, Cl. 239-512.000.

Beshtee International Corporation: *See—*
Wasp, Edward J., 3,690,732.

Besier, Emil E., to Motorola, Inc. Automatic beam blanking circuit for an electronic video player. 3,663,750, 5-16-72, Cl. 178-7.200.

Besier, Emil E.; and Knauer, Warren L., Jr., to Motorola, Inc. Film format and stop circuit for an electronic video recording player. 3,706,844, 12-19-72, Cl. 178-7.200.

Beslin, Dragoljub; Beherano, Benko; and Mirkovic, Radivoj, to Strojna Tovarna Trbovije. Boom mounted rotary-wheel trench excavator. 3,645,020, 2-29-72, Cl. 37-91.

Besnard, Jean-Claude; and Pasteur, Lylian M. L., to Resines et Dispersions "Redis". Polyester resin granulates and process for preparation of same. 3,692,736, 9-19-72, Cl. 260-40.00r.

Besnard, Marcel, to Societe Anonyme pour l'Equipement Electrique des Vehicules S.E.V. Marchal. Means for attaching the arm of a windshield wiper to the blade support thereof. 3,659,309, 5-2-72, Cl. 15-250.32.

Besoyan, Kirk, to Safety Vee Brake, Inc. Manual control for auxiliary brake device. 3,638,766, 2-1-72, Cl. 188-106.

Bessant, Glyndwr A. R., to Esso Research and Engineering Company. Increased metallizations of iron ore from fluidized bed processes. 3,637,368, 1-25-72, Cl. 75-26.

Bessemer Securities Corporation, mesne: *See—*
Ammann, Stephen K., 3,651,258.

Besser Company: *See—*
Bobolts, Lroy F., 3,696,945.
Springs, Thomas W., 3,679,340.
Woelk, Robert J., 3,660,004.

Besser, John E.: *See—*
Werts, Arthur P.; and Besser, John E., 3,696,050.

Besser, Leslie, to Hewlett-Packard Company. High frequency amplifier. 3,649,925, 3-14-72, Cl. 330-13.

Besser, Paul J.: *See—*
Mee, Jack E.; Heinz, David M.; Hamilton, Thomas N.; Besser, Paul J.; and Pulliam, George R., 3,645,787.
Mee, Jack E.; Heinz, David M.; Hamilton, Thomas N.; Besser, Paul J.; and Pulliam, George R., 3,645,788.

Bessett, Clifford H.: *See—*
Boyd, James W.; and Bessett, Clifford H., 3,645,436.
Boyd, James W.; and Bessett, Clifford H., 3,701,447.

Bessiere, Pierre Etienne, to Labavia-S.G.E. Decelerating system for touring vehicles. 3,650,358, 3-21-72, Cl. 188-296.

Bessire, Jean-Jacques: *See—*
Matthey, Henri; and Bessire, Jean-Jacques, 3,689,816.

Bessko, Dezso; Gallai, Gyula; Farnady, Pal; Jozsa, Geza; Kovy, Margit; Teller, Laszlo; Suba, Andras; and Tisza, Sandor, to Magyar Optikai Muvek. Geodetic sighting instrument. 3,652,166, 3-28-72, Cl. 356-138.

Bessman, Samuel P. Automatic digestion and dry ashing apparatus. 3,684,452, 8-15-72, Cl. 23-253.00r.

Besson, Jean: *See—*
Rerolle, Marc; and Besson, Jean, 3,657,042.

Besson, Jean R.; Cumer, Joseph F.; and Hoarau, Roland J., to Office National d'Etudes et de Recherches Aerospatiales. Opto-electronic device for the remote measurement of the shifts of a movable object. 3,669,549, 6-13-72, Cl. 356-152.000.

Besson, Rene: *See—*
Chiarelli, Robert; Rassat, Andre; Besson, Rene; and Salvi, Antoine, 3,702,831.

Besson, Rene, to Ebauches S.A. Calendar electric timepiece. 3,664,119, 5-23-72, Cl. 58-58.000.

Besson, Rene; Lawsser, Claude; and Rochat, Daniel, to Ebauches S.A. Timepiece with circumferentially indexed setting positions. 3,702,530, 11-14-72, Cl. 58-85.500.

Best, Albert M.; and Anderson, Keith B., to Sperry Rand Corporation. Bale wagon. 3,675,802, 7-11-72, Cl. 214-520.000.

Best, Eric, to Hyster Company, mesne. Means for controlling pallet truck foot pedal position. 3,701,211, 10-31-72, Cl. 280-43.120.

Best Lock Corporation: *See*—
Cady, James C.; and Foshee, William R., 3,652,114.
Best, Peter; and Schweigl, Othmar Friedrich, to Lever Brothers Company. Detergent composition. 3,684,723, 8-15-72, Cl. 252-132.000.
Best, Roger J.; and Sears, Richard G., to General Electric Company. Filter holder. 3,658,183, 4-25-72, Cl. 210-446.
Best, Roland W.: *See*—
Powers, Robert M.; and Best, Roland W., 3,649,624.
Best, William J., to Ladney, Michael, Jr. Method of producing coated vacuum metallized articles. 3,677,792, 7-18-72, Cl. 117-35.00v.
Best, Willie Herman: *See*—
Tyson, David Z.; Hunter, Edward E.; and Best, Willie Herman, 3,643,342.
Bestenreiner, Friedrich; and Deml, Reinhold, to Agfa-Gevaert Aktiengesellschaft. Apparatus for photographic color recording. 3,641,895, 2-15-72, Cl. 95-12.21.
Bestenreiner, Friedrich; Lambeir, Silvaan Rene; and Meeussen, Louis Achilles, to Agfa-Gevaert Aktiengesellschaft. Method of reproducing X-ray pictures. 3,642,349, 2-15-72, Cl. 350-162.
Bestenreiner, Friedrich; Deml, Reinhold; Greis, Ulrich; and Pfeifer, Josef, to Agfa-Gevaert Aktiengesellschaft. Optical apparatus for the reproduction of superimposed pictures. 3,644,019, 2-22-72, Cl. 350-162.
Bestenreiner, Friedrich; Weiershausen, Walter; and Janovjak, Paul, to Agfa-Gevaert Aktiengesellschaft. Method and arrangement for manufacturing diffusion lenses of arbitrary indicatrix. 3,698,810, 10-17-72, Cl. 355-71.000.
Bestian, Herbert: *See*—
Berger, Harald; Bestian, Herbert; and Korbanka, Helmut, 3,644,303.
Berger, Harald; Bestian, Herbert; and Korbanka, Helmut, 3,689,448.
Bestian, Herbert; Kaiser, Eduard; and Korbanka, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Homo-and copolymers of 4-vinyl-azetidinone-2 and process for their manufacture. 3,657,207, 4-18-72, Cl. 260-88.3.
Bestian, Herbert; Kaiser, Eduard; and Korbanka, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Homo- and copolymers of 4-vinyl-4-methyl-azetidinone-2 and process for their manufacture. 3,657,262, 4-18-72, Cl. 260-80.3.
Bestian, Herbert; and Grimm, Dieter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 4-Acyloxy-azetidine-2-ones. 3,663,535, 5-16-72, Cl. 260-239.
Bestt Rollr, Inc.: *See*—
Ellis, Donald A., 3,690,779.
Beswick, Geoffrey Ernest, to Imperial Chemical Industries Limited. Dicarboxylic acid salts of trans, trans 4,4'-diaminodicyclohexylmethane. 3,661,982, 5-9-72, Cl. 260-501.2.
Beta Instrument Company Limited: *See*—
Kyriakis, John; and Tole, Walter Roland, 3,697,335.
Betatronix, Inc.: *See*—
Yanosik, Joseph J., 3,636,428.
Betcher, Alexandr Samuilovich: *See*—
Tatianko, Nikolai Vasilievich; Tsymbal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vailievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.
Beth, Donald; Saliaris, George P.; and Welch, Ralph A. Flat end casing system and method of use. 3,650,774, 3-21-72, Cl. 99-174.
Bethea, Malcolm, Jr. Load determination hanger for transmission line tower. 3,684,222, 8-15-72, Cl. 248-64.000.
Bethel, Joseph H. Power increase arrangement. 3,662,615, 5-16-72, Cl. 74-416.
Bethge, Walther. Apparatus for emplacing filament-shaped materials into thermoplastic materials, methods for using said apparatus and products produced thereby. 3,635,777, 1-18-72, Cl. 156-499.
Bethian, Uwe: *See*—
Riemhofer, Franz; Dittmann, Walter; Bethian, Uwe; and Schutze, Ernst-Christian, 3,668,277.
Bethke, Lyman W.: *See*—
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Bethlehem Steel Corporation: *See*—
Baker, Stephen R.; and Kremer, Harry D., 3,631,914.
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Booth, Robert C., 3,675,118.
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Chu, Vincent H.K., 3,635,694.
Chu, Vincent H.K., 3,635,695.
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Cressman, Russell N.; and Bantz, Walter J., 3,631,714.
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Leonard, Regis J.; and Ulmer, Gene C., 3,664,853.
Lester, Raymond H.; and Snyder, James N., 3,641,795.
Maxwell, Herris M.; Sowers, John E.; and Laidman, John Neil, 3,639,142.
Mayer, Edward H.; and Oliver, Evan M., 3,677,834.
Melloy, George F.; and Dennison, Joseph D., 3,645,801.
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Winkler, Robert L.; and Baker, William J., 3,656,733.
Yohe, Robert A.; and McCall, George L., 3,636,283.
Young, Harold K.; Wald, Herbert; Blanch, William O.; and Meadows, Lacy C., 3,653,544.
Bethune, John H.; Tarzi, Clement A.; Bolton, Michael R.; and Rainville, Joseph R., to Canadian International Paper Company. Process for making crimped rayon. 3,632,718, 1-4-72, Cl. 264-168.
Betker, Ted C.: *See*—
Tabor, Joseph M.; and Betker, Ted C., 3,678,607.
Betlejewski, Frank W.: *See*—
Costanza, Carl C.; Weber, Walter W.; Betlejewski, Frank W.; and Frystak, Richard, 3,659,934.
Betlejewski, Frank W.; and Hanberg, Sanford M., to Bell & Howell Company. Control mechanism having cycle switches selectively actuating a mode switch. 3,674,948, 7-4-72, Cl. 200-50.00c.
Betrix, Jean-Pierre F.: *See*—
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Bett, Bruce D.: *See*—
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Bettcher Industries, Inc.: *See*—
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Bettcher, Louis A., 3,687,067.
Bettcher, Louis A., 3,688,403.
Bettcher, Louis A., 3,693,684.
Bettcher, Louis A., 3,704,665.
Fetzer, Fred; and Miranda, Ronald P., 3,654,664.
Bettcher, Louis A., to Bettcher Industries, Inc. Food press. 3,683,797, 8-15-72, Cl. 100-232.000.
Bettcher, Louis A., to Bettcher Industries, Inc. Food press. 3,687,067, 8-29-72, Cl. 100-218.000.
Bettcher, Louis A., to Bettcher Industries, Inc. Knife. 3,688,403, 9-5-72, Cl. 30-276.000.
Bettcher, Louis A., to Bettcher Industries, Inc. Cutting apparatus. 3,693,684, 9-26-72, Cl. 146-105.000.
Bettcher, Louis A., to Bettcher Industries, Inc. Food press and dies. 3,704,665, 12-5-72, Cl. 100-232.000.

Bettencourt, Joseph, 30% each to Pleich, John D. and Holland, Paul. Corrective mirror assembly. 3,677,620, 7-18-72, Cl. 350-145.000.
Better Cutting Tools (Newport) Limited: *See*—
Neale, Richard Bernard, 3,651,571.
Better Packages Inc.: *See*—
Sharpe, Everett E.; and Hughes, Johnstone E., 3,707,135.
Betteridge, Walter: *See*—
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Bettiga, Albert C.: *See*—
Moradzadeh, Yaqub; and Bettiga, Albert C., 3,682,678.
Bettin, Hubertus, to Olympia Werke AG. Numerical display tubes controlled by pulses produced by voltage inverter and directed by switch device to each tube in succession. 3,648,102, 3-7-72, Cl. 315-133.
Bettinardi, Edward Robert, to Johns-Manville Corporation. Catalytic oxidation unit comprising a fluid permeable body of fibrous admixture. 3,697,447, 10-10-72, Cl. 252-458.000.
Bettinger, James H., to United Fabricating Company, Inc. Raised floor panel and assembly. 3,681,882, 8-8-72, Cl. 52-126.000.
Bettini, Dino: *See*—
Muller, Erwin; and Bettini, Dino, 3,671,791.
Betts, Albert Thomas; and Uri, Norbert. Method for the reduction of photochemical degradation in polyurethanes. 3,644,275, 2-22-72, Cl. 260-45.7.
Betts, Anson G. Treatment of phosphate rock with acids. 3,671,189, 6-20-72, Cl. 23-88.000.
Betts, Anson G. Recovery of sulphur dioxide (SO_2) from gas streams and precipitation of aluminum fluorine product. 3,697,248, 10-10-72, Cl. 71-38.00.
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Betts, Robert E. Delta squib circuit. 3,695,178, 10-3-72, Cl. 102-28.00r.
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Beuk, Ljubomir; Dogadko, Peter; and Sansbury, Larry, to Motorola, Inc. Solid state ignition system. 3,669,086, 6-13-72, Cl. 123-148.00e.
Beukers, John M.; and Williams, Christian B., to United States of America, Army. Two channel direction finder. 3,671,968, 6-20-72, Cl. 343-113.0de.
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Beumer, Karl W.; Geany, Gerard M.; Haran, John A.; Hecker, Edward P.; Nyman, George E.; and Post, Robert E., to International Business Machines Corporation. Apparatus for winding a core and splitting multistrand wires. 3,643,881, 2-22-72, Cl. 242-4.
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Beuscher, Hugh Jacob; Nelson, Donald Robert; Sisson, William Howard; and Toy, Wing Noon, to Bell Telephone Laboratories, Incorporated. Processor for m-out-of-n code words. 3,638,184, 1-25-72, Cl. 340-146.1.
Beusink, Bernard Joseph: *See*—
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Beutler, Hans; and Beatty, Ronald L., to Union Carbide Corporation. Low density pyrolytic carbon coating process. 3,682,759, 8-8-72, Cl. 117-46.0cg.
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Bevacqua, Louis A., to Motorola, Inc. Distributor sensor adaptor. 3,660,623, 5-2-72, Cl. 200-19.
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Beverett, James H. Automatic dripolator, single compartment. 3,696,733, 10-10-72, Cl. 99-307.000.
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Beveridge, Harold N. Electrostatic loudspeaker. 3,668,335, 6-6-72, Cl. 179-111.00r.
Beveridge, Robert W.; and Macaluso, Felix, to Ricca Data Systems, Inc. Apparatus for reading optically cardlike elements and a merchandising system utilizing the same. 3,665,164, 5-23-72, Cl. 235-61.11.
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Bevilacqua, Frank; and Runde, Herbert A., to Combustion Engineering, Inc. Control rod position transmitter. 3,656,074, 4-11-72, Cl. 335-206.
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Bevington, William J., to Clow Corporation. Axially locked pipe joint. 3,698,744, 10-17-72, Cl. 285-111.000.
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Bevis, Michael J.; Bello, Hobson J.; and Holtz, Carl F., to Eastman Kodak Company. Process for preparing color film with auxiliary or silver sound record using bleach inhibitor. 3,705,803, 12-12-72, Cl. 96-4.000.
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Bennett, Alan E. C.; and Bewick, Michael, 3,670,729.
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Beyer, Frank R., to North American Rockwell Corporation. Core clamping system for a nuclear reactor. 3,682,774, 8-8-72, Cl. 176-87.000.
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Beyerle, Rudi; Stachel, Adolf; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckard, to Cassella Farbwerke Mainkur Aktiengesellschaft. 3[-γ-Tertiary amino-β-alkoxy benzyloxypropyl]-4-hydrocarbon-5-8-alkoxy coumarins. 3,652,557, 3-28-72, Cl. 260-247.2.
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Beyl, Jean Joseph Alfred. Safety ski binding. 3,647,235, 3-7-72, Cl. 280-11.35.
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Beyleveld, Wilhelmus M.; Oxenrider, Bryce C.; and Woolf, Cyril, to Allied Chemical Corporation. Novel fluorocarbon diamides. 3,697,562, 10-10-72, Cl. 260-404.500.
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Bezgela, Eugene G.: *See—*
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Bhagat, Gopal C.; and Randall, John M., to Xerox Corporation. Automatic duplexing apparatus. 3,697,170, 10-10-72, Cl. 355-17.000.
Bhagat, Gopal C.; and May, Joseph N., to Xerox Corporation. Method of binding. 3,707,418, 12-26-72, Cl. 156-245.000.
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Bhappu, Roshan B.: *See—*
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Bharali, Uipalananda, to RCA Corporation. Four-phase high speed counter. 3,654,441, 4-4-72, Cl. 235-92.
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Biagini, Silvano, to Compagnie de Saint-Gobain. Apparatus for skimming the surface of molten metal baths in the manufacture of glass. 3,653,869, 4-4-72, Cl. 65-182.

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Bialy, Jerzy J.: *See—*
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Bialy, Jerzy J.; and Dorn, Peter, to Texaco Inc. Thermally stable fuel composition. 3,652,241, 3-28-72, Cl. 44-71.

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Bianchi, Gianfranco: *See—*
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Bianchi, Nereo, to Necchi S.p.A. Automatic apparatus for sewing a seam of a predetermined configuration. 3,653,347, 4-4-72, Cl. 112-121.12.

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Biazzo, Martin Robert; King, Bernard George; and Ortel, William Charles Gormley, to Bell Telephone Laboratories, Incorporated. Acoustically absorbent mounting method for optical modulator. 3,678,574, 7-25-72, Cl. 29-592.000.

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Biber, Conrad H., to Polaroid Corporation. Modulated electronic flash control. 3,634,725, 1-11-72, Cl. 315-241.

Biber, Conrad H., to Polaroid Corporation. Electronic flash lamp control network. 3,646,865, 3-7-72, Cl. 95-11.5.

Biber, Conrad H., to Polaroid Corporation. Low energy level electronic flash modulator. 3,650,189, 3-21-72, Cl. 95-11.5.

Biberacher, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Selective removal of nitrogen dioxide from gases. 3,705,231, 12-5-72, Cl. 23-2.00r.

Bibighaus, Fred W., to Superior Tube Company. Tube rolling mill for producing finned tubing. 3,683,661, 8-15-72, Cl. 72-208.000.

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Bichel, Darwin Carl; Malcolm, Robert La Verne; and Slaverns, Wayne Eldon. Adjustable steering column for an agricultural machine. 3,695,627, 10-3-72, Cl. 280-87.00a.

Bicher, Haim I., to Transidyne General Corporation. Blood cell aggregometer. 3,700,408, 10-24-72, Cl. 23-230.00b.

Bichsel, Stanley E.; and Carpenter, Tim D., to Holly Sugar Corporation. Ion exchange treatment of sugar containing solutions and production of a liquid fertilizer. 3,700,460, 10-24-72, Cl. 99-2.000.

Bicicchi, Vincent A., to Woolley, W. J., Co. Door with double-inflatable seal and pressure chamber. 3,678,624, 7-25-72, Cl. 49-68.000.

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Bickel, David P.; Davis, Melvin H.; Starks, Karl H., Jr.; and Tsoras, John, to Goodyear Tire & Rubber Company, The. Monitoring system. 3,678,486, 7-18-72, Cl. 340-227.000.
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Bickel, Hans; and Kump, Wilhelm, to Ciba-Geigy Corporation. Process for the manufacture of 3-formylrifamycin SV. 3,632,492, 1-4-72, Cl. 204-158.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, to Ciba Corporation. Derivatives of 7-amino cephalosporanic acid. 3,632,810, 1-4-72, Cl. 260-243.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, to Ciba Corporation. Derivatives of 7-aminocephalosporanic acid. 3,639,396, 2-1-72, Cl. 260-243.
Bickel, Hans; Fechtig, Bruno; and Kump, Wilhelm, to Ciba Corporation. Process for the manufacture of 3-formylrifamycin-SV. 3,644,337, 2-22-72, Cl. 260-239.3.
Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, to Ciba-Geigy Corporation. Derivatives of 7-aminocephalosporanic acid. 3,646,023, 2-29-72, Cl. 260-243.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Voser, Walter; Mueller, Johannes; and Peter, Heinrich, to Ciba Corporation. Heavy metal complexes of cephalosporin C and process for the isolation of cephalosporin C in the form of such complexes. 3,661,901, 59-72, Cl. 260-243.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Hueller, Johannes; and Peter, Heinrich, to Ciba-Geigy Corporation. Cephalosporanic acid derivatives and process for their manufacture. 3,682,903, 8-8-72, Cl. 260-243.00c.
Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, to Ciba-Geigy Corporation. Derivatives of 7-(-5-aminotetrazolylacetylamino)-cephalosporanic acid. 3,686,172, 8-22-72, Cl. 260-243.00c.
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Bickford, John H., to Veeder Industries Inc. Computing device. 3,633,000, 1-4-72, Cl. 235-92.
Bickford, John H., to Veeder Industries Inc. Multiple product fluid dispensing system. 3,639,735, 2-1-72, Cl. 235-94.
Bickford, John H., to Veeder Industries Inc. Analog/digital meter having front indicator means overlying a rear indicator means. 3,689,835, 9-5-72, Cl. 324-115.000.
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Bickford, William J.; De Bettencourt, Joseph T.; Roche, James F.; and Rowland, Howard J., to Raytheon Company. Multi-aperture receiving and transmitting system. 3,646,443, 2-29-72, Cl. 325-56.
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Bicking, Robert E., to Honeywell Inc. Hysteresis motor control circuit apparatus. 3,667,013, 5-30-72, Cl. 318-166.000.
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Bickmore, John T., to Xerox Corporation. Development apparatus. 3,641,980, 2-15-72, Cl. 118-637.
Bickoff, Emanuel M.; Spencer, Roland R.; and Kohler, George O., to United States of America, Agriculture. Fractionation of leafy green crops. 3,684,520, 8-15-72, Cl. 99-8.000.
Bidault, Michel; Dosdat, Jean; Lelay, Roland; and Parouty, Jean Claude, to Compagnie Francaise Thomson Houston-Hotchkiss Brandt. Method of manufacturing long length composite superconductors. 3,699,647, 10-24-72, Cl. 29-599.000.
Biddick, Royce E., to Gould Inc. Low maintenance batteries having electrolyte reservoir in vapor contact with the cells. 3,647,543, 3-7-72, Cl. 136-6.
Biddison, John M., to Globe Tool and Engineering Company, The. Shaft rotating mechanism. 3,673,878, 7-4-72, Cl. 74-125.500.
Biddison, John M., to Globe Tool and Engineering Company, The. Wave winding of armatures. 3,705,459, 12-12-72, Cl. 29-597.000.
Biddle, Bilburn Emmett. Pet-tender. 3,703,160, 11-21-72, Cl. 119-121.000.
Bideau, Max A.; Chauveton, Charles E.; Fruchard, Alain; and Laurens, Marc, to Eastman Kodak Company. Printing from color transparencies. 3,692,524, 9-19-72, Cl. 96-6.000.
Bidegain, Georges Clement, to Bidegain S.A. Shoes, especially for children. 3,681,860, 8-8-72, Cl. 36-2.50e.
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Bidell, Frederick W.; Herold, Carl D., Jr.; and Lindholm, James H., to Sylvania Electric Products, Inc. Synchronizing systems in the presence of noise. 3,706,933, 12-19-72, Cl. 325-479.000.
Bidwell, Dennis P.; Davies, Douglas R.; Hanley, John T., Jr.; Hart, William K.; Henderson, Thomas A.; Lovell, Thomas W.; and Fogg, Lloyd C. Method and apparatus for preventing inebriated persons from operating vehicles. 3,665,447, 5-23-72, Cl. 340-279.000.
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Bieber, William J., to Mr. Gasket Company. Shifting apparatus. 3,636,793, 1-25-72, Cl. 74-473.
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Biechele, Dallas J., Jr. Processing carp for human consumption. 3,690,899, 9-12-72, Cl. 99-111.000.
Biechl, Josef; and Konrath, Karl, to Bosch, Robert, G.m.b.H. Centrifugal regulator system for fuel-injection combustion engines. 3,672,343, 6-27-72, Cl. 123-140.0mc.
Biecker, George A.: *See—*
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Biederman, Edwin W., Jr., to Cities Service Oil Company. Fire retardant foam comprising montmorillonite clay, float ash and phosphate rock. 3,633,675, 1-11-72, Cl. 169-1.
Biederman, Edwin W., Jr., to Cities Service Oil Company. Light weight cements for oil wells. 3,669,701, 6-13-72, Cl. 106-120.000.
Biederman, Stuart J.; and Jezewski, Walter E., to North American Philips Corporation. Air operated terminal insertion device. 3,668,760, 6-13-72, Cl. 29-203.00b.
Biederman, Stuart J.; and Jezewski, Walter E. Air operated terminal feed device. 3,689,984, 9-12-72, Cl. 29-203.00s.
Biedermann, Siegfried, to Uninorm Anstalt. Apparatus for transmission of information. 3,634,826, 1-11-72, Cl. 345-167.
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Bieker, Lawrence W.; Schuler, Harold E.; and Kinghorn, Mark D., to Aerojet-General Corporation, mesne. Cage-to-track connection. 3,666,158, 5-30-72, Cl. 228-25.000.
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Biel, John Hans; and Klundt, Irwin L., to Aldrich Chemical Company, Inc. Amino acid amides of disubstituted phenethylamines. 3,676,492, 7-11-72, Cl. 260-559.
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Bien, Hans-Samuel; Hohmann, Walter; Vollmann, Heinrich; and Heinrich, Leister, to Farbenfabriken Bayer Aktiengesellschaft. Anthraquinone dyes. 3,704,252, 11-28-72, Cl. 260-380.000.
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Bienfait, Constant, to N.V. Nederlandsche Kabelfabrieken. Machine for the manufacture of a multi-strand cable. 3,631,662, 1-4-72, Cl. 57-13.
Biensan, Michel; and Bruant, Philippe, to Societe Nationale des Petroles d'Aquitaine tour Aquitaine. Anionic solution polymerization of lauroyl lactam. 3,651,024, 3-21-72, Cl. 260-78.
Biensan, Michel; and Bruant, Phillippe, to Societe Nationale des Petroles d'Aquitaine. Solution polymerization of lauryl lactam. 3,657,194, 4-18-72, Cl. 260-78.
Biensan, Michel; and Bruant, Philippe, to Societe Nationale des Petroles d'Aquitaine. Process for obtaining polylactam powders. 3,705,871, 12-12-72, Cl. 260-33.60r.
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Bienwald, Wolfgang F.; and Bowie, William J., to Leviton Manufacturing Co., Inc. Trigger mechanism for power tool. 3,662,136, 5-9-72, Cl. 200-157.000.
Bier, Albert, to Moeller & Neumann GmbH. Screwdown devices for rolling mills. 3,673,841, 7-4-72, Cl. 72-248.000.
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Bier, Milan. Electroosmotic and electrodialysis concentration, purification, and desalting. 3,677,923, 7-18-72, Cl. 204-180.00p.
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Bierlein, John David, to Du Pont de Nemours, E. I., and Company. Magneto-optic device having alternate layer film structure. 3,650,601, 3-21-72, Cl. 350-151.
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Biernath, Emil; and Burkard, Hans, to Excentra Gesellschaft mit beschrankter Haftung. Radial piston machine. 3,670,629, 6-20-72, Cl. 92-72.000.
Biernson, George; Euling, Raymond; and Jones, Paul W., to Sylvania Electric Products, Inc. Optical low-pass spatial filter. 3,671,107, 6-20-72, Cl. 350-162.0sf.
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Biesinger, Erwin. Apparatus for continuously treating textile material. 3,690,128, 9-12-72, Cl. 68-20.000.
Biesterfeld, Horst; Brennecke, Manfred; and Widmann, Sampo, to Deininger, Bertram. U-shaped plate-like components and connecting elements therefor. 3,645,036, 2-29-72, Cl. 46-23.

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Bigdon, Orville W.; Edwards, Robert S.; and Powers, William J., III, to Texaco Inc. Process for preparation of zinc dialkyl dithiophosphates. 3,686,243, 8-22-72, Cl. 260-429.900.
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Bigelow, Floyd E., Jr. Assembly of collapsed buildings for shipping. 3,680,273, 8-1-72, Cl. 52-143.000.
Bigelow, Hugh A., to United States of America, Army. Wear testing apparatus. 3,688,556, 9-5-72, Cl. 73-7.000.
Bigelow, John Howard, to Du Pont de Nemours, E. I., and Company. Direct-positive silver halide emulsions containing boron hydrides. 3,637,392, 1-25-72, Cl. 96-108.
Bigelow, John Howard, to Du Pont de Nemours, E. I., and Company. Direct-writing emulsions prepared by adding after silver halide precipitation in the presence of lead, insolubilizing acid anions, and heterocyclic nitrogen compounds. 3,652,287, 3-28-72, Cl.96-108.
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Biggane, John D., to Superior Strut & Hanger Company. Clamp for pipe support with slanting pivotal assembly. 3,650,499, 3-21-72, Cl. 248-62.
Biggs, Carl E., to Textron, Inc. Battery charging system using a coulometer as a logic device. 3,652,917, 3-28-72, Cl. 320-45.
Biggs, Lawrence M., Jr., to United States of America, Navy. Expandable aerodynamic fin. 3,633,846, 1-11-72, Cl. 244-3.27.
Biggs, Paul G., to Western Geophysical Company of America. Two-level depth controllers for seismic streamer cables. 3,673,556, 6-27-72, Cl. 340-7.000.
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Bigliano, Robert Paul; and Thaxton, Karl Lehman, to Du Pont de Nemours, E. I., and Company. Method and system for simulating haftones. 3,668,311, 6-6-72, Cl. 178-6.700.
Biglin, Duane O.; and Grothjan, Jerome R., to Owens-Illinois, Inc. Preformed plastic blank for making open mouth plastic containers. 3,634,182, 1-11-72, Cl. 161-42.
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Biheller, Hans J., to Worthington Corporation. Self adjusting backflow preventor for centrifugal pumps. 3,664,759, 5-23-72, Cl. 415-121.000.
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Bihler, Otto, to Bihler, Otto, KG. Apparatus for providing contact heads on contact members. 3,694,614, 9-26-72, Cl. 219-103.000.
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Bil, Milos S.; and Brunner, Walter H., to Clairol Incorporated. Dyeing human hair with hydroxyalkyl nitroaniline dyes. 3,642,423, 2-15-72, Cl. 8-10.1.
Bilabel, Friedrich. Band filter with vacuum suction chamber. 3,669,272, 6-13-72, Cl. 210-152.
Bilancia, Raymond A.: *See—*
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Biland, Hans Rudolf; and Duennenberger, Max, to Ciba Limited. Carboxylic acid amides. 3,676,494, 7-11-72, Cl. 260-559.00t.
Biland, Hans-Rudolf: *See—*
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Bilas, Michael. Tiltable mounting for dump truck bodies. 3,671,073, 6-20-72, Cl. 298-17.
Bilbrey, Robert A.; and Van Gelder, Robert V. Cable stripping tool. 3,665,603, 5-30-72, Cl. 30-90.700.
Bilderback, John W., to Goodyear Tire & Rubber Company, The. Method of processing powdery accelerators prepared in an aqueous medium. 3,640,975, 2-8-72, Cl. 260-79.5.
Bildsoe, Jorgen S., to Rapistan Incorporated. Sensor for in-floor conveyors. 3,665,864, 5-30-72, Cl. 104-88.000.
Bildsoe, Jorgen S., to Seatech Engineering, Inc. Pallet. 3,685,637, 8-22-72, Cl. 198-189.000.
Bildtsen, Christian, to Allmanna Svenska Elektriska Aktiebolaget. Arrangement for producing a seal between a container and a lid. 3,688,941, 9-5-72, Cl. 220-46.00r.
Biles, Jerry W., to Cities Service Oil Company. Preventing scale adherence in oil wells. 3,656,551, 4-18-72, Cl. 166-279.
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Bilinski, Donald J.; Galowin, Lawrence S.; and Napolitano, Michael, to Singer Company, The, mesne. Thermal shield. 3,675,711, 7-11-72, Cl. 165-32.000.
Bilinski, Donald J.; and Weisbord, Leon, to Singer Company, The, mesne. Flexure hinge assembly. 3,700,289, 10-24-72, Cl. 308-2.00a.
Bill, David H. Wall structure. 3,703,792, 11-28-72, Cl. 52-242.000.
Bill, Hugo. Bathing apparatus. 3,641,596, 2-15-72, Cl. 4-173.
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Billarant, Jean; deceased (by Soulard, Solange F. G.; administratrix), to Velcro France. Strip for fixing a web of flexible material onto a support. 3,657,850, 4-25-72, Cl. 52-222.000.
Billarant, Patrick. Flexible bands fitted with hooks for the fabrication of separable fastening devices. 3,673,301, 6-27-72, Cl. 264-163.000.
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Billawala, Shahbuddin A., to Burroughs Corporation. Multiple surface fluid film bearing. 3,657,710, 4-18-72, Cl. 340-174.1.
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Biller, Efim; Huettner, Rudolf; and Velling, Gunter, to Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft. Process for the treating crude alkylated phenols. 3,691,238, 9-12-72, Cl. 260-621.00a.
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Billeter, Henry R., to Sloan Valve Company. Pneumatic-hydraulic braking system for railway cars. 3,637,054, 1-25-72, Cl. 188-195. .
Billeter, Henry R., to Sloan Valve Company. Automatic double acting slack adjusters. 3,669,224, 6-13-72, Cl. 188-202.000.
Billeter, Henry R.; and Allen, Charles S., to Sloan Valve Company. Remotely actuated flush valves. 3,695,288, 10-3-72, Cl. 137-360.000.
Billett, Ronald J.; Holtkamp, Wilheimus H.; and Vittanen, Veikko K., to FMC Corporation. Packaging machine and method. 3,665,673, 5-30-72, Cl. 53-30.000.
Billgren, Karl Lennart. Hanging roof structure. 3,667,173, 6-6-72, Cl. 52-83.
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Billings, Roy O. Hydraulic actuators for orienting implements on cranes. 3,633,773, 1-11-72, Cl. 214-147.
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Billings, Roy O. Pressure plate and linkage connection between a dipper stick and an implement. 3,669,287, 6-13-72, Cl. 214-147.00g.
Billings, William Charles. Sled for snow or water. 3,666,281, 5-30-72, Cl. 280-12.
Billings, William G., to Phillips Petroleum Company. Solvent absorption of carbon monoxide. 3,658,463, 4-25-72, Cl. 23-2.
Billings, William G., to Phillips Petroleum Company. Selectively removing monoalkylbenzenes from mixtures thereof with dialkylbenzenes. 3,691,247, 9-12-72, Cl. 260-674.00a.
Billings, William W.; and Calfee, Wendell, to Westinghouse Electric Corporation. Over and under excitation protection circuit for alternating current power systems. 3,683,199, 8-8-72, Cl. 307-87.000.
Billingsley, James D., to LTV Aerospace Corporation. Photographing means. 3,690,233, 9-12-72, Cl. 95-11.000.
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Billino, Rene Alfredo. Safety lock. 3,673,830, 7-4-72, Cl. 70-352.000.
Billmann, Gerhard Leonhard Emil, to Bunker-Ramo Corporation, The. Plug connection contact with high security against burning off. 3,691,511, 9-12-72, Cl. 339-111.000.
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Billon, Gerard; Henry, Jean Claude; and Vincent, Eugene, to Gerin, Merlin. Differential valve safety device for compressed gas circuit interrupters. 3,700,848, 10-24-72, Cl. 200-148.00r.
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Bills, James L., to Monsanto Company. Cuprous sulfonate salt complexes. 3,647,840, 3-7-72, Cl. 260-438.1.
Bills, Kenneth G., to TRW Inc. Pump. 3,645,651, 2-29-72, Cl. 417-479.
Billy, Jean-Marc, to Ogilvie Flour Mills Company Limited, The. Phenol aldehyde water-resistant starch-based adhesives and their preparation. 3,658,733, 4-25-72, Cl. 260-17.2.
Biloco, Georges A., to Forano Limitee. Grinder feeding system. 3,638,792, 2-1-72, Cl. 209-73.
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Bilow, Norman, to United States of America, Air Force. Coated metal conductors. 3,632,441, 1-4-72, Cl. 117-218.
Bilow, Norman; and Rosenberg, Harold, to United States of America, Air Force. Cured polyferrocenylenes and process for curing. 3,640,959, 2-8-72, Cl. 260-64.
Bilow, Norman. Ferrocene-phthalaldehyde copolymers. 3,640,961, 2-8-72, Cl. 260-67.
Bilow, Norman; and Rosenberg, Harold, to United States of America, Air Force. Process for curing polyferrocenylenes. 3,640,963, 2-8-72, Cl. 260-67.
Bilow, Norman, to Hughes Aircraft Company. Method of preparing aromatic resins and products thereof. 3,669,929, 6-13-72, Cl. 260-47.00r.
Bilow, Norman, to Hughes Aircraft Company. Curable polyphenylene copolymers and resin compositions thereof. 3,678,006, 7-18-72, Cl. 260-47.00r.
Biloxi, Joe C. May; and Lowery, James D., Jr. Multipurpose trailer. 3,682,337, 8-8-72, Cl. 214-152.000.
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Bilton, John, to Fluidrive Engineering Company Limited. Geared drives incorporating fluid couplings. 3,690,196, 9-12-72, Cl. 74-730.000.
Bilz, Otto. Quick-change chucks. 3,633,931, 1-11-72, Cl. 279-75.
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Bimber, Russell M.; and Schuldt, Paul H., to Diamond Shamrock Corporation. Polychloro derivatives of monocarboxy pyridines. 3,637,716, 1-25-72, Cl. 260-295.
Bimber, Russell M., to Diamond Shamrock Corporation. Vapor phase synthesis of chlorinated aromatic nitriles. 3,652,637, 3-28-72, Cl. 260-465.
Bimler, Rudolf. Device for the treatment of fractures, especially leg fractures. 3,651,803, 3-28-72, Cl. 128-88.
Binard, Pierre C., to Elphiac. Inductor for the thermal treatment of a material which is not very or non-electrically conducting containing ferromagnetic or electrically conductive particles. 3,705,284, 12-5-72, Cl. 219-10.490.
Binasik, Chester S.; Hudson, Daniel H.; and Voorheis, Temple S., to Coen Company. Combustion chamber burner throat construction. 3,641,951, 2-15-72, Cl. 110-1.
Binckley, Earle T. Automotive safety side wind indicator. 3,686,938, 8-29-72, Cl. 73-189.000.
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Binder, Rolf; and Meier, Max, to Rieter Machine Works, Ltd. Method and apparatus for mixing staple fibers. 3,648,330, 3-14-72, Cl. 19-145.5.
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Bindler, Jakob: *See*—
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Bindler, Jakob, to Ciba-Geigy AG. Process for the production of dyeings on fibre material consisting of polymeric or copolymeric acrylonitrile. 3,652,201, 3-28-72, Cl. 8-172.
Bindler, Jakob; and Keller, Rudolf. Levelling polyamdie fiber dyeing with sulfonated long chain alkyl diphenyl ether and quaternized long chain alkyl ammonium alkylene oxide condensate. 3,684,426, 8-15-72, Cl. 8-15.000.
Binek, Bedrich: *See*—
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Binek, Bedrich; and Ullmann, Werner, to Ceskoslovenska akademie ved. Method and apparatus for analysing low-thermal excitable dispersive systems. 3,644,743, 2-22-72, Cl. 250-218.
Binford, Jack C.; Ethridge, Fredrick A.; and Talbot, James R., to Fiber Industries, Inc. Apparatus for bulking yarn. 3,654,677, 4-11-72, Cl. 28-1.3.
Binford, Jack C.; Ethridge, Frederick A.; and Talbot, James R., to Fiber Industries, Inc. Method for producing a bulked yarn and apparatus therefor. 3,703,753, 11-28-72, Cl. 28-72.120.

Bing, Alan John, to British Railways Board. Laterally movable railway vehicle truck. 3,631,810, 1-4-71, Cl. 105-171.
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Bingham, David W., to Pitters Proprietary Limited. Slicing apparatus. 3,667,522, 6-6-72, Cl. 146-131.000.
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Bingham, Terrence Ronald. Ramp plate and loader for mineral conveyors. 3,694,032, 9-26-72, Cl. 299-34.000.
Bingham, Wallace Karl, to Minnesota Mining and Manufacturing Company. Retroreflective microspheres having a dielectric mirror on a portion of their surface and retroreflective constructions containing such microspheres. 3,700,305, 10-24-72, Cl. 350-105.000
Bingham, Wallace Karl, to Minnesota Mining and Manufacturing Company. Microspheres having an antireflection coating and their use. 3,700,478, 10-24-72, Cl. 117-28.000.
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Binkley, Frederick H., Jr.; Lanier, Eldred S., Jr.; and Barrilleaux, Robert G., to Texaco Inc. Sampling apparatus for waste disposal system. 3,680,389, 8-1-72, Cl. 73-421.00b.
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Binning, Robert C.; Parts, Leo P.; Peresie, Robert J.; and Rodenburg, Margaret L., to Monsanto Research Corporation. Method of graphitizing fibers. 3,699,210, 10-17-72, Cl. 23-209.300.
Binnings, Gerald F.; Meyer, Theodore N.; and Riley, Mel J., to Aerojet-General Corporation. Automated biological reaction instrument. 3,650,437, 3-21-72, Cl. 222-136.
Binnings, Gerald F.; Meyer, Theodore N.; and Riley, Mel J., to Aerojet-General Corporation. Incubation chamber. 3,654,091, 4-4-72, Cl. 195-139.
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Binns, Robert Eric, to Amchem Products, Inc. Zirconium rinse for phosphate coated metal surfaces. 3,695,942, 10-3-72, Cl. 148-6.15r.
Binns, Thomas David; and Gattiker, David Cyril George, to Interoxo A.G. Preparation of olefin oxide from an olefin. 3,635,803, 1-18-72, Cl. 204-80.
Binon, Fernand; and Descamps, Marcel Louis Victor, to Laboratoires Labaz. Benzo[b] benzofurano [2,3-e] oxepines. 3,651,051, 3-21-72, Cl. 260-240.
Binon, Fernand; and Beiler, Jay Morton, to Richardson-Merrell, Inc. 3-(4-Pyridyl)-4-(2-hydroxyphenyl)pyrazole derivatives. 3,678,063, 7-18-72, Cl. 260-296.00r.
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Bird, Henry M. B.; Dixon, Geoffrey C.; and Knowles, J. Warwick, to Atomic Energy of Canada Limited. Electromechanical feedback device for fine control of a platform position. 3,658,425, 4-25-72, Cl. 356-110.000.
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Birkin, Michael Sambrook, to British Railways Board. Communication systems between a trackway and vehicles. 3,700,886, 10-24-72, Cl. 246-63.00a.
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Birr, Jacques; Colson, Georges; Abel, Bernard; and Charbonnier, Patrice, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Thermochemical cutting or scarfing process. 3,639,178, 2-1-72, Cl. 148-9.
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Birtchet, Ralph D., to Schneider-Simpson, Inc. Screed extension assembly for asphalt paving machines. 3,673,930, 7-4-72, Cl. 94-45.00r.
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Bishop, Everett R., to General Electric Company. Closed loop control for stepping motor drive. 3,707,663, 12-26-72, Cl. 318-685.000.
Bishop, Forest M. Lawn mower vertical cutter attachment. 3,693,333, 9-26-72, Cl. 56-16.100.
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Bishop, John F.; Hunter, Walker F., Jr.; and Rowley, Martin E., to Eastman Kodak Company. Readily removable opaque protective layers and articles containing them. 3,677,790, 7-18-72, Cl. 117-33.300.
Bishop, John M.; and Simon, Emmett F., to Conolon Corporation, The. Filament cutoff and holding head. 3,641,859, 2-15-72, Cl. 83-566.
Bishop, John M.; and Simon, Emmett F., to Conolon Corporation, The. Sector gear for rod wrapping machine. 3,642,215, 2-15-72, Cl. 242-7.19.
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Bishop, Stephen G.; Moore, William J.; and Swiggard, Edward M., to United States of America, Navy. Cadmium phosphide laser. 3,638,138, 1-25-72, Cl. 331-94.5.
Bishop, Thomas Desmond, to Deritend Engineering Company, The. Rotary die cutting blanks. 3,705,526, 12-12-72, Cl. 83-698.000.
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Bishop, Walton B., to United States of America, Navy. Reflected IFF interrogation rejector. 3,646,556, 2-29-72, Cl. 343-6.5.
Bishop, Walton B., to United States of America, Navy. Non-main beam reflected IFF interrogation rejector. 3,680,090, 7-25-72, Cl. 343-6.5lc.
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Bither, Tom Allen, Jr., to Du Pont de Nemours, E. I., and Company. Compound $Pd_3P_2S_8$. 3,653,849, 4-4-72, Cl. 23-315.
Bither, Tom Allen, Jr., to Du Pont de Nemours, E. I., and Company. Palladium phosphide chalcogenides. 3,655,348, 4-11-72, Cl. 23-315.
Bitko, Sheldon S., to Fifth Dimension, Inc. Non sticking relay contacts. 3,644,693, 2-22-72, Cl. 200-166.
Bitko, Sheldon S., to Fifth Dimension, Inc. Mercury switch. 3,646,490, 2-29-72, Cl. 335-58.
Bitko, Sheldon S., to Fifth Dimension Inc. Welding head for producing uniform and repeatable resistance welds. 3,674,976, 7-4-72, Cl. 219-86.000.
Bitko, Sheldon S., to Fifth Dimension, Inc. Mercury switch. 3,697,906, 10-10-72, Cl. 335-58.000.
Bitler, Jesse S., to Bell Telephone Laboratories, Incorporated. Space diversity phased array retransmission system using time division. 3,696,421, 10-3-72, Cl. 343-100.0td.
Bitonit, Paul A., to Ross Operating Valve Company. Sequence valve. 3,654,958, 4-11-72, Cl. 137-596.14.
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Bitto, Joseph R.; and Hammel, Clifford M., to Mohawk Data Sciences Corporation. Web feed apparatus with stepping motor drive. 3,644,812, 2-22-72, Cl. 318-254.
Bittorf, Hannjoerg: *See—*
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Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., to University of Illinois Foundation. Radial and circumferential magnetic head positioning mechanism. 3,641,529, 2-8-72, Cl. 340-174.1.
Bitzer, Richard R.; and Reichard, William H., to Gates Rubber Company, The. Polyurethane elastomer rendered anti-static by treatment with iodine. 3,694,413, 9-26-72, Cl. 260-75.0na.
Bitzer, Wolfgang, to Telefunken Patentverwertungsgesellschaft m.b.H. Method and apparatus for synchronizing the transmission of digital signals between ground stations via a communications satellite. 3,646,444, 2-29-72, Cl. 325-58.
Bivans Corporation: *See—*
Bivans, Elbert L.; and Kund, August, 3,665,674.
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Adler, Karl; and Karger, Wolfgang, 3,707,710.
Bixby, Bryan J., to Westinghouse Electric Corporation. Bi-directional direct current detector with transformer isolation. 3,634,875, 1-11-72, Cl. 324-98.
Bixby, Bryan J.; and Paice, Derek A., to Westinghouse Electric Corporation. Pulse control drive system for power transistors. 3,666,971, 5-30-72, Cl. 307-282.
Bixby, Leo A., to North American Rockwell Corporation. Vehicle provided with four wheel drive system. 3,679,016, 7-25-72, Cl. 180-44.000.
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Bixler, George F. Pickup tongs. 3,692,347, 9-19-72, Cl. 294-99.saj.
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Bixler, Harris J., to Amicon Corporation. Electroconductive coating. 3,639,162, 2-1-72, Cl. 117-215.
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Bjelland, John Louis; Flynn, Floyd W.; and Schutt, Norman C., to Powers Chemco, Inc. Vacuum actuated rotary drill. 3,690,780, 9-12-72, Cl. 408-58.000.
Bjerking, Sven-Erik. Reinforcement elements for concrete structures. 3,693,311, 9-26-72, Cl. 52-677.000.
Bjerregaard, Poul. Tightening body for gas dispensers. 3,638,690, 2-1-72, Cl. 171-354.
Bjork, Bengt Anders, to Domkraft AB Nike. Automatic cushioning valve. 3,687,417, 8-29-72, Cl. 254-93.00r.
Bjork, Lars; Erikson, Uno Eugen; and Ingelman, Bjorn Gustav-Adolf. Method for the X-ray visualization of body cavities and a preparation for carrying out the method. 3,678,152, 7-18-72, Cl. 424-5.000.
Bjork, Lars; Erikson, Uno E.; and Ingelman, Bjorn G. A., to Pharmacia AB. Novel 3,5-substituted 2,4,6-triiodobenzoic acids and salts thereof. 3,692,824, 9-19-72, Cl. 260-501.110.
Bjork, Willard L. Door frame brace. 3,648,421, 3-14-72, Cl. 52-99.
Bjorkegren, Lars Gstaf. Roll press comprising two dissimilar rolls with equal deflection characteristics. 3,678,846, 7-25-72, Cl. 100-155.00r.
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Bjorklund, Lowell L., to Illinois Tool Works Inc. Sealing washer. 3,678,979, 7-25-72, Cl. 151-37.000.
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Bjorksten, Johan A., to Griffolyn Company, Incorporated. Sound absorption structures. 3,667,175, 6-6-72, Cl. 52-144.
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Bjorn, Thomas E.; and Morrisett, Ralph W., to Stewart-Warner Corporation. Reversible motor interlock assembly for vehicle wheel spinners and the like. 3,688,590, 9-5-72, Cl. 74-16.000.
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Bjorum, Erick H.; Gibson, John G.; and Lindberg, Morgan C. Automobile door guard. 3,667,163, 6-6-72, Cl. 49-462.000.
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Blaauw, Andrew, to Case, J. I., Company. Implement mounting and lift arrangement. 3,680,880, 8-1-72, Cl. 280-43.170.
Blacbert, John E., to U.S. Dynamics, Inc. Fiche camera device. 3,685,902, 8-22-72, Cl. 355-64.000.
Blachere, Robert; and Sauvage, Michel, to Commissariat a l'Energie Atomique. Sealing device. 3,698,724, 10-17-72, Cl. 277-34.300.
Blachier, Bruno L.; and Champeau, Andre R., to Communications Satellite Corporation. Plural cavity bandpass waveguide filter. 3,697,898, 10-10-72, Cl. 333-21.00a.
Blachly, Donald L.; and Weidner, Jack E., to Oster, John, Manufacturing Co. Liquid heating vessel. 3,678,246, 7-18-72, Cl. 219-437.000.
Blachut, Theodore J.; Smialowski, Antoni J.; Schut, Gerhardus H.; and Carman, Philip D., to Canadian Patents and Development Limited. Orthocartograph. 3,692,405, 9-19-72, Cl. 355-22.000.
Blachut, Theodore J.; Marsik, Zbynek; and Makow, David M. Relief shading apparatus. 3,692,406, 9-19-72, Cl. 355-22.000.
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Black, Charles A., to Detrex Chemical Industries Inc. Percolator distillation system. 3,676,307, 7-11-72, Cl. 203-20.000.
Black, Charles E., III; and Schaad, William J., to Indak Manufacturing Corporation. Electrical switches and turn signal switching systems utilizing the same. 3,686,449, 8-22-72, Cl. 200-11.000.
Black Clawson Company, The: *See—*
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Bowker, John F.; and Odegard, Warren H., 3,698,818.
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Plough, Irving L., 3,680,215.
Black, Colon C., to Sheldon, E. H., and Company. Drawer stop. 3,639,028, 2-1-72, Cl. 312-348.
Black, Daniel A.; Ingersoll, Albert A.; York, Ira Bill Lee; and Jones, David O., to Textron, Inc. Fastening device and method of making same. 3,667,340, 6-6-72, Cl. 85-71.000.
Black, Delbert L. Valve. 3,643,700, 2-22-72, Cl. 137-625.68.
Black, Drummond Steen Poyner. Motor driven vehicular chassis and load carrying platform or container for transport thereby. 3,651,970, 3-28-72, Cl. 214-515.
Black, Ernest P., to Sun Oil Company. Laminating wax. 3,666,744, 5-30-72, Cl. 260-94.90r.
Black, Frank R., Jr.: *See—*
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Black, Herman Wendell; Wright, Richard R.; Fullmer, Don K.; and Naylor, Keith W., 53 1/2% to Black, Herman Wendell and 46 1/2% to Wright, Richard R. Table and suspended chair unit with centering apparatus. 3,658,379, 4-25-72, Cl. 297-157.
Black, Hugh. Tool attachment and method for automatically applying fasteners. 3,693,863, 9-26-72, Cl. 227-127.000.
Black, J. Harold; Reed, Edward W.; and Stant, Vernon C., to American Brands, Inc. Automatic accumulator for cigars. 3,636,363, 1-18-72, Cl. 250-223.
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Black, James A.; and Farwell, Harry Russell, 3,679,112.
Black, James A. Flat bed web press index and registration. 3,650,207, 3-21-72, Cl. 101-115.
Black, James A.; and Farwell, Harry Russell, said Farwell assor. to said Black, James A. Screen washing apparatus. 3,656,493, 4-18-72, Cl. 134-113.
Black, James A.; and Farwell, Harry Russell, to Black, James A. Vacuum belt guiding means. 3,679,112, 7-25-72, Cl. 226-33.000.
Black, James R.; and Gurev, Harold S., to Motorola, Inc. Vertical resistor. 3,680,028, 7-25-72, Cl. 338-308.000.
Black, Jay I., to Avco Corporation. Error compensated fluidic temperature sensor. 3,651,639, 3-28-72, Cl. 60-39.12.
Black, John C.; and Buckley, Frederick, to International Business Machines Corporation. All transistor logic employing transistors of a single conductivity type. 3,648,061, 3-7-72, Cl. 307-218.
Black, Joseph M., to Zenith Radio Corporation. Selective etching process for changing shadow-mask aperture size. 3,653,900, 4-4-72, Cl. 96-36.1.
Black, Leonard J., to Pacific Handy Cutter, Incorporated. Safety razor blade holder. 3,667,122, 6-6-72, Cl. 30-286.
Black Products Co.: *See—*
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Black, Rexford E.: *See—*
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Black, Richard I., to Remington Arms Company, Inc. Rescue light for a life support system. 3,638,258, 2-1-72, Cl. 9-321.
Black, Richard W.; and Evans, Robert F., to Berg Electronics, Inc. Connector block. 3,697,933, 10-10-72, Cl. 339-192.00r.
Black, Robert B. Water heater. 3,645,251, 2-29-72, Cl. 126-359.
Black, Robert B. Water heater. 3,669,079, 6-13-72, Cl. 122-136.00r.
Black, Robert B. Autoclave. 3,681,008, 8-1-72, Cl. 21-93.000.
Black, Robert B. Transparency copying attachment. 3,689,148, 9-5-72, Cl. 335-18.000.
Black, Robert D. Portable waste receptacle. 3,643,266, 2-22-72, Cl. 4-142.
Black, Stewart L.; Childers, Spencer L.; and Bieri, Leonard, Jr., to Vendo Company, The. Recirculation coffee brewer. 3,683,790, 8-15-72, Cl. 99-289.000.
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Black, Thomas J.; and Sawyer, Carl B., to Westermann, Werner F. High speed coin counting and sorting. 3,695,279, 10-3-72, Cl. 133-3.000.
Black, Thomas J.; and Schmitt, Werner H., to Westermann, Werner F. Coin sorting and conveying apparatus. 3,698,537, 10-17-72, Cl. 198-33.0aa.

Black, William Hill, Jr. Punching tool for producing connector nail plates. 3,685,336, 8-22-72, Cl. 72-325.000.

Black, William J.; Holmstrom, William L.; Liess, Richard K.; and Teasdale, Max J., to Caterpillar Tractor Company. Replaceable cutting edge and tooth for earthmoving machines. 3,653,133, 4-4-72, Cl. 37-142.

Black, William Raymond, to Borden Company, The. Urea-aldehyde resin adhesive process. 3,697,355, 10-10-72, Cl. 156-319.000.

Blackburn, Bobby J. Method and apparatus for determining unbalance. 3,678,761, 7-25-72, Cl. 73-457.000.

Blackburn, Denis Edward: *See—*
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Blackburn, Horace D. Container support means. 3,632,072, 1-4-72, Cl. 248-150.

Blackburn, Jack. Methods for producing pavement-like sites. 3,664,241, 5-23-72, Cl. 94-10.

Blackburn, Leonard J. Structure demolition apparatus. 3,705,747, 12-12-72, Cl. 299-70.000.

Blackburn, Marvin H.; and Corwin, Harry L., to Vernon Tool Co., Ltd. Apparatus for expanding tubes. 3,683,481, 8-15-72, Cl. 29-202.00d.

Blackburn, Marvin J., to Vernon Tool Co., Ltd. Automatic lubricating and cooling device for tube expander. 3,693,387, 9-26-72, Cl. 72-41.000.

Blackburn, Richard D., to General Electric Company. High-low voltage level sensor. 3,641,546, 2-8-72, Cl. 340-248.

Blackburn, William A.; and Stevenson, Philip J., to Monsanto Company. Carpet underpad composite. 3,654,063, 4-4-72, Cl. 161-125.

Blackerby, Alfred A. Magnetic sensor having a heat treated housing for collimating the sensor's flux. 3,659,194, 4-25-72, Cl. 324-34.

Blackert, John E.; and Towers, Harvey S., to Xerox Corporation. Microfilm projection apparatus. 3,652,157, 3-28-72, Cl. 355-49.

Blackett, Frank E.; and Sprouse, Jack E. Package insert applicator. 3,686,058, 8-22-72, Cl. 156-571.000.

Blackett, John Harold, to Matburn (Holdings) Limited. Diathermy plate electrode. 3,662,757, 5-16-72, Cl. 128-416.000.

Blackham, Norman; and Read, Mervyn H. H., to Smiths Industries Limited and Smiths Industries Pty. Limited. Movement for instruments. 3,668,520, 6-6-72, Cl. 324-106.000.

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Blackmer, David E., to Instrumentation Laboratory, Inc. Fault sensing instrumentation. 3,661,748, 5-9-72, Cl. 204-195.

Blackmer, David E. RMS circuits with bipolar logarithmic converter. 3,681,618, 8-1-72, Cl. 307-229.000.

Blackmer, David E., to Instrumentation Laboratory, Inc. Sensor instrumentation. 3,694,734, 9-26-72, Cl. 324-29.000.

Blackmer, Dwight: *See—*
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Blackmer, Dwight W.; and Bernier, Robert N., to Wanskuck Company. Reel. 3,680,809, 8-1-72, Cl. 242-118.600.

Blackmon, John G., to Carolina Products, Inc. Purge apparatus for refrigeration system. 3,664,147, 5-23-72, Cl. 62-85.000.

Blackmond, Ronald C., to Robicon Corporation. Multiphase alternating current regulation system for transformer-coupled loads. 3,676,766, 7-11-72, Cl. 323-6.000.

Blackmore, Joseph J.; and Glunt, Perry G. Valved manifold for gauging a plurality of fluid pressures. 3,633,618, 1-11-72, Cl. 137-597.

Blackmore, Kenneth A. E., to Georgia-Pacific Corporation. Process for preparation of a pesticide in dry form. 3,657,446, 4-18-72, Cl. 424-274.

Blackshear, Perry L.; Forstrom, Richard J.; Dorman, Frank D.; and Nicoloff, Demetre M., to University of Minnesota, The Regents of the. Jet pump cardiac replacement and assist device and method of at least partially replacing a disabled right heart. 3,667,69, 6-6-72, Cl. 3-1.

Blackstock, Hoyt A.; and Ross, Nicholas D., to Carnation Company. Particulate food product. 3,689,290, 9-5-72, Cl. 99-140.000.

Blackstock, Thomas A., to United States of America, National Aeronautics and Space Administration. Ferry system. 3,698,659, 10-17-72, Cl. 244-1.0ss.

Blackstone Corporation: *See—*
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Blackstone, John A. Transfer tail clamping apparatus. 3,670,777, 6-20-72, Cl. 139-247.000.

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Blackwell, Clifford D.: *See—*
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Blackwell, Dana J., to Lewis Engineering Company, The. Remote controlled clock reset device. 3,675,410, 7-11-72, Cl. 58-35.00r.

Blackwell Electronics Ind., Co., Ltd.: *See—*
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Blackwell, George T., Jr. Cutter tooth assembly for grinder. 3,642,214, 2-15-72, Cl. 241-191.

Blackwell, John, to Du Pont de Nemours, E. I., and Company. Cationic azo dyes containing naphthacyl ammonium salts. 3,652,532, 3-28-72, Cl. 260-187.

Blackwell, John, to Du Pont de Nemours, E. I., and Company. Uniformly dyed red to green water swellable cellulosic fibers. 3,653,800, 4-4-72, Cl. 8-21.

Blackwell, John, to Du Pont de Nemours, E. I., and Company. Uniformly dyed blue or turquoise water swellable cellulosic fibers. 3,656,880, 4-18-72, Cl. 8-21.

Blackwell, John; Gumprecht, William Henry; and Starn, Roy Emerson, Jr., to Du Pont de Nemours, E. I., and Company. Process of treating water swellable cellulosic materials. 3,656,991, 4-18-72, Cl. 117-33.3.

Blackwell, John, to Du Pont de Nemours, E. I., and Company. Water insoluble blue anthraquinone dyes for cellulosic and synthetic fibers. 3,657,285, 4-18-72, Cl. 260-381.

Blackwell, John; and Toji, Masuo, to Du Pont de Nemours, E. I., and Company. Uniformly dyed yellow to navy blue water swellable cellulosic fibers. 3,667,897, 6-6-72, Cl. 8-21.00c.

Blackwell, John; and Tropea, Alfred, to Du Pont de Nemours, E. I., and Company. Preparation of water-insoluble mono- and disazo dyes. 3,678,028, 7-18-72, Cl. 260-186.000.

Blackwell, John; Gumprecht, William Henry; and Starn, Roy Emerson, Jr., to Du Pont de Nemours, E. I., and Company. Water swollen cellulose dyeing with high molecular weight disperse dye in a glycol ether solution. 3,706,525, 12-19-72, Cl. 8-21.00c.

Blackwell, John; and Wilks, Sherlock Edward, to Du Pont de Nemours, E. I., and Company. Cellulose dyed water while swollen in a glycol bath with anthrapyrimidine dye. 3,707,348, 12-26-72, Cl. 8-21.00c.

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Blackwell, Lyman L., to Statitrol Corporation. Resistance controlled timed pulse generator. 3,673,586, 6-27-72, Cl. 340-237.00s.

Blackwell, Randal L.: *See—*
Byrd, Chester L.; and Blackwell, Randal L., 3,692,203.

Blackwell, Ray E. Pet-door-containing insert unit for a sliding-door frame. 3,654,733, 4-11-72, Cl. 49-168.

Blackwell, Wayne Waldo; Earle, John Goodell; O'Connell, John Joseph; Pierce, Edwin Bruce; and Shabe, John Edward, to International Business Machines Corporation. Catenated files. 3,704,453, 11-28-72, Cl. 340-172.500.

Blackwell, Willis A.: *See—*
Riesbeck, Laverne J.; and Blackwell, Willis A., 3,666,096.

Blackwood, James O.; and Cullis, Brian D., to Commonwealth Scientific and Industrial Research Organization. Production of carbon tetrachloride. 3,697,610, 10-10-72, Cl. 260-664.000.

Bladh, James C., to United States of America, Navy. Anti-swimmer buoy. 3,680,161, 8-1-72, Cl. 9-8.00r.

Blaes, Viggo A.: *See—*
Johnson, Virgil E., Jr.; Scherer, John O., Jr.; Miller, Eugene R.; and Blaes, Viggo A., 3,635,253.

Blagg, Leon. Coupler-aligning trailer hitch. 3,675,947, 7-11-72, Cl. 280-500.000.

Blaha, Eli W., to Standard Oil Company (Indiana). 2-Hydrocarbyldithio-5-mercapto-1,3,4-thiadiazoles and their preparation. 3,663,561, 5-16-72, Cl. 260-302.

Blaha, Emil; and Kitzen, Maurice R., to Selas Corporation of America. Catalytic reactor. 3,656,913, 4-18-72, Cl. 23-288.

Blaha, John F.: *See—*

Kolb, Edwin R.; Blaha, John F.; and Roberts, Webster C., 3,643,251.
Kolb, Edwin R.; Blaha, John F.; and Roberts, Webster C., 3,644,903.
Blaha, Ludvik: *See—*
Weichet, Jaroslav; Blaha, Ludvik; Hodorova, Jarmila; Dlabac, Antonin; and Trcka, Vaclav, 3,637,759.
Blaiklock, Paul M.: *See—*
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Blaiklock, Paul M.; and Kinner, Hans-Dieter, to Fluidic Industries, Inc. Pure fluid device. 3,667,489, 6-6-72, Cl. 137-81.500.
Blaimschein, Gottfried, to GFM Gesellschaft fur Fertigungstechnik und Maschinenbau Aktiengesellschaft. Swaging machine for a continuous swaging of rod-shaped workpieces. 3,690,142, 9-12-72, Cl. 72-402.000.
Blain, William A.: *See—*
Griner, Arthur J.; and Blain, William A., 3,653,335.
Griner, Arthur J.; and Blain, William A., 3,671,163.
Blaine, Harlan P. Method and apparatus for exercising the oculomotor accommodation mechanism of the eyes. 3,687,527, 8-29-72, Cl. 351-39.000.
Blair, Benton: *See—*
Blair, Farnham, 3,639,044.
Blair, Boyd C., to Brackett Stripping Machine Co., Inc. Sheet working machine and feed control apparatus therefor. 3,664,220, 5-23-72, Cl. 83-170.
Blair, Boyd C., to Brackett Stripping Machine Co., Inc. Method for making tablets. 3,668,037, 6-6-72, Cl. 156-267.000.
Blair, Bruce A.: *See—*
Stevens, Roger H.; and Blair, Bruce A., 3,633,547.
Blair, Charles M., Jr., to Magna Corporation. Method of controlling aquatic weeds, and other undesired forms of aquatic life, without adversely affecting fish. 3,690,857, 9-12-72, Cl. 71-66.000.
Blair, Darrell J., to M. & B. Electric Co., Inc. Electric motor with safety sensing device. 3,656,136, 4-11-72, Cl. 340-253.
Blair, Farnham, 1/2 to Blair, Benton. Semi-rimless glasses. 3,639,044, 2-1-72, Cl. 351-103.
Blair, George R.; and Keller, Sherman R., to Hughes Aircraft Company. Method of electropolishing molybdenum. 3,679,559, 7-25-72, Cl. 204-140.500.
Blair, George S.: *See—*
Burrage, Benjamin S.; and Blair, George S., 3,675,760.
Blair, Gerald E.: *See—*
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Blair, James E., to United States of America, Navy. Bomblet. 3,658,004, 4-25-72, Cl. 102-4.000.
Blair, Lesley W. Adjustable drill jig. 3,694,100, 9-26-72, Cl. 408-105.000.
Blair, Lloyd R.: *See—*
Martin, Gregory L.; and Blair, Lloyd R., 3,699,448.
Blair Manufacturing Co., Inc.: *See—*
Ryan, Kelly P., 3,662,800.
Blair, Raymond. Bosal device. 3,657,863, 4-25-72, Cl. 54-6.
Blair, Richard L. Treating liquid waste effluent. 3,674,216, 7-4-72, Cl. 241-18.000.
Blair, Thomas O. Method and tool for everting tubular cloth material. 3,637,119, 1-25-72, Cl. 223-39.
Blair, Thomas O. Underwater oil leakage collecting apparatus. 3,658,181, 4-25-72, Cl. 210-170.
Blair, Walter A.: *See—*
Fortini, Jack G.; Blair, Walter A.; and Grodsky, Gerold M., 3,701,768.
Blair, Winford; and Bubel, Walter L., to Rohr Corporation. Method of forming a honeycomb core panel. 3,656,224, 4-18-72, Cl. 29-471.1.
Blair, Winford, to Rohr Corporation. Brazing stop-off treatment of perforated metal sheets. 3,663,270, 5-16-72, Cl. 117-98.
Blair/Johnson, Inc.: *See—*
Fortini, Jack G.; Blair, Walter A.; and Grodsky, Gerold M., 3,701,768.
Blaisdell, Donald Stapf; and Klaas, Ruth Elizabeth Barry. Method and apparatus for treatment of aqueous liquor. 3,697,420, 10-10-72, Cl. 210-42.000.
Blaisdell, William H.; Cornelius,Edward C.; and Emerson, Howard J., to Eastman Kodak Company. Lens apparatus for inspection system. 3,663,824, 5-16-72, Cl. 250-219.00r.
Blaisdell, William H.; and Cornelius, Edward C., to Eastman Kodak Company. Flying spot scanning. 3,675,016, 7-4-72, Cl. 250-83.30h.
Blaising, Walklett. Overhead sign mounting. 3,691,677, 9-19-72, Cl. 40-128.000.
Blake, Anthony; Halliday, Denis Malcolm; and Woods, Michael Faulkner, to Lever Brothers Company. Ice-cream products. 3,671,268, 6-20-72, Cl. 99-136.000.
Blake, Carl B.; and Tung, George K. L., to Frye Industries, Inc., mesne. Printing ink. 3,673,135, 6-27-72, Cl. 260-17.00a.
Blake, Charles T., to Warner & Swasey Company, The. Machine tool. 3,691,879, 9-19-72, Cl. 82-2.500.
Blake, Darrell N. Perforating machine. 3,698,222, 10-17-72, Cl. 72-129.000.
Blake, Donald E. Method of reaming a rotating pipe. 3,659,482, 5-2-72, Cl. 408-1.
Blake, Edward S., to Monsanto Company. Substituted amides. 3,706,796, 12-19-72, Cl. 260-558.00d.
Blake, Graham John: *See—*
Flint, John Anthony; and Blake, Graham John, 3,699,068.
Blake, Graham John, to Imperial Chemical Industries Limited. Method of reducing the antifreeze concentration in emulsions of vinyl chloride polymers. 3,654,208, 4-4-72, Cl. 260-29.6.
Blake, Henry W.: *See—*
McDonald, Patrick H.; Blake, Henry W.; Myers, Guy A.; Pugh, Claud E.; and Todd, Edward S., 3,633,403.
Blake, John Berchmans; and Ashworth, Roger Anderton, to Allspeeds Holdings Limited. Torque transmitting devices. 3,664,474, 5-23-72, Cl. 192-56.00f.
Blake, Lawrence W.; Bett, Bruce D.; and Lieber, Clement E., to American Hospital Supply Corporation. Method of making multilumen balloon catheter. 3,634,924, 1-18-72, Cl. 29-447.
Blake, Minden Vaughan. Inertia safety belts. 3,649,076, 3-14-72, Cl. 297-386.
Blake, Paul Desmond; Johnston, Roy Douglas; Phelps, Brian; Chapman, Edwin Albert; and Bartlett, Ronald Leonard, to Murex Welding Processes Limited. Arc welding. 3,702,390, 11-7-72, Cl. 219-146.000.
Blake, Ralph Kingsley, to Du Pont de Nemours, E. I., and Company. Metal hexacyanoferrate coated silver halide elements and process for making lithographic images. 3,635,710, 1-18-72, Cl. 96-33.
Blake, Ralph Kingsley, to Du Pont de Nemours, E. I., and Company. Negative image silver transfer development. 3,649,270, 3-14-72, Cl. 96-29.
Blake, Ralph Kingsley; and Overman, Joseph De Witt, to Du Pont de Nemours, E. I., and Company. Nitrogen-containing Dmax maintainers for use in photosoluble emulsions. 3,652,279, 3-28-72, Cl. 96-64.
Blake, Richard K.; and Jotwani, Haresh C., to North Electric Company. Multi-line telephone set with switching capability. 3,665,112, 5-23-72, Cl. 179-99.000.
Blake, Richard K.; De Hilster, Robert J.; and Porter, Warren Wesley, to North Electric Company. Telephone repertory dialer. 3,665,113, 5-23-72, Cl. 179-90.
Blake Rivet Co.: *See—*
Swindt, Joseph K.; and Oelke, Erwin S., 3,641,865.
Blake, Robert J.; and Roy, Guy W., to Stauffer Chemical Company. Oxychlorination of saturated and unsaturated hydrocarbons in the presence of a fluidized catalyst containing lanthanum and didymium. 3,657,367, 4-18-72, Cl. 260-659.
Blake, Stephen, to Pennwalt Corporation, mesne. 1,6-Bis(2-oxacyclohexyl)-hexane-1,6-diones and a process for producing them. 3,676,498, 7-11-72, Cl. 260-586.00r.
Blake, Trevor: *See—*
Klemm, Carl John; Tietz, Richard August; Street, Terrell Ray; and Blake, Trevor, 3,661,577.
Blake, Walter E.: *See—*
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Blakeley, James, to Victaulic Company of America, mesne. Coupling for plastic pipe. 3,695,638, 10-3-72, Cl. 285-112.000.
Blakely, Richard P., to Case, J. I., Company. Hydraulic control linkage for implement. 3,695,474, 10-3-72, Cl. 214-771.000.
Blaker, Bernard: *See—*
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Blakeslee, A. Eugene; Foster, Luther M.; and Plaskett, Thomas S., to United States of America, Army. Method of eliminating copper contamination. 3,673,064, 6-27-72, Cl. 204-147.000.
Blakeslee, Byron Edward; Gajewski, Thaddeus Joseph; and Ishida, Akio, to Johns-Manville Corporation. Electroforming process. 3,649,474, 3-14-72, Cl. 204-6.
Blakeslee, Daniel Leo, to Stacor Visionaire Corporation. Automatic fastening machine. 3,681,842, 8-8-72, Cl. 29-430.000.
Blakeslee, Kenneth L. Electronic sequential switch. 3,699,390, 10-17-72, Cl. 317-16.000.
Blakeway, Carman H.; and Stone, Darold D., to Pacific Gas Equipment Company. Hoisting apparatus. 3,638,804, 2-1-72, Cl. 212-8.
Blakey, Roy, to Girling Limited. Vehicle braking systems. 3,672,729, 6-27-72, Cl. 303-9.000.
Blanc & Co.: *See—*
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Blanc, Bernard: *See—*
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Blanc, Charles; and Joly, Jean, to Societe Rhodiaceta. Process for producing textured thermoplastic yarns. 3,703,754, 11-28-72, Cl. 28-72.140.
Blanc de la Naulte, Philippe; and Ginhoux, Roland, to Comptoir Europeen de Distribution et de Representation. Method for manufacturing articles made of flexible plastic. 3,673,030, 6-27-72, Cl. 156-193.000.
Blanc, Jean: *See—*
Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,686,265.

Blanc, Jean, to Societe Nationale des Petroles d'Aquitaine. Process for the oxidation of unsaturated hydrocarbons. 3,654,354, 4-4-72, Cl. 260-533.

Blanc, Jean-Henry: *See—*
Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean-Henry; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,641,102.
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Blance, Robert B.; and Gardner, Donald, to Monsanto Company. Electrical tape. 3,632,412, 1-4-72, Cl. 117-122.

Blance, Robert B.; and Gardner, Donald M., to Monsanto Company. Class F electrical tape. 3,632,413, 1-4-72, Cl. 117-122.

Blance, Robert B.; Cahill, David R.; and Nachtel, Peter. Novel interpolymer blends. 3,692,878, 9-19-72, Cl. 260-901.000.

Blanch, William O.: *See—*
Wald, Herbert; Young, Harold K.; and Blanch, William O., 3,693,955.
Young, Harold K.; Wald, Herbert; Blanch, William O.; and Meadows, Lacy C., 3,653,544.

Blancha, Erwin B., to General Motors Corporation. Plastic bearing for an airless spray gun. 3,667,681, 6-6-72, Cl. 239-393.000.

Blanchard, Alain; and Faure, Alphonse, to Rhone-Poulenc S.A. Process for effecting absorption or removal of gas from a liquid. 3,651,616, 3-28-72, Cl. 55-16.

Blanchard, Byron E.: *See—*
Westcott, Vernon C.; Blanchard, Byron E.; Davis, Paul A.; and Prevot Stephane, 3,678,742.

Blanchard, Clarence E., to Outboard Marine Corporation. Mechanical arrangement for trimming an outboard motor. 3,688,733, 9-5-72, Cl. 115-41.0ht.

Blanchard, David L.: *See—*
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Blanchard, Eugene J.: *See—*
Lofton, John T.; Harper, Robert J., Jr.; and Blanchard, Eugene J., 3,666,400.
Lofton, John T.; Harper, Robert J., Jr.; and Blanchard, Eugene J., 3,676,207.

Blanchard, Eugene J.; Harper, Robert J., Jr.; Gautreaux, Gloria A.; and Reid, John D., to United States of America, Agriculture. Polyvinylpyrrolidone for improved optical brightener absorption for durable press cellulosic fabrics. 3,658,457, 4-25-72, Cl. 8100.

Blanchard, Eugene J.; Gautreaux, Gloria A.; and Harper, Robert J., Jr., to United States of America, Agriculture. Use of a polymer additive to improve the optical brightener absorption characteristics of durable-press fabrics. 3,702,230, 11-7-72, Cl. 8-100000.

Blanchard, Hugert, to Sidel, Societe Anonyme. Devices for blowing thermoplastic hollow bodies. 3,632,263, 1-4-72, Cl. 18-5.

Blanchard, Hunert, to Sidel, Le Havre. Device for removing bottom scraps of extrusion-blown hollow thermoplastic bodies. 3,667,888, 6-6-72, Cl. 425-307.000.

Blanchard, Joseph Louis, to Compagnie Internationale pour l'Informatique. Magnetic articles. 3,647,400, 3-7-72, Cl. 29-191.

Blanchard, Joseph Louis, to Compagnie Internationale pour l'Informatique. Magnetic memory member. 3,685,029, 8-15-72, Cl. 340-174.0qa.

Blanchard, Robert R.: *See—*
Kropscott, Earle L.; Blanchard, Robert R.; and Schramm, James N., 3,687,873.
Young, Warren L.; Kennedy, James S.; Carnahan, Norman F.; and Blanchard, Robert R., 3,632,848.

Blanchard, Robert R.; and Young, Warren L., to Dow Chemical Company, The. Readily processable, rigid vinyl chloride polymer compositions containing chlorinated olefin polymer wax. 3,682,924, 8-8-72, Cl. 260-28.50d.

Blanchard, Robert R.; Kennedy, James S.; and Roberts, Reginald F., to Dow Chemical Company, The. Process for the dehydrochlorination of chlorinated polyolefins. 3,706,724, 12-19-72, Cl. 260-94.9gd.

Blanchard, Russell T. Collapsible container. 3,700,134, 10-24-72, Cl. 217-12.000.

Blanchard, Walter P. Automatically operated oil separator scum trough. 3,666,102, 5-30-72, Cl. 210-138.

Blanchenot, John P., to International Telephone and Telegraph Corporation. Coaxial cable connector. 3,706,958, 12-19-72, Cl. 339-177.00e.

Blanchet, Charles, to Societe Grenobloise d'Etudes et d'Applications Hydrauliques (SOGREAH). Icebreaker equipment for ships. 3,636,904, 1-25-72, Cl. 114-41.

Blanchet, James P.; Hotes, Charles M.; and Reynolds, Thomas J., to Western Gear Corporation. Pipe tensioning unit. 3,669,329, 6-13-72, Cl. 226-108.000.

Blanchet, Raymond J.; and Stanton, William G., to United States Steel Corporation. Method and apparatus for making twisted stone sawing strands and the like. 3,704,580, 12-5-72, Cl. 57-34.0at.

Blanchette, Robert G.: *See—*
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Blanchette, Robert G., to Addressograph-Multigraph Corporation. Cumulene containing photoconductive binder elements for use in electrophotography. 3,674,473, 7-4-72, Cl. 96-1.500.

Blanchfield, Richard J.; and Smith, John F., to Standard Chemical Limited. Chlorate cell. 3,639,223, 2-1-72, Cl. 204-95.

Blanck, Hillard: *See—*
Prince, Martin; Blanck, Hillard; and Tarancon, Gregorio, 3,667,191.

Blanco, Antonio Lopez, to Europote S.A. Process for coating paper by moulding. 3,687,711, 8-29-72, Cl. 117-64.00c.

Blanco, Francisco. Smoker's pipe. 3,662,764, 5-16-72, Cl. 131-207.000.

Blanco, Victor M. Protective surgical sleeve. 3,657,741, 4-25-72, Cl. 2-59.

Blancquart, Pierre, to Societe a Responsabilite Limitee Doittau Products Metallurgie. Method of applying a thermal insulating coating to an ingor wall. 3,687,700, 8-29-72, Cl. 117-5.100.

Bland, George F. Binary data transmission system and clocking means therefor. 3,688,036, 8-29-72, Cl. 178-68.000.

Bland, John: *See—*
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Bland, Ray A.: *See—*
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Blandin Paper Company: *See—*
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Blanding, John E.; Trageser, Edmund C.; and Harrington, James Vincent, to General Dynamics Corporation. Underwater drilling methods and apparatus. 3,661,204, 5-9-72, Cl. 166-.5.

Blandy, William. Impregnated corrugated board. 3,691,002, 9-12-72, Cl. 161-137.000.

Blane, Henry R., to Sperry Rand Corporation. Pulse-to-pulse instantaneous automatic gain control circuit. 3,704,421, 11-28-72, Cl. 325-408.000.

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Blanie, Marie Jean Michel Paul; Ramis, Jean; and Robert, Henri R., to Societe Civile d'Inventions Idees. Proportioning valve for a pressurized dispenser. 3,705,667, 12-12-72, Cl. 222-136.000.

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Blank, Benjamin; and Zuccarello, William A., to Smith Kline & French Laboratories. Anti-adrenal compositions comprising triphenylprpyl amines. 3,644,648, 2-22-72, Cl. 424-330.

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Blank, Fritz; Day, William C.; Harmon, Sandra R.; Toncic, Pauline F.; and Yu, Ruey J., to Temple University. Keratinolytic enzyme isolated from trichophyton mentagorphytes and process therefor. 3,674,645, 7-4-72, Cl. 195-66.00r.

Blank, Gunter; and Kramer, Erwin, to Siemens Aktiengesellschaft. Apparatus for centrifugal separation of two-phase mixtures. 3,633,344, 1-11-72, Cl. 55-349.

Blank, Hans G.; and Greene, Richard M., to GTE Laboratories Incorporated. All-FET digital-to-analog converter. 3,643,253, 2-15-72, Cl. 340-347.

Blank, Wallace J., to Oshkosh Truck Corporation. Powershift transmission. 3,675,508, 7-11-72, Cl. 74-745.000.

Blank, Werner Josef; and Koral, Jerry Norman, to American Cyanamid Company. Modified non-gelled alkyd resin composition and process for its preparation. 3,692,717, 9-19-72, Cl. 260-21.000.

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Blankenship, Ernest Bayne. Automatic incinerating urinal. 3,649,970, 3-21-72, Cl. 4-131.

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Blaschke, Felix; and Hutter, Gerhard, to Siemens Aktiengesellschaft. Smoothing circuit for smoothing pulsating direct voltages. 3,636,459, 1-18-72, Cl. 328-127.
Blaschke, Franz: *See—*
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Blatchford, John K.; Peterson, Edward C.; and Burda, Jan C., to Whirlpool Corporation. Method of making a heating element. 3,679,473, 7-25-72, Cl. 117-212.000.
Blatchford, John K.; Peterson, Edward C.; and Burda, Jan C., to Whirlpool Corporation. Heating element and method of making. 3,694,627, 9-26-72, Cl. 219-543.000.
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Blatt, Leland F. Shielded air hose swivel with safety push button disconnect. 3,640,553, 2-8-72, Cl. 285-277.
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Blatt, Leland F. Pressure safety release industrial air exhaust silencer. 3,675,733, 7-11-72, Cl. 181-37.000.
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Blatter, Albert, to Bendix Corporation, The. Fluidic viscometer. 3,678,733, 7-25-72, Cl. 73-54.000.
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Blatter, Johannes Reinier, to U.S. Philips Corporation. Cathode-system in which the cathode is supported by prestressed wires. 3,681,643, 8-1-72, Cl. 313-337.000.
Blatter, Max. Apparatus for reconditioning liquids contaminated with microorganisms. 3,682,314, 8-8-72, Cl. 210-199.000.
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Blattmann, Henri; Javellaud, Jean; and Yerouchaimi, David, to Commissariat a l'Energie Atomique. Composite walls for MHD-generator ducts. 3,660,701, 5-2-72, Cl. 310-11.000.
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Blattner, Hans; and Schindler, Walter; deceased (by Gysin, Leonard, Dr.; executor and legal representative), to Ciba-Geigy Corporation. Derivatives of dibenzo [b,f]pyrrolo[3,4-d] azepine. 3,636,046, 1-18-72, Cl. 260-326.9.
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Blattner, Karl. Automatic drawing machine. 3,648,583, 3-14-72, Cl. 95-12.
Blattner, Raymond J., to Dresser Industries, Inc. Torque measuring hand screwdriver. 3,678,744, 7-25-72, Cl. 73-139.000.
Blattry, Hans; and Kimm, Wolfgang, to Forkardt, Paul, Kommanditgesellschaft. Chuck for turning machines. 3,656,773, 4-18-72, Cl. 279-121.
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Blau, Werner; and Gerdes, Theo. Screw-on closure cap. 3,666,137, 5-30-72, Cl. 220-39.
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Bleibtreu, Alexander; and Neumayer, Josef. Drive release and positive stop device. 3,635,319, 1-18-72, Cl. 192-28.
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Bleile, Robert F. Staple for sod and erosion control mattings. 3,706,115, 12-19-72, Cl. 24-87.00c.
Bleiman, Lewis W., to SLI Industries. Head positioning apparatus. 3,646,536, 2-29-72, Cl. 340-174.1.
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Bloch, Herman S., to Universal Oil Products Company. Multicomponent dehydrogenation catalyst. 3,682,838, 8-8-72, Cl. 252-464.000.
Bloch, James E., to Control Data Corporation. Winding fixture. 3,646,658, 3-7-72, Cl. 29-205.
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Blocher, Clarence J., to Miller, Frank, & Sons, Inc. Sawdust material with quaternary ammonium halide odor-retardant. 3,632,514, 1-4-72, Cl. 252-88.
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Burmaster, Neal C.; Harbolt, Bruce A.; and Block, Delbert W., 3,661,190.

Block, Donald Edmund; and Alexakis, Nicholas George, to Digital Data Systems, Inc., mesne. Method and apparatus for the transmission of acquired data in the form of magnitude representing signals and signals representing changes of scale of magnitude. 3,65,210, 7-4-72, Cl. 340-172.500.

Block Drug Company, Inc.: *See—*
Rosenthal, Murray W., 3,657,413.

Block Engineering, Inc.: *See—*
Hirschfeld, Tomas; and Matsu, Noboru, 3,697,226.

Block, Ernest P., to Sun Oil Company. Laminate bonded with an adhesive waxy telomer of ethylene on pseudocumene. 3,666,618, 5-30-72, Cl. 161-235.000.

Block, Fred B.: *See—*
Clarke, Frank H., Jr.; Block, Fred B.; and Kofron, William G., 3,639,407.

Block, Fred B.; and Schroder, Arthur H. 1-Oxygenated-6-acyl-1,2,3,4,5,6-hexohydro-2, 6-methano-3-benzucines. 3,687,957, 8-29-72, Cl. 260-293.540.

Block, George P., to Carstens Health Industries, Inc., mesne. Folding walker. 3,658,079, 4-25-72, Cl. 135-45.

Block, Hans-Jurgen: *See—*
Netzer, Theodor; and Block, Hans-Jurgen, 3,676,233.

Block, Irwin H.: *See—*
Altman, Murray; Craig, Mordecai R.; and Block, Irwin H., 3,640,010.

Block, Jacob: *See—*
McKenney, Robert Lee, Jr.; and Block, Jacob, 3,673,101.
Patil, Arvind S.; Icraus, John W.; and Block, Jacob, 3,677,939.

Block, James P., to LCOA Laminating Company of America. Laminated board and method of making same. 3,700,341, 10-24-72, Cl. 408-1.000.

Block, Leonard A.; and Dunn, William J., to Quaker Industries Inc. Shelving structure. 3,677,416, 7-18-72, Cl. 211-148.000.

Block, Lester W. Adjustable swim and sun suit panty garment. 3,654,630, 4-11-72, Cl. 2-67.

Block, Michael J., to Union Oil Company of California. Preparation of free-flowing sulfur composition. 3,661,530, 5-9-72, Cl. 23-224.

Block, Michael J., to Union Oil Company of California. Method for producing insoluble sulfur. 3,689,227, 9-5-72, Cl. 23-293.000.

Block, Seymour S.: *See—*
Schuller, Walter H.; Minor, Jacob C.; Block, Seymour S.; and Lawrence, Ray V., 3,636,215.
Takeda, Hiroshi; Schuller, Walter H.; Lawrence, Ray V.; and Block, Seymour S., 3,663,593.
Takeda, Hiroshi; Schuller, Walter H.; Lawrence, Ray V.; and Block, Seymour S., 3,706,762.

Block, William M.: *See—*
Barnes, Robert L.; Block, William M.; and Grafstein, Danel, 3,671,489.

Blocker, Edwin W.: *See—*
Paul, Roy D.; and Blocker, Edwin W., 3,658,581.

Blockhead, Inc.: *See—*
Friedman, Morris, 3,658,174.

Blockils, Inc.: *See—*
Cunningham, Gerald A., 3,705,708.

Blockley, Walter Vincent: *See—*
Friedlander, Sidney Lee; and Blockley, Walter Vincent, 3,643,463.

Blockley, Walter Vincent. Electrode apparatus for exercisor handlebar. 3,702,113, 11-7-72, Cl. 128-2.06e.

Blodger, John D.; and MacGugan, Ian, to Wyandotte Chemicals Corporation. Shrinkproofing wool fabrics. 3,657,002, 4-18-72, Cl. 117-141.

Blodgett, Norman S.: *See—*
Haines, William B., 3,635,441.

Blodgett, Stewart B. Method and apparatus for controlling product charge weights. 3,643,752, 2-22-72, Cl. 177-122.

Blodgett, William Edward: *See—*
Wallick, Claude Rollin, Jr.; Blodgett, William Edward; and Lazor, Donald Keith, 3,664,799.

Bloedel, MacMillan Limited: *See—*
Worster, Hans Edmund; and Pudek, Marian Franciszek, 3,691,008.

Bloemer, John W., to Eaton Yale & Towne, Inc. Automatic precharge adjuster. 3,672,402, 6-27-72, Cl. 138-31.000.

Blohm & Voss AG: *See—*
Krakow, Heinz; and Niedorf, Carl, 3,698,622.

Blohm, Thomas R.: *See—*
Palopoli, Frank P.; Blohm, Thomas R.; and Kariya, Takashi, 3,647,863.
Tilford, Charles H.; Blohm, Thomas R.; and MacKenzie, Robert D., 3,641,155.

Blohm, William A., to Mi Con Gunite Equipment, Inc. Compressible tube valve. 3,693,932, 9-26-72, Cl. 251-6.000.

Bloice, John Anthony, to Memco (Electronics) Limited. Detection of movement in confined spaces. 3,691,556, 9-12-72, Cl. 343-5.0pd.

Blok, Petrus; and Viersma, Taco Jan. Equipment for aiding cardiovascular circulation. 3,654,918, 4-11-72, Cl. 128-33.

Blom, Bengt Gordon Teodor: *See—*
Kalb, Lennart Reinhold; Olsson, Karl Gustav; and Blom, Bengt Gordon Teodor, 3,641,960.

Blom, Dirk; Van Overbeek, Adrianus Johannes Wilhelmus Marie; and Zwijsen, Wilhelmus Antonius Joseph Marie, to U.S. Philips Corporation. Linear amplifier circuit. 3,678,404, 7-18-72, Cl. 330-22.000.

Blom-Bakke, Arne. Aircraft instruments. 3,668,933, 6-13-72, Cl. 73-386.000.

Blomberg, Erling G. E. Arrangement in flexible fences for enclosing impurities floating on water. 3,686,870, 8-29-72, Cl. 61-1.00f.

Blomberg, Erwin L., to General Mills, Inc. Whip topping. 3,656,972, 4-18-72, Cl. 99-139.

Blomberg, Peter Erik; and Enger, Lars Sivert, to Aktiebolaget Electrolux. Absorption refrigeration apparatus of the inert gas type. 3,681,938, 8-8-72, Cl. 62-490.000.

Blomberg, Richard N., to Du Pont de Nemours, E. I., and Company. Poly(1,4-benzamide)particles and the preparation thereof. 3,652,510, 3-28-72, Cl. 260-78.

Blomberg, Richard N., to Du Pont de Nemours, E. I., and Company. Chain terminated polyhexamethylene adipamide. 3,684,775, 8-15-72, Cl. 260-78.00r.

Blomberger Holzindustrie B. Hausmann KG: *See—*
Hausmann, Bernhard, 3,654,010.

Blome, Eugene R.: *See—*
Zinniel, Francis R.; Blome, Eugene R.; and Kimball, Philip D., 3,637,639.

Blome, Eugene R., to Fairchild Camera and Instrument Corporation. Multilayer antireflective absorption film. 3,698,928, 10-17-72, Cl. 117-45.000.

Blomenkamp, Robert W.; and Klein, Enrique J., said Blomemkamp assor. to said Klein, Enrique J. System for automatically sensing and inducating the acceleration and deceleration of a vehicle. 3,634,792, 1-11-72, Cl. 340-52.

Blomfield, Rodney A., to Diamond Shamrock Corporation. Anti soil redeposition composition for drycleaning. 3,707,508, 12-26-72, Cl. 252-162.000.

Blomgren, Evert: *See—*
Apstein, Maurice; Blomgren, Evert; Keehn, George R.; Andrews, Laurence M.; and Rabinow, Jacob, 3,698,323.

Blomgren, Oscar C., Jr.: *See—*
Blomgren, Oscar C., Sr.; and Blomgren, Oscar C., Jr., 3,670,606.

Blomgren, Oscar C., Jr., to Inter-Probe, Inc. Electrostatic fuel filter. 3,697,411, 10-10-72, Cl. 204-302.000.

Blomgren, Oscar C., Sr.; and Blomgren, Oscar C., Jr., to Inter-Probe, Inc. Method and apparatus for cooling the workpiece and/or the cutting tools of a machining apparatus. 3,670,606, 6-20-72, Cl. 82-1.00c.

Blommendaal, Ronald, to Christiaan Huygenslaboratorium N.V. Direction finding device. 3,670,332, 6-13-72, Cl. 343-16.00r.

Blommers, Elizabeth, to Koppers Company, Inc. Reinforced foam polystyrene laminate. 3,676,284, 7-11-72, Cl. 161-93.000.

Blomquist, Alfred P.; Kaza, Kameswar R.; and Egrikavuk, Ismail Y., to Chrysler Corporation. Hydrodynamic transmission. 3,631,744, 1-4-72, Cl. 74-868.

Blomquist, Arnold W., to Sci-Med, Inc., mesne. Detection system for insecticides. 3,675,490, 7-11-72, Cl. 73-425.000.

Blomquist, Bo Sergius B., to Hyresgasternas Sparkasse-och Byggnadsforeningars Riksforbund u.p.a. Method of joining corners between plastic-covered wooden sections. 3,657,037, 4-18-72, Cl. 156-92.

Blomqvist, Nils Verner: *See—*
Croon, Ingemar Liss-Albin; and Blomqvist, Nils Verner, 3,700,549.
Grafstrom, Stig Olof; and Blomqvist, Nils Verner, 3,645,456.

Blonar, James A. Body tilting mechanism. 3,689,108, 9-5-72, Cl. 280-438.00a.

Blondel, Alain; and Jammet, Jean-Firmin, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Electrochemical cells with lithium anode. 3,663,721, 5-16-72, Cl. 136-6.000.

Blonder, Fred D.: *See—*
Higginbotham, Roy F.; Blonder, Fred D.; and Snyder, David E., 3,639,730.

Blonsky, Joseph E., to American Pulpwood Association. Grapple. 3,637,250, 1-25-72, Cl. 294-88.

Blonsky, Joseph E., to American Pulpwood Association. Tree harvesting device and method. 3,698,457, 10-17-72, Cl. 144-34.00r.

Blood, Alden E.: *See—*
Albers, Kenneth H.; Blood, Alden E.; and Snapp, Thomas C., Jr., 3,652,501.
Snapp, Thomas C.; and Blood, Alden E., 3,645,941.
Snapp, Thomas Carter, Jr.; Blood, Alden E.; and Hagemeyer, Hugh John, Jr., 3,701,798.

Blood, Lewis H. Sling and board for carrying canoes, small boats and outboard motors. 3,659,760, 5-2-72, Cl. 224-25.

Blood, Ned: *See—*
Lov, William L.; and Blood, Ned, 3,653,116.

Blood, Raymond; and Strong, Barry Colin, to William Cotton Limited. Straight bar knitting machines. 3,641,789, 2-15-72, Cl. 66-96.
Bloodgood, John F.: *See—*
Anger, Ernest G.; Richards, Giles J.; Bloodgood, John F.; and Geiger, Roy J., 3,686,556.
Bloom, Albert, to Industrial Dyestuff Company. Diazo-oxides of sulfonic acid amides and/or esters and photographic element and use thereof. 3,687,663, 8-29-72, Cl. 96-33.000.
Bloom, Carl, to Worthington Compressor and Engine International; division of Worthington Corporation. Suction pressure relieving system for a rotary vane compressor. 3,632,231, 1-4-72, Cl. 417-295.
Bloom, Carl, to Worthington Corporation. Multistage liquid and gas separator. 3,654,748, 4-11-72, Cl. 55-322.
Bloom, Carl, to Worthington Corporation. Multistage liquid and gas separator. 3,707,068, 12-26-72, Cl. 55-337.000.
Bloom, Dalton E.: *See—*
Lee, Jimmy D., 3,637,019.
Bloom, Duane N.: *See—*
Stevens, Douglas N.; Bisque, Ramond E.; and Bloom, Duane N., 3,644,094.
Bloom Engineering Company, Inc.: *See—*
Brungraber, Louis E.; and Rudin, Walter, 3,647,194.
Rudin, Walter, 3,688,760.
Bloom, John A.: *See—*
Wakefield, Gene F.; Reedy, Carl D., Jr.; and Bloom, John A., 3,637,320.
Bloom, John A.; Spruill, Durward L.; and Wakefield, Gene F., to Texas Instruments, Incorporated. Apparatus for forming a refractory coating on the inner periphery of a tubular object. 3,654,895, 4-11-72, Cl. 118-48.
Bloom, Joseph Lewis, to Lucas, Joseph, (Industries) Limited. Bellows unit. 3,653,300, 4-4-72, Cl. 92-13.2.
Bloom, Leonard: *See—*
Rebold, Jerome I., 3,653,377.
Bloom, Leonard, to Black and Decker Manufacturing Company, The. Power-operated lawnmower with improved discharge means. 3,667,199, 6-6-72, Cl. 56-320.200.
Bloom, Martin S., to Imperial Chemical Industries Limited. Lapping and aligning of profiled sheets. 3,693,966, 9-26-72, Cl. 271-1.000.
Bloom, Melvin S.; and Merrill, Stewart H., to Eastman Kodak Company. Polyarylalkane-terminated, solvent-resistant polycarbonate resins as photoconductors. 3,660,083, 5-2-72, Cl. 96-1.500.
Bloom, Ray Albert: *See—*
Whisler, Howard E.; Shah, Bhupendra Umedchand; Jeskey, Gerald Vernon; and Bloom, Ray Albert, 3,703,924.
Bloom, Robert W.: *See—*
Clark, Alonzo R.; and Bloom, Robert W., 3,657,523.
Bloom, Roy C.: *See—*
Eldridge, Merle K.; Bloom, Roy C.; and Joseph, Douglas C., 3,671,248.
Bloom, Stanley L., to Peerless Industries, Inc. Pipe joint. 3,682,503, 8-8-72, Cl. 285-345.000.
Bloom, Stanley M.: *See—*
Land, Edwin H.; Bloom, Stanley M.; and Farney, Leonard C., 3,704,126.
Bloom, Stanley M.; and Lambert, Ronald F., to Polaroid Corporation. Process for preparing (2,5-dihydroxyphenyl) diphenyl phosphine. 3,644,530, 2-22-72, Cl. 260-606.5.
Bloom, Stanley M., to Polaroid Corporation. Photographic processes and products using 4,8-diamino substituted 1,5-naphthoquinone dye developers. 3,666,469, 5-30-72, Cl. 96-66.
Bloom, Stanley M.; and Garcia, Paulina P., to Polaroid Corporation. Novel dipyrrylmethene dyes. 3,691,161, 9-12-72, Cl. 260-240.700.
Bloom, Stanley M.; Borror, Alan L.; Huyffer, Paul S.; and Macgregor, Paul T., to Polaroid Corporation. Diffusion transfer photographic processes and elements utilizing pH-sensitive agents to prevent fogging by extraneous actinic radiation during development. 3,702,244, 11-7-72, Cl. 96-3.000.
Bloom, Stanley Morton, to Polaroid Corporation. Plastic optical elements. 3,687,862, 8-29-72, Cl. 252-300.000.
Bloom, William M., to Allegheny Ludlum Steel Corporation. Apparatus for quenching coils. 3,662,997, 5-16-72, Cl. 266-6.
Bloom, William M., to Allegheny Ludlum Industries, Inc. Conveyor roll. 3,677,394, 7-18-72, Cl. 198-127.000.
Bloomer, David John, to Hawker Siddeley Dynamics Limited. Automatic test equipment utilizing a matrix of digital differential analyzer integrators to generate interrogation signals. 3,694,632, 9-26-72, Cl. 235-150.530.
Bloomer, Richard: *See—*
Serrie, Shelagh; Mc Grady, Seamus; and Bloomer, Richard, 3,680,229.
Bloomer, Ward J.: *See—*
Sze, Morgan C.; Bauer, William V.; Long, Raymond H.; Bloomer, Ward J.; and Whitehead, Richard T., 3,642,465.
Bloomer-Fiske, Inc.: *See—*
Neubeck, William H., Jr., 3,674,163.
Bloomfield, David P.; and Olsson, William J., to United Aircraft Corporation. Combined water removal and hydrogen generation fuel cell powerplant. 3,649,360, 3-14-72, Cl. 136-86.
Bloomfield, George Vincent, to Brico Engineering Limited. Fuel injection systems for internal combustion engines. 3,705,572, 12-12-72, Cl. 123-139.0aw.
Bloomfield, Harold; and Purpura, August C., to Bloomfield Industries, Inc. Decanter lid assembly. 3,632,025, 1-4-72, Cl. 222-472.
Bloomfield, Harold; and Roberts, Melvin F., to Bloomfield Industries, Inc. Utility wheel-bearing carts. 3,698,735, 10-17-72, Cl. 280-47.350.
Bloomfield Industries, Inc.: *See—*
Bloomfield, Harold; and Purpura, August C., 3,632,025.
Bloomfield, Harold; and Roberts, Melvin F., 3,698,735.
Bloomfield, John J. Stratfield-charge engine and fuel ignition-injection plug therefor. 3,665,902, 5-30-72, Cl. 123-32.0st.
Bloomfield, Roger D., to Uniflo Systems Company. Valve for levitated vehicle track. 3,685,788, 8-22-72, Cl. 251-28.000.
Bloomfield Valve Corporation: *See—*
Wolfson, Joseph, 3,677,286.
Bloomquist, Arnold Eugene: *See—*
Slagel, Robert Clayton; and Bloomquist, Arnold Eugene, 3,654,994.
Bloomquist, Evert V.; and Bloomquist, Gerald E. Key lock assembly for a pair of relatively movable members. 3,679,246, 7-25-72, Cl. 287-52.050.
Bloomquist, Gerald E.: *See—*
Bloomquist, Evert V.; and Bloomquist, Gerald E., 3,679,246.
Bloomquist, Wilburn M.: *See—*
Sabatka, Winston E.; Bloomquist, Wilburn M.; and Reinke, Raymond W., 3,643,670.
Blore, James H., to Phillips Fibers Corporation. Panty-hose. 3,701,164, 10-31-72, Cl. 2-224.00r.
Blosch, Walter, to Liss S.A. Method for producing dials. 3,677,793, 7-18-72, Cl. 117-38.000.
Blose, James H.; Pinell, William F.; and Talvalkar, Shashikant G., to National Cash Register Company, The. Thermal transfer medium for producing scratch and smudge resistant marks. 3,663,278, 5-16-72, Cl. 117-234.000.
Blose, James H.; and Talvalkar, Shashikant G., to National Cash Register Company, The. Heat sensitive record material. 3,674,535, 7-4-72, Cl. 117-36.800.
Blose, John B. Communications system for electric power utility. 3,702,460, 11-7-72, Cl. 340-150.000.
Blose, Werner, to Schlegel Manufacturing Company, The. Edge protector, moulding or beading. 3,685,231, 8-22-72, Cl. 52-716.000.
Blosser, Robert W.; and Richard, Gordon L. Welding aid attachment. 3,662,148, 5-9-72, Cl. 219-136.
Blossick, Raymond B.; and Meier, Robert A., to Armstrong Cork Company. Chemical machining process. 3,668,029, 6-6-72, Cl. 156-11.
Blossom, Armond L.: *See—*
Goodgion, James C.; and Blossom, Armond L., 3,656,470.
Goodgion, James C.; and Blossom, Armond L., 3,685,577.
Blossom, Frank M., to Donnelley, Reuben H., Corporation. Envelope window holder for an inserter and method. 3,667,189, 6-6-72, Cl. 53-29.
Blossom, Raymond W.; and Charkey, Allen, to Yardney International Corporation. Method of making an alkaline impregnated electrode. 3,655,451, 4-11-72, Cl. 136-126.
Blouch, Eric L.: *See—*
Bergey, John M.; Blouch, Eric L.; and Walton, Richard S., 3,701,249.
Bloudoff, Peter S., to Armco Steel Corporation. Friction anchor for fluid operated downwell pumps. 3,666,378, 5-30-72, Cl. 417-358.
Blough, Arthur K.: *See—*
Goss, Norman P., 3,689,251.
Blough, Ronald S.; and Curry, Norval, to Fairfield Engineering & Manufacturing Company. Livestock confinement house with improved environmental control. 3,677,229, 7-18-72, Cl. 119-16.000.
Blough, Ronald S., to Fairfield Engineering & Manufacturing Company. Livestock drinking device. 3,677,231, 7-18-72, Cl. 119-75.000.
Blount, Charles, Jr.; and Crandall, Nelson, to United Piece Dye Works, The. Winch apparatus for treating material in strand form. 3,640,102, 2-8-72, Cl. 68-176.
Blount, Elmo M., to Mobil Oil Corporation. Process for maintaining thermal conductivity of insulation in permafrost completion. 3,642,065, 2-15-72, Cl. 166-244.
Blount, Elmo M.; Snavely, Earl S., Jr.; Messenger, Joseph U.; and Prueger, Nicolas J., to Mobil Oil Corporation. Permafrost completion. 3,677,340, 7-18-72, Cl. 166-1.000.
Blount, Elmo M.; and Prueger, Nicolas J., to Mobil Oil Corporation. Well completion systems. 3,695,358, 10-3-72, Cl. 166-302.000.
Blount, Floyd E.; and Allen, Wallace B., to Mobil Oil Corporation. Cathodic protection system and delay-activation anode. 3,689,395, 9-5-72, Cl. 204-197.000.
Blount, George W., to New Century Products, Inc. Hinged cover construction for a water closet. 3,670,441, 6-20-72, Cl. 4-236.000.

Blount, Lester L.; and Thomas, Leonard L. Smoker's withdrawal kit. 3,636,960, 1-25-72, Cl. 131-187.

Blount, Richard, to General Electric Company. Mounting bracket for photographic flashguns. 3,636,342, 1-18-72, Cl. 240-52.1.

Blount, Walter H., to Midland-Ross Corporation. Bleeding seal. 3,686,866, 8-29-72, Cl. 60-54.60r.

Blouri, Byouk: *See—*
Rumpf, Paul; and Blouri, Byouk, 3,705,926.

Blout, Bennett O., to Amsted Industries Incorporated. Projected area fluid spring or actuator. 3,633,899, 1-11-72, Cl. 267-122.

Blow, Robert H., Jr., to General Motors Corporation. Timer-operated car starter. 3,685,606, 8-22-72, Cl. 180-114.000.

Blow-Knox Foundry & Mill Machinery, Inc.: *See—*
Feuer, Michael M.; and Kotler, Richard G., 3,679,150.

Blower Application Company: *See—*
Panning, Artin R., 3,685,437.

Blower, Warren A.; Janke, Gilbert J.; and Abraham, Edward D., to Sherwin-Williams Company, The. Rotatable cantilevered shell molding machine. 3,682,230, 8-8-72, Cl. 164-165.000.

Blowers, William L., to Kollmorgen Corporation. Temperature-controlled integrated circuits. 3,703,651, 11-21-72, Cl. 307-310.000.

Bloxwick Lock and Stamping Company Limited, The: *See—*
Morris, Barry S., 3,661,412.

Blu-Ray, Incorporated: *See—*
McPherson, Patrick F., 3,683,310.

Blubaugh, Robert L.; Ruckle, Robert A.; and Watts, Hubert J., to Continental Oil Company. Method and apparatus for optical alignment of industrial equipment. 3,704,522, 12-5-72, Cl. 33-286.000.

Blucher, Reinhart, to U.S. Philips Corporation. Method and circuit arrangement for the recognition of characters. 3,668,636, 6-6-72, Cl. 340-146.3ae.

Blue, Donald E. Portable band saw. 3,668,961, 6-13-72, Cl. 83-201.040.

Blue Giant Equipment of Canada Limited: *See—*
Larsen, Kurt K., 3,638,961.

Blue, James W.; Smith, Wayne R.; and Sodd, Vincent J., to United States of America, National Aeronautics and Space Administration. Production of high purity ^{123} I. 3,694,313, 9-26-72, Cl. 176-11.000.

Blue, Louis D., to Essex Chemical Corporation. Bobbin sleeve for winding of textile fibers. 3,643,888, 2-22-72, Cl. 242-118.32.

Blue M Electric Company: *See—*
Bare, Duward J.; and Penk, Chester S., 3,632,985.

Blue, Philip L., to Mallory, P. R., & Co., Inc. Method of making electrical contact materials. 3,685,134, 8-22-72, Cl. 29-420.500.

Blueberry Equipment, Inc.: *See—*
Patzlaff, Albert W., 3,703,072.

Bluegate Candle Company: *See—*
Mathews, Mitzi R., 3,649,151.

Bluem, Gary Raymond: *See—*
Crow, Herman L.; Lu Conic, Andrew; Maloney, Patrick Martin; and Bluem, Gary Raymond, 3,643,048.
Lu Conic, Andrew; Maloney, Patrick Martin; and Bluem, Gary Raymond, 3,643,049.

Bluem, Gary Raymond, to Kroy Industries, Inc. Roller-band device with over-center means. 3,651,291, 3-21-72, Cl. 200-67.

Bluemke, John A. Preparation of cheese and pie fillings. 3,666,493, 5-30-72, Cl. 99-139.000.

Blues, Ernest T.: *See—*
Bryce-Smith, Derek; and Blues, Ernest T., 3,647,720.

Bluestein, Allen C.; and Grossman, Richard F., to Reichhold Chemicals, Inc. Polymeric compositions and method of preparation. 3,661,877, 5-9-72, Cl. 260-86.7.

Bluestein, Bernard B., to Sunbeam Corporation. Steaming apparatus with removable brush. 3,675,449, 7-11-72, Cl. 68-222.000.

Bluestein, Bernard R.: *See—*
Muller, Thomas C.; Nelson, Lawrence B.; and Bluestein, Bernard R., 3,657,347.

Bluestein, Bernard R.; and Solomon, Jack M., to Witco Chemical Company, Inc. Vapor phase process for production of N,N'-disubstituted piperazines. 3,647,795, 3-7-72, Cl. 260-268.

Bluestein, Claire: *See—*
Clark, John R.; and Bluestein, Claire, 3,654,323.

Bluestone, Henry: *See—*
Retallick, Lawrence A.; Limpel, Lawrence E.; and Bluestone, Henry, 3,663,664.

Bluethman, Robert G.; Goldsberry, Paul E.; McConnell, Robert L.; and Simpson, Jack W., to International Business Machines Corporation. Proportional spacing visual editing system. 3,654,609, 4-4-72, Cl. 340-172.5.

Bluethman, Robert G.; and Simpson, Jack W., to International Business Machines Corporation. Visual editing system incorporated controls for justifying and dejustifying displayed text. 3,654,611, 4-4-72, Cl. 340-172.5.

Bluhm, Herbert J.; and Fluck, Eugene R., to Reynolds, R. J., Tobacco Company. 1,3,3,4,4-pentasubstituted pyrrolidines. 3,674,806, 7-4-72, Cl. 260-326.8.

Blum, Adolph: *See—*
Rivkind, Leo E.; and Blum, Adolph, 3,667,687.

Blum, Albert. Submersible pump assembly. 3,635,606, 1-18-72, Cl. 417-360.

Blum, Albert. Submersible pump assembly. 3,685,926, 8-22-72, Cl. 417-424.000.

Blum, Alfred: *See—*
Milutin, Ivan Cutakovie; Bartell, Charles; and Blum, Alfred, 3,681,105.

Blum, Alvin S., to Ohio Nuclear, Inc. Method and apparatus for determining volume of a lung. 3,695,254, 10-3-72, Cl. 128-2.080.

Blum, Arthur B.: *See—*
Davis, James R.; and Blum, Arthur B., 3,678,978.

Blum, Bernard; and Schwartzenberg, John W., to Leeds & Northrup Company. Carbon content measurement in a basic oxygen furnace. 3,640,119, 2-8-72, Cl. 73-23.

Blum, Bernard Saul; and Kohn, Marvin Lee, to United Aircraft Corporation. Diffusion bonding method. 3,680,197, 8-1-72, Cl. 29-487.000.

Blum, Conrad C., to Bommer Spring Hinge Co., Inc. Hold open assembly for checking floor hinge. 3,702,015, 11-7-72, Cl. 16-55.000.

Blum, Heinrich: *See—*
Bartsch, Friedrich; and Blum, Heinrich, 3,643,315.

Blum, James; and Johnson, Robert P., to Bell & Howell Company, mesne. Precision positioning tool. 3,638,934, 2-1-72, Cl. 269-311.

Blum, James E., to Cybercom Corporation. Magnetic tape apparatus. 3,667,701, 6-6-72, Cl. 242-192.

Blum, Josef, to Sorvall, Ivan, Inc. Cryogenic microtome apparatus. 3,680,420, 8-1-72, Cl. 83-167.000.

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Blum, Michael J., to Beckman Instruments, Inc. Differential capacitance circuitry for differential pressure measuring instruments. 3,688,190, 8-29-72, Cl. 324-61.00r.

Blum, Paul; Lefrancois, Jacques; and Vinarnick, Louis, to Commissariat a l'Energie Atomique and Societe Lyonnaise de Plomberie Industrielle. Neutron-absorbing material and method of manufacture. 3,705,101, 12-5-72, Cl. 252-478.000.

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Blumber, Hans: *See—*
Wahlen, Werner; and Blumber, Hans, 3,673,920.

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Blumberg, Shmaryahu: *See—*
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Blumbergs, John H.; and Mac Kellar, Donald G., to FMC Corporation. Microorganism control. 3,684,477, 8-15-72, Cl. 71-67.000.

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Horgan, William J., Jr., 3,633,389.
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Blume, Hans-Juergen C., to United States of America, National Aeronautics and Space Administration. Parametric amplifiers with idler circuit feedback. 3,663,886, 5-16-72, Cl. 330-4.5.

Blume, Roe C.; and Seufert, Ludwig E., to Du Pont de Nemours, E. I., and Company. Process for producing phenol-aldehyde resin fibers. 3,651,199, 3-21-72, Cl. 264-236.

Blumel, Harald, to Chemische Werke Huls Aktiengesellschaft. Vulcanization of unsaturated ethylene-α-olefin rubbers. 3,654,243, 4-4-72, Cl. 260-79.5.

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Blumenfeld, Georg, to Dynamit Nobel Aktiengesellschaft. Cyclic hydroxyacetals. 3,641,059, 2-8-72, Cl. 260-340.6.

Blumenkamp, Manfred. Textile article dyeing apparatus. 3,696,644, 10-10-72, Cl. 68-15.000.

Blumenkranz, James J.: *See—*
Wise, Eugene H.; and Blumenkranz, James J., 3,678,634.

Blumenthal, B., & Co., Inc.: *See—*
Pommer, Edwin B., 3,703,760.

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Blumenthal, Jack H., to International Flavors & Fragrances Inc. Fragrance materials and processes. 3,637,859, 1-25-72, Cl. 260-601.
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Blumenthal, Jack Herbert: *See—*
Mitchell, Peter W. D.; and Blumenthal, Jack Herbert, 3,655,722.
Blumenthal, John: *See—*
Brown, Arling Dix., Jr.; and Blumenthal, John, 3,657,005.
Blumenthal, John, to Clevite Corporation. Liquid toner clean-off system for high speed operation. 3,654,659, 4-11-72, Cl. 15-306.
Blumenthal, Warren B., to NL Industries, Inc. Polymeric chromium sulfatozirconate compositions, their preparation and use. 3,677,798, 7-18-72, Cl. 117-62.100.
Blumenthal, Warren B., to National Lead Company. Method of producing and coating silver powder and the resultant product. 3,694,254, 9-26-72, Cl. 117-100.000.
Blumhardt, Harold: *See—*
Kirschmann, John D.; and Blumhardt, Harold, 3,632,043.
Blundell, Ian: *See—*
Harris, Albert Edward; and Blundell, Ian, 3,697,278.
Blunden, Donald J., to Whitehead & Kales Company. Vehicle tie-down for haul-away trailers. 3,685,856, 8-22-72, Cl. 280-179.00a.
Blunsdon, Ronald L., to Continental Can Company of Canada. Closure device for containers. 3,680,771, 8-1-72, Cl. 229-65.000.
Blunt, Barry W., to Hercules Incorporated. Method of preparing polymerization catalyst. 3,681,256, 8-1-72, Cl. 252-429.00a.
Blurton, Leon C.; and Cina, Saverio J., to Global Marine Inc. Air cushion drilling vehicle. 3,693,729, 9-26-72, Cl. 173-23.000.
Blustain, Stanley, to Stam Instruments Corporation. Apparatus for cleaning resilient webs. 3,688,527, 9-5-72, Cl. 68-3.0ss.
Bly, Herbert Arthur. Bead clip retainer for can closure. 3,651,980, 3-28-72, Cl. 220-54.
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Bly, Kenneth B.; and Mills, Donald S., to General Motors Corporation. Pressure pouring in a vacuum environment. 3,635,791, 1-18-72, Cl. 164-258.
Bly, Ray E., to Coors, Adolph, Company. Plastic closure for containers. 3,672,527, 6-27-72, Cl. 215-41.000.
Blymiller, Earl R.: *See—*
Whipple, Douglas W.; and Blymiller, Earl R., 3,668,956.
Blytas, George C., to Shell Oil Company. Corrosion inhibitors. 3,656,886, 4-18-72, Cl. 21-2.5.
Blytas, George C., to Shell Oil Company. Metal extraction. 3,658,512, 4-25-72, Cl. 75-103.
Blytas, George C., to Shell Oil Company. Process for extracting copper, cobalt and nickel values from aqueous solution. 3,703,573, 11-21-72, Cl. 423-24.000.
Blyther, Stanley Charles: *See—*
Berry, Francis Douglas; and Blyther, Stanley Charles, 3,647,601.
BMI Laboratories: *See—*
Whitaker, Noble D., 3,661,544.
Bnaks, Willard K.; and Lyon, James L., to International Business Machines Corporation. Electrostatic printing system. 3,690,760, 9-12-72, Cl. 355-16.000.
Bo, Carlo, to Ansaldo Meccanico-Nucleare S.p.A. Collection heat exchangers for gaseous fluids in general, particularly heaters of burning air for steam heaters in marine and land installations. 3,664,413, 5-23-72, Cl. 165-4.000.
Bo, Isak T., to A/S Kyllingstad Plogfabrik. Stabilizer means for plow with steerable tailwheel. 3,664,433, 5-23-72, Cl. 172-450.000.
Boag, Alexander: *See—*
Bader, Henry; and Boag, Alexander, 3,655,764.
Bader, Henry; and Boag, Alexander, 3,661,996.
Boardman, Charles Robert: *See—*
Knutson, Carroll F.; and Boardman, Charles Robert, 3,674,313.
Boardman, Franklin, to Union Carbide Corporation. Process for the preparation of polyimides. 3,632,797, 1-4-72, Cl. 260-78.
Boardman, George Leslie, to Geigy, J. R., AG. Process for the dyeings of blends of spandex fibers and polyamide fibers. 3,653,798, 4-4-72, Cl. 8-15.
Boardman, Guy; and Dawson, Fred, to Imperial Chemical Industries Limited. Process of dispersing oil slicks. 3,639,255, 2-1-72, Cl. 252-312.
Boardman, Kerin G.: *See—*
Taylor, Ronald B.; and Boardman, Kerin G., 3,682,859.
Boardman, Wilfred A.; and Willis, David Owen. Chamber pot. 3,680,151, 8-1-72, Cl. 4-141.000.
Boari, Gianfranco: *See—*
Passino, Roberto; and Boari, Gianfranco, 3,637,480.
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Boassy, Emil J.; and Shanni, Vincent, to Champion Incorporated. Building and swimming pool construction. 3,673,751, 7-4-72, Cl. 52-169.000.
Boast, Derek Walter. Methods of forming pipe joints. 3,668,754, 6-13-72, Cl. 29-157.000.
Boast, Gordon Ernerst: *See—*
Oven, Terence; and Boast, Gordon Ernerst, 3,658,385.
Boatner, Lynn A.; and Sewell, Kenneth G., to Advanced Technology Center, Inc., mesne. Light-sensitive Gunn-effect device. 3,651,426, 3-21-72, Cl. 331-107.
Boatwright, John T.; and Knight, Donald L., to Northeast Electronics Corporation. Method and apparatus for testing a communication line. 3,663,769, 5-16-72, Cl. 179-175.3.
Boatwright, John T., to Northeast Electronics Corporation. Voltage ratio apparatus with logarithmic output. 3,691,473, 9-12-72, Cl. 328-145.000.
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Robin, Harral T.; and Boaz, Virgil L., 3,668,584.
Boaz, Virgil L.; and Moore, Harold R., to Westinghouse Electric Corporation. Electrical inductive apparatus having serially interconnected windings. 3,688,236, 8-29-72, Cl. 336-187.000.
Bobalek, Francis J.: *See—*
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Bobard, Emile. Self-propelled harvester-thresher built up from a conventional tractor and harvesting and threshing means. 3,641,747, 2-15-72, Cl. 56-15.6.
Bobard, Emile. Self-propelled machines for farming and analogous purposes. 3,693,332, 9-26-72, Cl. 56-15.100.
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Bobard, Emile. Removable positionable vehicle control center. 3,696,880, 10-10-72, Cl. 180-77.00r.
Bobart, George F.; and Emerson, William A., to United States Steel Corporation. Induction heating method. 3,705,967, 12-12-72, Cl. 219-10.410.
Bobb, John S. Stephen, to Philadelphia Quartz Company. Method of preparing silica sol and product thereof. 3,650,977, 3-21-72, Cl. 252-313.
Bobb, Lloyd J.; deceased (by Bobb, Lucy M.; executrix), 1/2 to Pond, Chester C. and 1/2 to Bobb, Lucy M. Electrostatic speaker. 3,654,403, 4-4-72, Cl. 179-111.
Bobb, Lucy M.: *See—*
Bobb, Lloyd J., 3,654,403.
Bobb, Paul D., to Armstrong Cork Company. Chair pack. 3,642,127, 2-15-72, Cl. 206-65.
Bobb, Paul D., to Armstrong Cork Company. Method of packing chair seats. 3,670,473, 6-20-72, Cl. 53-37.000.
Bobbitt Laboratories: *See—*
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Bobear, William Joseph, to General Electric Company. Organopolysiloxane elastomer compositions. 3,660,345, 5-2-72, Cl. 260-375.
Bobeck, Andrew H.; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Magnetic devices. 3,643,238, 2-15-72, Cl. 340-174.
Bobeck, Andrew Henry, to Bell Telephone Laboratories, Incorporated. Domain propagation arrangement. 3,644,908, 2-22-72, Cl. 340-174.
Bobeck, Andrew Henry; Smith, David Herbert; Spencer, Edward Guerrant; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Magnetic devices utilizing garnet compositions. 3,646,529, 2-29-72, Cl. 340-174.
Bobeck, Andrew Henry; Sherwood, Richard Curry; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Magnetic devices utilizing garnet compositions. 3,665,427, 5-23-72, Cl. 340-174.0tf.
Bobeck, Andrew Henry, to Bell Telephone Laboratories, Incorporated. Single wall domain transfer circuit. 3,676,870, 7-11-72, Cl. 340-174.0tf.
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Bobeck, Andrew Henry; and Scovil, Henry Evelyn Derrick, to Bell Telephone Laboratories, Incorporated. Mass memory organization. 3,703,712, 11-21-72, Cl. 340-174.0tf.
Bobeck, Andrew Henry; Kowalchuk, Roman; and Reekstin, John Peter, Jr., to Bell Telephone Laboratories, Incorporated. Fail-safe domain generator for single wall domain arrangements. 3,706,081, 12-12-72, Cl. 340-174.0tf.
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Boberg, John E., to Lockheed Aircraft Corporation. Air outlet apparatus. 3,687,054, 8-29-72, Cl. 98-33.000.

Bobinski, Jack; and Picard, Jean P., to United States of America, Army. Novel combustible cartridge case and process therefor. 3,706,280, 12o19-72, Cl. 102-43.000.

Boblett, Emil V., to Ampex Corporation. Impedance matched ultrasonic delay line wherein electrodes consist of bismuth and indium. 3,702,448, 11-7-72, Cl. 333-30.00r.

Boblitt, Russell D., to Martin-Marietta Corporation. Depottable polyurethane form. 3,634,342, 1-11-72, Cl. 260-2.5.

Bobo, Melvin, to General Electric Company. Combustion apparatus. 3,648,457, 3-14-72, Cl. 60-39.74.

Bobo, Powell O., to Westinghouse Electric Corporation. Regulator apparatus responsive to generator output power factor and voltage. 3,634,750, 1-11-72, Cl. 322-20.

Bobo, Roy A. Rotating cyclone centrifuge. 3,648,840, 3-14-72, Cl. 209-211.

Bobo, Stephen N.: *See—*
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Bobolev, Alexandr Vasilievich: *See—*
Bljumberg, Erna Albertovna; Bobolev, Alexandr Vasilievich; Boboleva, Svetlana Pavlovna; and Emanuel, Nikolai Markovich, 3,674,813.

Boboleva, Svetlana Pavlovna: *See—*
Bljumberg, Erna Albertovna; Bobolev, Alexandr Vasilievich; Boboleva, Svetlana Pavlovna; and Emanuel, Nikolai Markovich, 3,674,813.

Bobolts, Lroy F., to Besser Company. Block cubing apparatus. 3,696,945, 10-10-72, Cl. 214-6.00g.

Bobowski, George: *See—*
Shavel, John, Jr.; and Bobowski, George, 3,646,109.

Bobrick Aero Missile Products: *See—*
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Bobrick Aero-Missile Products: *See—*
Vogt, Clarence L., 3,640,306.

Bobrick, Mitchell, to Air King Corporation. Trim ring for architectural light including means for stepped rotational and axial adjustment. 3,697,742, 10-10-72, Cl. 240-78.0ha.

Bobrick, Mitchell, to Air King Corporation. Architectural light and adjustment means therefor. 3,700,885, 10-24-72, Cl. 240-78.00h.

Bobst, J., & Fils, S.A.: *See—*
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Boby, William, & Company Limited: *See—*
Wyatt, James Andrew Stewart; Chapman, Clifford Victor Gascoyne; Solt, George Stefan; and Mullet, Sidney George, 3,679,059.

Bobylev, Alexei Vasilievich; Goryacheva, Kapitolina Arsenievna; and Chernikova, Alla Vasilievna. Non-magnetic copper-based alloy. 3,650,733, 3-21-72, Cl. 75-153.

Bocade, Emil J., to Keeler Brass Company. Collapsible barrier member. 3,635,278, 1-18-72, Cl. 160-206.

Bocek, Robert P., to Xerox Corporation. Character bit error detection and correction. 3,685,015, 8-15-72, Cl. 340-146.10f.

Boch, Jean Baptiste Christian: *See—*
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Bochenek, Eduard: *See—*
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Bochinski, Julius H., to North American Rockwell Corporation. Programmed fluid sampling and analysis apparatus. 3,654,113, 4-4-72, Cl. 204-195.

Bochinski, Julius H.; and Linkel, John E., to North American Rockwell Corporation. Hot gas fusion process and apparatus. 3,698,699, 10-17-72, Cl. 266-5.00r.

Bochinski, Julius H., to Enviro Control, Inc. Conductive fluid content detection system. 3,699,559, 10-17-72, Cl. 340-236.000.

Bochis, Richard J.: *See—*
Fisher, Michael H.; Hoff, Dale R.; and Bochis, Richard J., 3,686,110.
Fisher, Michael H.; Hoff, Dale R.; and Bochis, Richard J., 3,705,174.

Bochmann, Karlheinz, to Siemens Aktiengesellschaft. Method of data transmission. 3,665,395, 5-23-72, Cl. 340-146.1.

Bochringer Ingelheim G.m.b.H.: *See—*
Schroeder, Hans-Detlef; Merz, Herbert; Langbein, Adolf; Freter, Kurt; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Wick, Helmut, 3,689,492.

Bocian, Harvey: *See—*
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Bock, Burkhard: *See—*
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Bock, Elmer E., to Textile Machinery Company, Inc. Creel. 3,690,586, 9-12-72, Cl. 242-131.000.

Bock, Ernst; deceased (by Bock, Ingeborg; administratrix); Majewski, Martin; and Bartels, Wilhelm, said Majewski and said Bartels assors. to Ilseder Hutte. Method of and means for rolling rods. 3,653,246, 4-4-72, Cl. 72-198.

Bock, Ernst; deceased (by Bock, Ingeborg; administratrix), to Hutte, Ilseder. Method of milling and hobbing rolls for the manufacture of rods. 3,656,374, 4-18-72, Cl. 76-101.

Bock, Eugen: *See—*
Grigat, Ernst; Schultheis, Heinz; Bock, Eugen; and Dollhausen, Manfred, 3,658,623.
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Bock, Franz: *See—*
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Bock, Gustav, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Manufacture of pyranthrones. 3,673,220, 6-27-72, Cl. 260-360.000.

Bock, Helmuth: *See—*
Gerke, Peter; Rutkowski, Karl; Bock, Helmuth; and Palsa, Helmut, 3,665,110.

Bock, Helmuth Joachim: *See—*
Gerke, Peter; Rutkowski, Karl; and Bock, Helmuth Joachim, 3,655,922.

Bock, Helmuth-Joachim; and Sennefelder, Anton, to Siemens Aktiengesellschaft. Circuit arrangement for telecommunication installations, especially, telephone exchange installations with parallel alternatively acting identification signal transmitters. 3,75,274, 12-5-72, Cl. 179-175.20r.

Bock, Herbert G.; and Szerejko, Walter J., to Chandler Evans, Inc. Apparatus for filling a pressure vessel. 3,673,762, 7-4-72, Cl. 53-86.000.

Bock, Ingeborg: *See—*
Bock, Ernst; Majewski, Martin; and Bartels, Wilhelm, 3,653,246.
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Bock, Otto, Orthopadische Industrie KG., Firma: *See—*
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Bock, Robert V.: *See—*
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Trost, Joseph C.; Bock, Robert V.; Gerbstadt, Frederick H.; Graham, William J.; Miles, Wilson D.; and Questa, Charles R., 3,675,209.

Bock, Robert V.; Rehhausser, Frederick; Earnest, Elmer Dean; Gerbstadt, Frederick H.; and White, James A., to Burroughs Corporation. Information processing system having means for dynamic memory address preparation. 3,654,621, 4-4-72, Cl. 340-172.5.

Bockhorn, Henning: *See—*
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Bocking, Albert: *See—*
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Bockler, Herbert, to Schenk-Filterbau G.m.b.H. Centrifugal cleaning filter. 3,662,894, 5-16-72, Cl. 210-330.

Bockly, Erich: *See—*
Pelz, Willibald; Kabitzke, Karlheinz; Freytag, Karl-Heinz; Vetter, Hans; Danhauser, Justus; and Bockly, Erich, 3,684,513.

Bockmann, August; Essig, Karl-August; Feltgen, Karlheinz; Groschel, Herbert; and Rudolph, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Polyamide composition containing succinic imide compound. 3,642,713, 2-15-72, Cl. 260-78.

Bockmann, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of benzoyl chloride and benzotrichloride using light. 3,704,215, 11-28-72, Cl. 204-163.00r.

Bockstahler, Theodore E.; and Hunt, Curtis R., to Rohm & Haas Company. Prevention of polymer fouling of monomer processing apparatus. 3,705,190, 12-5-72, Cl. 260-486.00r.

Bockstie, Lawrence G., Jr., to Corning Glass Works. Flame-resistant resistor coatings. 3,655,607, 4-11-72, Cl. 260-33.8.

Bockstie, Lawrence G., Jr., to Corning Glass Works. Impregnating and coating composition for porous ceramic insulation. 3,666,551, 5-30-72, Cl. 117-218.000.

Bockstiegel, Georg Heinrich Artur Gerhard: *See—*
Wastenson, Erik Goran; and Bockstiegel, Georg Heinrich Artur Gerhard, 3,704,115.

Boda, Robert A., to Leach Company. Vehicle loader. 3,662,908, 5-16-72, Cl. 214-83.3.

Bodach, Charles M.: *See—*
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Bodai, Conrad A., to Technoscience Systems, Inc. Means of preparing a fuel-air mixture. 3,685,808, 8-22-72, Cl. 261-1.000.

Bodanszky, Miklos, to Squibb, E. R., & Sons, Inc. Amino acid derivatives. 3,704,246, 11-28-72, Cl. 260-333.000.

Boddy, Harold Albert, to Ralphs Unified Limited. Shoe upper drafting apparatus. 3,638,263, 2-1-72, Cl. 12-8.8.

Bode, Charles H., Jr., to United States Steel Corporation. Protective device for conveyors. 3,687,433, 8-29-72, Cl. 266-23.00r.

Bode, Charles H., Jr., to United States Steel Corporation. Self-aligning and flexing guide-roll rack. 3,700,073, 10-24-72, Cl. 193-35.000.

Bode, Hennig: *See—*

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Bode, James Daniel, to Bendix Corporation, The. Laminar flow fluid filter. 3,700,111, 10-24-72, Cl. 210-322.000.
Bode, Klaus-Dieter; and Schellhammer, Carl-Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. 7-Cyano-coumarins. 3,636,004, 1-18-72, Cl. 260-308.
Bode, Klaus-Dieter; and Schellhammer, Carl-Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. 7-Triazinyl-coumarins. 3,641,023, 2-8-72, Cl. 260-248.
Bode, Richard M. Coupled joint of axially aligned elongated members. 3,669,474, 6-13-72, Cl. 285-365.000.
Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfaender, Lawrence V., to Owens-Illinois, Inc. Method of making gas discharge device. 3,654,680, 4-11-72, Cl. 29-25.16.
Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfaender, Lawrence V., to Owens-Illinois, Inc. Fabrication of planar capillary tube structure for gas discharge panel. 3,684,468, 8-15-72, Cl. 65-4.000.
Bodeck, Andrew Henry; and Levinstein, Hyman Joseph, to Bell Telephone Laboratories, Incorporated. Magnetic domain propagation arrangement including medium with graded magnetic properties. 3,701,127, 10-24-72, Cl. 340-174.0tf.
Bodem, David C.: *See—*
Cimino, James J.; and Bodem, David C., 3,688,333.
Bodem, Johann: *See—*
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Bodem, Johann, to Schwarzkopf Development Corporation. Milling tools for the machining of gears. 3,688,368, 9-5-72, Cl. 29-103.00c.
Bodem, Roy C.: *See—*
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Boden, Herbert: *See—*
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Boden, Karl: *See—*
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Bodlaj, Viktor, to Siemens Aktiengesellschaft. Frequency-stabilized laser arrangement. 3,668,547, 6-6-72, Cl. 331-94.500.
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Boehme, Robert M., to Honeywell Inc. Multi-channel magnetic transducer structure having full width erase head in non-magnetic housing. 3,684,841, 8-15-72, Cl. 179-100.20c.
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Marotta, Nicholas G.; Zwiercan, Gary A.; and Boettger, Richard M., 3,652,294.

Boettner, Raymond C.: *See—*
Brown, Edgar E.; and Boettner, Raymond C., 3,660,177.

Boetto, Charles: *See—*
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Boetto, Charles; Stufflebeam, John F.; and Artman, Noel G., to International Harvester Company. Rotary cultivator wheel. 3,653,449, 4-4-72, Cl. 172-548.

Boetto, Charles; and Orkwiszewski, Wayne L., to International Harvester Company. Hydraulic alternator. 3,677,348, 7-18-72, Cl. 172-2.000.

Boffa, Gioacchino; Crotti, Argento; Pieri, Giampiero; Mangini, Angelo; and Tundo, Antonio, to Montecatini Edison S.p.A. 6,15 Dialkoxy 5,14 diaza isoviolanthrones. 3,678,053, 7-18-72, Cl. 260-272.000.

Bofinger, Karl; and Hake, Walter Thomas, to American Can Company. Apparatus for securing strip members to container bodies. 3,690,997, 9-12-72, Cl. 156-567.000.

Bofringer, Wilhelm, Mobelwerkstallen: *See—*
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Bogachenko, Alexei Georgievich: *See—*
Zuev, Ivan Mikhailovich; Gorsky, Anatoly Vasilievich; Medovar, Boris Izrailevich; Anenko, July Georgievich Emely; Latashi, Jury Vadimovich; and Bogachenko, Alexei Georgievich, 3,687,189.

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Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; and Bogachenko, Alexsey Georgievich, 3,665,080.

Bogaerts, Leo C.; and Weinberger, George W., to Ammco Tools, Inc. Variable speed ratio transmission. 3,670,584, 6-20-72, Cl. 74-199.000.

Bogan, Richard T.: *See—*
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Bogan, Simeon, 20% to Mensch, Elizabeth P. Combustion controlling anti-pollution device. 3,653,364, 4-4-72, Cl. 123-3.

Bogar, Jerry Hench, to AMP Incorporated. Connector for interconnection of symmetrical and asymmetrical transmission lines. 3,705,379, 12-5-72, Cl. 339-177.00r.

Bogash, Richard; Wolf, Milton; and Sellstedt, John H., to American Home Products Corporation. 2-Amido-6-amino penicillanic acids and related compounds. 3,669,980, 6-13-72, Cl. 260-304.000.

Bogdan, John R.: *See—*
Farmer, Alonzo; and Bogdan, John R., 3,647,383.

Bogdan, John R.; and Farmer, Alonzo, to PPG Industries, Inc. Method for treating TiO_2 reactor discharge containing products of nitrogen fixation. 3,650,695, 3-21-72, Cl. 23-202.

Bogdanov, Gorgy Porfirievich: *See—*
Okorokov, Ivan Fedorovich; Bogdanov, Gorgy Porfirievich; Sorokin, Konstantin Alexandrovich; Onischenko, Anatoly Fedorovich; Ziborov, Pavel Efimovich; and Perstnev, Samuil Nisonovich, 3,705,559.

Bogdanovic, Borislav: *See—*

Wilke, Gunther; and Bogdanovic, Borislav, 3,644,558.
Bogdanowicz, Mitchell J. Cartridge for continuous loop film. 3,687,531, 8-29-72, Cl. 352-72.000.
Bogenberger, Richard; Helmcke, Conrad; and Kritikos, Athanasios, to Messerschmitt-Bolkow-Blohm GmbH. Electrochemical data storage with electron beam accessing. 3,691,533, 9-12-72, Cl. 340-173.0ch.
Bogenberger, Richard; Busch, Heinz F. K.; Kroy, Walter; and Mehnert, Walter E., to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Method for transmitting television-compatible video and audio information by means of audio frequency and dvice for practicing the method. 3,702,378, 11-7-72, Cl. 178-5.80r.
Bogert, Robert C.: *See—*
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Boggian, Umberto: *See—*
De Barbieri, Ettore; and Boggian, Umberto, 3,694,814.
Boggs, Albert; deceased (by Boggs, Emily Eloise; executrix), to Sangamo Electric Company. Active delay and amplitude equalizers. 3,646,464, 2-29-72, Cl. 330-30.
Boggs, Beryl Aaron; and Quinn, Robert Ellis, to Allied Chemical Corporation. Spindle brake actuator. 3,641,836, 2-15-72, Cl. 74-512.
Boggs, Charles L., to International Paper Company. Laminated board structure and method of making same. 3,677,868, 7-18-72, Cl. 161-37.000.
Boggs, Elizabeth M.: *See—*
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Boggs, Emily Eloise: *See—*
Boggs, Albert, 3,646,464.
Boggs, Fitzhugh W.: *See—*
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Boggs, Jesse K., to Esso Research and Engineering Company. Tertiary alkylation utilizing an admixture of olefins and tertiary alkyl chlorides. 3,678,123, 7-18-72, Cl. 260-671.00r.
Boggs, Weldon C.; and Turcotte, Charles A., to Food Research & Equipment Company. Filter unit. 3,666,107, 5-30-72, Cl. 210-238.000.
Boggs, Weldon C. Safety controls for deep fat fryers. 3,688,683, 9-5-72, Cl. 99-330.000.
Boggs, Weldon C., to Food Research & Equipment Company. Deep fat fryer unit with solenoid valves and automatic controls. 3,701,313, 10-31-72, Cl. 99-330.000.
Boghosian, Edward Michael: *See—*
Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,641,083.
Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,651,105.
Boghosian, Malcolm P.; and Wilson, John W., Jr., to Allergan Pharmaceuticals. Stabilized chloramphenicol composition. 3,702,364, 11-7-72, Cl. 424-324.000.
Bogle, David M., to Ford Motor Company. Rotatable plate and impact means for scrap fragmentizing machine. 3,679,144, 7-25-72, Cl. 241-300.000.
Bognaes, Ragnar; and Solberg, Olav, to Kvaerner Brug A/S. Tank construction for liquified and/or compressed gas. 3,677,021, 7-18-72, Cl. 62-55.000.
Bognaes, Ragnar; and Solberg, Olav, to Kvaerner Brug A/S. Tanker for liquified and/or compressed gas. 3,680,323, 8-1-72, Cl. 62-55.000.
Bognar, Bela, to TRW Inc. Non-snap acting rocker switch. 3,691,325, 9-12-72, Cl. 200-66.000.
Bognar, Lewis L., to Corning Glass Works. Forming vessels from green glass-ceramic sheets. 3,681,043, 8-1-72, Cl. 65-33.000.
Bogner, Philip W.: *See—*
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Carothers, Charles H.; and Bogner, Philip W., 3,702,419.
Bogomolov, Alexei Sergeevich. Method for linear acceleration of heavy charged particles and device for its realization. 3,651,417, 3-21-72, Cl. 328-233.
Bogoroditsky, Alexandr Alexandrovich; Ryzhevskaya, Tamara Nikolaevna; Ryzhevsky, Alexei Gordeevich; and Shlyandin, Viktor Mikhailovich. Method of and apparatus for analog-to-digital conversion of physical values and their ratios. 3,665,456, 5-23-72, Cl. 34-347.
Bogosian, Theodore Oscar. Elastomeric oil slick boom. 3,685,296, 8-22-72, Cl. 61-1.00f.
Bogren, Hugl; Elfstrom, Gosta; and Tengroth, Bjorn, to Incentive Research & Development AB. Device for simultaneous radiographical and photographical examinations on the eye and the orbital region. 3,679,901, 7-25-72, Cl. 250-59.000.
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Bagli, Jehan F.; and Bogri, Tibor, 3,707,451.
Bagli, Jehan F.; and Bogri, Tibor, 3,707,548.
Bogsten, Anders Richard. Drill, particularly a so-called deep hole drill or gun boring drill. 3,701,606, 10-31-72, Cl. 408-59.000.
Bogue, David L.; and Fisher, William E., to KMS Industries, Inc. Method of bonding skin to concrete. 3,654,018, 4-4-72, Cl. 156-245.
Bogue Electric Manufacturing Company: *See—*
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Bogue, John C.: *See—*
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Bogue, John C.; and Sarbacher, Robert I. (said Sarbacher assor. to said), 3,666,962.
Bogue, John C.; and Sarbacher, Robert I. (said Sarbacher assor. to), 3,693,068.
Bogue, John C.; and Sarbacher, Robert I., 3,707,405.
Bogue, John C.; and Sarbacher, Robert I., said Sarbacher assor. to said Bogue, John C. Electrical power supply. 3,666,961, 5-30-72, Cl. 307-65.
Bogue, John C.; and Sarbacher, Robert I., said Sarbacher assor. to said Bogue, John C. Electrical power supply. 3,666,962, 5-30-72, Cl. 307-65.
Bogue, John C.; and Sarbacher, Robert I., said Sarbacher assor. to Bogue, John C. Electrical power supply comprising sequentially activated batteries. 3,693,068, 9-19-72, Cl. 320-13.000.
Bogue, John C.; and Sarbacher, Robert I., to Bogue, John C. Sequentially energized battery. 3,707,405, 12-26-72, Cl. 136-173.000.
Bogue, John S.: *See—*
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Boguslawski, Jan J., to Fabric Tire Hose Company. Apparatus for continuous manufacture of reinforced hose. 3,640,656, 2-8-72, Cl. 425-113.
Bogusz, Frank J. Door guard. 3,690,709, 9-12-72, Cl. 292-262.000.
Bogut, Henry A.; and Jasinski, Leon, to Motorola, Inc. Automatic temperature responsive battery charging circuit. 3,667,026, 5-30-72, Cl. 320-36.
Bohac, Johann Armin Josef, to AGA Aktiebolag. Quick release coupling device for cutting or welding torches. 3,682,454, 8-8-72, Cl. 266-23.00t.
Bohacz, Maxine: *See—*
Rand, Henry T.; Bohacz, Maxine; Lyon, Jerry; Pitman, Robert L.; Shaw, Donald N.; and Bianchi, John, 3,706,867.
Bohain, Pierre: *See—*
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Bohan, William J.; and Sarafa, Hani N., to Ford Motor Company. Energy absorbing steering column. 3,665,778, 5-30-72, Cl. 74-492.000.
Bohanec, August. Camera strap retractor. 3,707,109, 12-26-72, Cl. 95-86.000.
Bohannon, Ralph O., Jr., to Texas Instruments, Incorporated. Process for fabricating integrated circuit having matched complementary transistors. 3,682,724, 8-8-72, Cl. 148-175.000.
Bohannon, William D., Jr., to Western Electric Company, Incorporated. Package. 3,700,100, 10-24-72, Cl. 206-65.00f.
Bohanski, John S. Hand propelled vehicles. 3,690,697, 9-12-72, Cl. 280-247.000.
Bohar, Joseph: *See—*
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Bohemen, John, to BP Chemicals Limited. Stabiliser system. 3,702,830, 11-14-72, Cl. 252-404.000.
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Stewart, Faye H., 3,706,385.
Bohl, Lester E.; and Vancamp, Raymond M., to PPG Industries, Inc. Production of perchloroethylene and trichloroethylene utilizing oxychlorination reaction. 3,642,918, 2-15-72, Cl. 260-654.
Bohlbro, Hans: *See—*
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Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean-Henry; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,678,091.
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Hauser, Paul; Pfister, Walter; Stucki, Hans Ulrich; Teuwen, Heinz; Fuhring, Heinrich; and Sieber, Johannes Helmut, 3,665,734.
Bohley, Thomas K., to Hewlett-Packard Company. Trigger circuit utilizing a pair of logic gates coupled in parallel current paths. 3,649,852, 3-14-72, Cl. 307-289.
Bohlman, Ivan C. Clamp for attachment to side of hospital bed. 3,637,182, 1-25-72, Cl. 248-226.
Bohlman, Ivan C. Tool to clean grass and dirt from around sprinkler heads. 3,657,814, 4-25-72, Cl. 30-302.
Bohlmann, Willy F., Jr.; Goodrich, Jerome D.; and Corley, Charles B., Jr., to Esso Production Research Company. Servicing wells. 3,658,126, 4-25-72, Cl. 166-77.
Bohlmann, Willy Frank, Jr.: *See—*

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Bohlmeijer, Nicolaas: *See—*
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Bohm, Dieter, to Keuffel & Esser Company, mesne. Stannous salt corrective agent for diazotype copies. 3,632,518, 1-4-72, Cl. 252-188.
Bohm, Friedrich, to Metallschlauchfabrik Joseph Ulbrich & Co. Machine for the production of tubing. 3,670,544, 6-20-72, Cl. 72-49.000.
Bohm, Harald; and Heffler, Joachim, to Licentia Patent-Verwaltungs-G.m.b.H. Electrochemical cell containing electrical contact and method of using. 3,645,796, 2-29-72, Cl. 136-86.
Bohm, Heinz-Dieter: *See—*
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Schlotmann, Karl; Bohm, Heinz-Dieter; and Ruggen, Werner, 3,702,545.
Bohm, Heinz-Dieter; Muller, Unna Wolfgang; and Hobert, Herbert, to Maschinenfabrik Stromag G.m.b.H. Clutch operator with hydrostatic bearings. 3,706,365, 12-19-72, Cl. 192-85.0ca.
Bohm, Horst Otto: *See—*
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Wincierz, Peter; Ruhle, Manfred; Reddemann, Bernhard H.; Schirra, Manfred; and Bohm, Horst Otto, 3,635,700.
Wincierz, Peter; Ruhle, Manfred; Kuchler, Heinz; Borgstedt, Hans Ulrich; and Bohm, Horst Otto, 3,695,866.
Bohm, Rainer. Electronic organ. 3,681,508, 8-1-72, Cl. 84-1.030.
Bohman, Erik Harald, to Telefonaktiebolaget L M Ericsson. Arrangement for the generation of pulses appearing as pseudo-random numbers. 3,691,472, 9-12-72, Cl. 328-63.000.
Bohme Chemie Gesellschaft mbH: *See—*
Rall, Ulrich; Frotscher, Herbert; and Petzold, Manfred, 3,669,702.
Bohmter Maschinenfabrik G.m.b.H. & Co. K.G.: *See—*
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Bohn, Arlin L., to Minnesota Mining and Manufacturing Company. Film cartridge loader. 3,693,900, 9-26-72, Cl. 242-56.00r.
Bohn, Floyd O.; and McLaughlin, Russell A., to Dresser Industries, Inc. Electrical energy supply for well tools. 3,666,030, 5-30-72, Cl. 175-4.560.
Bohn, Karl A. Band iron stock working tool with a twist device thereon. 3,696,654, 10-10-72, Cl. 72-299.000.
Bohna, B. D., & Company, Inc.: *See—*
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Rubin, Allen G.; and Kalmar, Nicholas, 3,663,168.
Bohne, Frederick G.; and Johnson, Mark O., to Conax Corporation. Method of making electrical penetrant structure. 3,680,208, 8-1-72, Cl. 29-624.000.
Bohner, Beat; and Gubler, Kurt, to Ciba-Geigy Corporation. O,O-diethyl-O-[1-methyl-3-phenyl-s-triazalyl-(5)] phospharothioate. 3,689,500, 9-5-72, Cl. 260-308.00r.
Bohner, Beat; and Rufenacht, Kurt, to Geigy Chemical Corporation. Phosphoric acid esters, intermediates for making the same, and pest control by means of said esters. 3,705,240, 12-5-72, Cl. 424-203.000.
Bohner, Thomas H.; and Vaillancourt, Vincent L., to Bard, C. R., Inc. Method of packaging between laminated webs with heat and ultrasonic seals. 3,651,615, 3-28-72, Cl. 53-28.
Bohni, Erika; Ruegg, Rudolf; and Ryser, Gottlieb, to Hoffmann-La Roche Inc. Compositions and methods for treating amoebic and bacterial intestinal infections. 3,705,249, 12-5-72, Cl. 424-274.000.
Bohorquez, Luis; and Vindez, Pierre G., to Zephyr Manufacturing Co., Inc. Portable right angle drill. 3,679,320, 7-25-72, Cl. 408-99.000.
Bohorquez, Luis A.: *See—*
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Bohrer, Thomas C., to Celanese Corporation. Process and apparatus for start-up of fiber-spinning solutions. 3,651,194, 3-21-72, Cl. 264-169.
Bohrer, Thomas C.; and Champ, Antony E., to Celanese Corporation. Process for preparing acrylonitrile polymer solution. 3,655,857, 4-11-72, Cl. 264-206.
Bohrer, Thomas C.; and Chen, David H. T., to Celanese Corporation. Two-stage drawing process for polybenzimidazole fiber. 3,657,411, 4-18-72, Cl. 264-290.
Boichard, Jacques: *See—*
Batigne, Daniel; Boichard, Jacques; Gay, Michel; and Janin, Raymond, 3,639,416.
Boichard, Jacques; Brossar, Bernard Pierre; Duroux, Jacques Marius; and Janin, Raymond Marc Clement, to Rhone-Poulenc S.A. Preparation of oxalic acid. 3,651,135, 3-21-72, Cl. 260-533.
Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, to Rhone-Poulenc S.A. Process for the preparation of carboxylic acids. 3,660,481, 5-2-72, Cl. 260-533.
Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, to Rhone-Poulenc S.A. Process for the preparation of acetic acid. 3,661,988, 5-9-72, Cl. 260-533.
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Boies, David B.: *See—*
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Boik, Arnold R.; and Holk, Albert J., Jr. Single operation rivet. 3,690,706, 9-12-72, Cl. 287-20.300.
Boileau, Jacques: *See—*
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Boileau, Jacques, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Pneumatic tire. 3,631,913, 1-4-72, Cl. 152-353.
Boileau, Jacques, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Pneumatic tire. 3,638,704, 2-1-72, Cl. 152-353.
Boileau, Jacques, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Reinforced tire. 3,692,080, 9-19-72, Cl. 152-359.000.
Boileau, Jacques, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Tire tread with variable-width recesses. 3,707,177, 12-26-72, Cl. 152-209.000.
Boileau, Louis, to Atlantic Games Limited. Simulated golf board game apparatus. 3,658,339, 4-25-72, Cl. 273-134.
Boin, Giovanni. Electric lamps for emergency and/or for duty under particular environment conditions, and relative improved lamps. 3,641,336, 2-8-72, Cl. 240-10.6.
Boinodiris, Stavros; and Hellwarth, George A., to International Business Machines Corporation. Isolated digital-to-analog converter. 3,697,980, 10-10-72, Cl. 340-347.0da.
Boise Cascade Corporation: *See—*
Achermann, Werner; and Achermann, Franz, 3,669,067.
Bokovoy, Ronald D.; and Luvisotto, Roy G., 3,690,399.
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Ehrensing, Alvin T.; and Taylor, Clement R., 3,678,890.
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Boisen, Christian K. F.; deceased (by Boisen, Karen V.; administratrix), to Steiner Company Lausanne S.A. Paper towel dispenser. 3,697,146, 10-10-72, Cl. 312-39.000.
Boisen, Karen V.: *See—*
Boisen, Christian K. F., 3,697,146.
Boissevain, Mathew G.; and Hill, Robert C., to Measurex Corporation. Enclosure with radiation source having fail safe shutter. 3,697,755, 10-10-72, Cl. 250-106.00s.
Boissevain, Thomas A.: *See—*
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Boissier, Jacques R.; and Ratouis, Roger, to Societe Anonyme dite: Societe Industrielle pour la Fabrication des Antibiotiques (S.I.F.A.). N-phenoxyalkyl sulfamic acid amides and their alkaline salts. 3,634,507, 1-11-72, Cl. 260-556.
Boissier, Jacques R.; and Ratouis, Roger, to Societe Anonyme dite: Roussel-UCLAF. 11H-Dibenzo[1,2,5]triazepines and their salts. 3,635,983, 1-18-72, Cl. 260-268.
Boissier, Jacques R.; and Ratouis, Roger, to Societe Anonyme dite: Roussel-UCLAF, mesne. 17a,21 Alkenylidene dioxy derivatives of pregnane and process for preparation thereof. 3,651,049, 3-21-72, Cl. 260-239.55.
Boissier, Jacques R.; and Ratouis, Roger, to Societe Anonyme dite: Roussel-UCLAF. Phenylacetic acids and their salts. 3,697,590, 10-10-72, Cl. 260-518.00r.
Boissier, Jacques Robert: *See—*
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Boissier, Jacques Robert; and Ratouis, Roger, to Societe Anonyme dite: Roussel-UCLAF. 10,11-Dihydro-,9,10-dihydro-10,10-dimethyl-5- or 9-[3-amino-2-oxo- or-hydroxy-propylidene]-5H-dibenzo [a,d]cycloheptenes and -anthracenes. 3,674,841, 7-4-72, Cl. 260-501.20.
Boissieras, Jean; Delarue, Bernard; and Lefort, Marcel, to Rhone-Poulenc S.A. Process for the alkylation of halogenated silicon and tin compounds. 3,660,443, 5-2-72, Cl. 260-42.97.
Boissieras, Jean; Ceyzeriat, Louis; and Poy, Guy, to Rhone-Poulenc S.A. Iminoxyorganosilanes. 3,697,568, 10-10-72, Cl. 260-448.80r.
Boisvert, Conrad J., Jr., to Cogar Corporation. Method for determining partial memory chip categories. 3,644,899, 2-22-72, Cl. 340-172.5.
Boisvert, Conrad J., Jr., to Cogar Corporation. Method for indicating memory chip failure modes. 3,659,088, 4-25-72, Cl. 235-153.
Boiteau, Claude: *See—*

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Bojara, Stanley M.; and deMauriac, Richard A., to Eastman Kodak Company. Photosensitive and thermosensitive element, compositions and process. 3,667,959, 6-6-72, Cl. 96-114.100.
Boje, Kurt: *See—*
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Bojic, Milan; and Jorre, Daniel. Apparatus for direct spectrometric analysis of molten substances. 3,645,628, 2-29-72, Cl. 356-86.
Bojic, Milan, to Institut de Recherches de la Siderurgie Francaise. Apparatus for continuous spectral analysis of molten substances. 3,659,944, 5-2-72, Cl. 356-86.
Bojic, Milan; and Jorre, Daniel, to Institut de Recherches de la Siderurgie Francaise. Apparatus for spectral analysis of molten substances. 3,672,774, 6-27-72, Cl. 356-86.000.
Bojyo, Takuro; and Yamashita, Katsuyuki, to Victor Company of Japan Limited. Tape end detection device for tape recorder. 3,690,589, 9-12-72, Cl. 242-191.000.
Bok, Alfred B.: *See—*
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Bok, Hendrik F., to EPEC Systems Corporation. Spray gun system for slurry. 3,637,136, 1-25-72, Cl. 239-125.
Bok, Hendrik F.; and Garcia, David A., to Epec Industries, Inc. Precision coating spray gun. 3,653,594, 4-4-72, Cl. 239-70.
Bok, Johannes Gerardus; and De Graaf, Wilhelmus Polycarpus, to U.S. Philips Corporation. Multi flash lamp unit. 3,666,394, 5-30-72, Cl. 431-95.000.
Bok, Johannes Gerardus, to U.S. Philips Corporation. Camera with piezo-electric crystal flash ignition system. 3,677,153, 7-18-72, Cl. 95-11.00r.
Boke, Reinhard; Schmid, Alfred; and Wilke, Heinz, to Bosch, Robert, G.m.b.H. Method for making coils for armatures of electrical machines or the like. 3,643,326, 2-22-72, Cl. 29-605.
Bokeky, Edward Joseph, III, to RCA Corporation. Fusible semiconductor device including means for reducing the required fusing current. 3,699,403, 10-17-72, Cl. 317-235.00r.
Boklen, Rudolf: *See—*
Reiker, Adolf; and Boklen, Rudolf, 3,636,989.
Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrischev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olge Demidovna; an Yarovaya, Galina Dmitrievne. Negative light-sensitive material. 3,674,496, 7-4-72, Cl. 96-91.00n.
Bokovoy, Ronald D.; and Luvisotto, Roy G., to Boise Cascade Corporation. Axle assembly for an automotive vehicle. 3,690,399, 9-12-72, Cl. 180-75.000.
Bokovoy, Ronald D., to Boise Cascade Corporation. Fully automatic locking interaxle differential for tandem vehicles. 3,706,350, 12-19-72, Cl. 180-24.090.
Bokros, Jack C., to Gulf Oil Corporation. Coated article and method for making same. 3,676,179, 7-11-72, Cl. 117-46.0cg.
Bokros, Jack C.; and Ellis, Willard H., to Gulf Oil Corporation. Method of making a prosthetic device. 3,677,795, 7-18-72, Cl. 117-46.0cg.
Bokros, Jack C.; and Ellis, Willard H., to Gulf General Atomic Incorporated. Prosthetic blood circulation device having a pyrolytic carbon coated blood contacting surface. 3,685,059, 8-22-72, Cl. 3-1.000.
Bokros, Jack C.; and Ellis, Willard H., to Gulf Oil Corporation. Orthopedic device for repair or replacement of bone. 3,707,006, 12-26-72, Cl. 3-1.000.
Bokshorn, Yves: *See—*
Boudiak, Jean-Pierre H.; and Bokshorn, Yves, 3,634,641.
Bokshorn, Yves; and Boudiak, Jean-Pierre H., to COQ-France. High voltage circuit breakers. 3,646,284, 2-29-72, Cl. 200-48.
Boksjo, Carl Ingvar; and Sehman, Bengt Allan, to Allmanna Svenska Elektriska Aktiebolaget. Thyristor with a control device and having several control electrodes. 3,670,217, 6-13-72, Cl. 317-235.00r.
Bokvist, Kjell; and Ingestrom, Curt Holger, to Aktiebolaget Svenska Icopalfabriken, mesne. Bottom for buildings without basement, and a method of making such bottom. 3,673,750, 7-4-72, Cl. 52-169.000.
Bol, Jan; Heinze, Werner; Gebhardt, Josef; and Letschert, Werner, to Bundesminister fur Wissenschaftliche Forschung. Method of measuring the concentration and/or size of suspended particles by forward scattering of light. 3,646,352, 2-29-72, Cl. 250-218.
Bol, Jan; Buttner, Hildegard; and Kuhn, Peter, to Battelle Development Corporation, The. Temperature indicating dispersion filter. 3,677,966, 7-18-72, Cl. 252-408.000.
Bol, Jan Paul; Gebhart, Joseph; and Seger, Gunther, to Laporte Industries Limited. Method for measuring and/or monitoring the size of particles in suspension. 3,695,765, 10-3-72, Cl. 356-102.000.
Boland, Bernard W., to Motorola, Inc. Insulated gate field-effect device and method of fabrication. 3,696,276, 10-3-72, Cl. 317-235.00r.
Boland, Daniel E.; and Craig, Dale E., to Western Electric Company, Incorporated. Spool assemblies. 3,635,421, 1-18-72, Cl. 242-118.6.
Boland, Daniel Edmund; Dewees, Leonard S.; and Towsley, LeRoy M., to Western Electric Company, Incorporated. Flame retardant textile covered wire. 3,668,302, 6-6-72, Cl. 174-121.00a.
Boland, Steven H., to Ultra-Violet Products, Inc. Stable glow discharge light source with close temperature control for sharp resonance lines. 3,686,529, 8-22-72, Cl. 315-115.000.
Bold, Eugene W.: *See—*
Berkeley, Arnold D.; Bold, Eugene W.; Jefferson, Donald E.; and Zeller, Gerard A., 3,701,972.
Boldingh, Jan; Heslinga, Lammert; Schmidl, Ernst; and Syrovataka, Rudolf, to Lever Brothers Company. Detergent bleach. 3,686,127, 8-22-72, Cl. 252-99.000.
Boldt, Manfred: *See—*
Hornig, Lothar; Arpe, Hans-Jurgen; and Boldt, Manfred, 3,646,111.
Hornig, Lothar; Arpe, Hans-Jurgen; and Boldt, Manfred, 3,651,127.
Boldt, Manfred; Arpe, Hans-Jurgen; and Hornig, Lothar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of oxyacylation products and optionally hydroxylation products of condensed aromatic compounds. 3,64,486, 2-22-72, Cl. 260-479.
Boldt, Manfred; Arpe, Hans-Jurgen; and Hornig, Lothar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of phenyl esters and phenol from benzene. 3,651,101, 3-21-72, Cl. 260-410.5.
Bolduan, Dieter: *See—*
Markewitz, Wolfgang; and Bolduan, Dieter, 3,678,693.
Bolduc, Berthelemi J. Paper cutting apparatus. 3,678,581, 7-25-72, Cl. 30-294.000.
Bolduc, Camillien. Process for the production of granulated materials. 3,649,240, 3-14-72, Cl. 71-64.
Bolduc, Lee R., to Medical Plastics, Inc. Ground electrode and test circuit. 3,642,008, 2-15-72, Cl. 128-416.
Bolduc, Lee R., to Medical Plastics, Inc. Electrical connector and plate electrode. 3,699,968, 10-24-72, Cl. 128-303.130.
Bole, Hamilton B., to American Optical Corporation. Lens blocking apparatus. 3,663,983, 5-23-72, Cl. 51-277.000.
Bolega, Ulrich: *See—*
Schulz, Egon; Bolega, Ulrich; and Lang, Johann, 3,684,933.
Boleky, Edward Joseph; and Burns, Joseph Richard, to RCA Corporation. Fabrication of semiconductor devices. 3,646,666, 3-7-72, Cl. 29-577.
Boleky, Edward Joseph, to RCA Corporation. Semiconductor device including fusible elements. 3,699,395, 10-17-72, Cl. 317-101.000.
Bolen, Hugh R., Jr.; and Wiggins, Charles S., to Magnetic Forming Corporation. Coupling for foldable tubular parts. 3,655,297, 4-11-72, Cl. 416-72.
Boley, Benjamin Steven, to Thalhimer Brothers, Incorporated. Storage rack for clothes hangers. 3,661,268, 5-9-72, Cl. 211-49.
Boley, Robert D.; Meyer, Charles F.; Kiessling, Rudolf H.; and Paape, Kenneth L., to Square D Company. Electromagnetically operated solid state timing device. 3,683,301, 8-8-72, Cl. 335-59.000.
Bolger, Bernard J.: *See—*
O'Sullivan, Denis J.; and Bolger, Bernard J., 3,699,127.
Bolger, Bernard Joseph; and O'Sullivan, Denis Joseph. Adhesive compositions comprising 2-cyanoacrylates and heterocyclic compounds. 3,640,972, 2-8-72, Cl. 260-78.4.
Bolger, James W., to Riker Laboratories, Inc., mesne. Process for the liquefaction of mucus. 3,639,635, 2-1-72, Cl. 424-335.
Bolger, John G., Jr.; and Walker, Carl A., to Digilux Corporation, mesne. Method and apparatus for automatic scorekeeper. 3,705,722, 12-12-72, Cl. 273-54.00c.
Bolger, Thomas V., to RCA Corporation. Electronic editing apparatus. 3,646,260, 2-29-72, Cl. 178-6.6.
Bolhofer, William A., to Merck & Co., Inc. 2-Chlorobenzothiazolecarboxamides. 3,654,296, 4-4-72, Cl. 260-304.
Bolhofer, William A.; and Baldwin, John J., to Merck & Co., Inc. Substituted quinoxalines. 3,691,166, 9-12-72, Cl. 260-250.00r.
Bolick, Fred C., Jr.; and Godwin, James B., III, to Lanier Electronic Laboratory, Inc. Control device for a transcribing machine with automatic recall. 3,632,893, 1-4-72, Cl. 179-100.1.
Boliden Aktiebolag: *See—*
Bostrom, Karl-Johan, 3,695,373.
Gorling, Karl Goran, 3,674,462.
Nilsson, Bruno Yngve, 3,701,940.
Bolie, Victor W., to Oklahoma State University. Multi-channel signal normalizer. 3,644,676, 2-22-72, Cl. 179-1.

Bolin, Harold R., to United States of America, Agriculture. Process for concentrating liquid foods. 3,634,128, 1-11-72, Cl. 99-205.
Bolin, John E.: *See—*
Asar, Madhu P.; Bolin, John E.; and Maddox, Harry L., 3,644,661.
Boling, Harry G.: *See—*
Anderson, Charles M.; and Boling, Harry G., 3,651,923.
Boling, James Willard. Motorcycle compression release. 3,638,632, 2-1-72, Cl. 123-182.
Boling, Monte J., to Anderson Machine Works. Dip tube guide arrangement. 3,672,028, 6-27-72, Cl. 29-208.00b.
Bolinger, Edgar Dare; and Machell, Greville, to Deering Milliken Research Corporation. Modification of cellulosic fibers with ethylenically unsaturated compounds. 3,634,021, 1-11-72, Cl. 8-116.
Bolinger, John F., to Meridian Industries, Inc. Flasher circuit. 3,639,777, 2-1-72, Cl. 307-202.
Bolinger, John F., to Meridian Industries, Inc. Flasher circuit with outage indication. 3,646,359, 2-29-72, Cl. 307-202.
Bolinger, John F., to Meridian Industries, Inc. Transistor flasher with preheat circuit for lamp load. 3,660,674, 5-2-72, Cl. 307-202.
Bolinger, John F., to Meridian Industries, Inc. Flasher circuit with short protection. 3,684,896, 8-15-72, Cl. 307-202.000.
Bolitho, Walter J. Broiler. 3,638,634, 2-1-72, Cl. 126-41.
Boliver, Vincent J., to General Electric Company. Vented fuse module for underground power cable system. 3,678,432, 7-18-72, Cl. 337-201.000.
Boliver, Vincent J., to General Electric Company. Socket type contact for a fuse holder. 3,678,451, 7-18-72, Cl. 339-258.00r.
Bolkow Gesellschaft mit beschrankter Haftung: *See—*
Dederra, Carl-Helmut; and Butter, Karl, 3,690,103.
Kaufmann, Michael, 3,636,712.
Schubert, Johannes; and Fuchs, Rolf, 3,635,030.
Stangl, Arnold, 3,661,346.
Boll, Dietmar: *See—*
Reis, Walter; Pfenning, Helmut; and Boll, Dietmar, 3,650,411.
Boll, Harry Joseph: *See—*
Berglund, Carl Neil; and Boll, Harry Joseph, 3,660,697.
Boll, William E. Anti-theft device. 3,665,739, 5-30-72, Cl. 70-237.
Bolla, Giovanni. Inductor applicable to electric furnaces for metal casting. 3,665,082, 5-23-72, Cl. 13-26.000.
Bollag, Werner; Ramuz, Henri; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. Process for the manufacture of biguanide derivatives. 3,634,506, 1-11-72, Cl. 260-551.
Bollard, David Rooksby; and Jenkins, William Alfred, to Ekco Electronics Limited. Airborne pulsed range finding radar. 3,657,719, 4-18-72, Cl. 343-7.
Boller, John A.: *See—*
Flohr, William P., Jr.; and Boller, John A., 3,646,710.
Bolles, Milton M., to Deering Milliken Research Corporation. Apparatus for the production of a bonded textile fabric. 3,649,411, 3-14-72, Cl. 156-391.
Bolles, Theodore F., to Minnesota Mining and Manufacturing Company. Disposable reserve cell with encapsulated electrolyte. 3,653,972, 4-4-72, Cl. 136-90.
Bollettieri, Jerome; and Dalen, Arne; deceased (by Dalen, June; administratrix). Double bend stave. 3,655,211, 4-11-72, Cl. 280-11.13.
Bollhoff & Co.: *See—*
Scheffer, Harry, 3,662,643.
Bolli, Hans-Ulrich, to Schweizerische Industrie-Gesellschaft. Cutting device with zig-zag knife. 3,638,522, 2-1-72, Cl. 83-345.
Bolli, Hanspeter, to Sigerist, Carl, & Cie Schaffhausen. Apparatus for opening a swing door. 3,645,042, 2-29-72, Cl. 49-326.
Bolliand, Robert; and Saligny, Claude, to Societe Rhodiaceta-D.A.P.I.D. Process and apparatus for the production of synthetic textile stuffing material. 3,677,855, 7-18-72, Cl. 156-181.000.
Bolliand, Robert; and Saligny, Claude, to Societe Rhodiaceta. Method of preparing a non-woven fibrous web. 3,689,344, 9-5-72, Cl. 156-181.000.
Bolliand, Robert, to Societe Rhodiaceta. Process for the manufacture of a stuffing material. 3,696,185, 10-3-72, Cl. 264-280.000.
Bollig, Georg: *See—*
Hoffmann, Bernd; Bollig, Georg; and Dopper, Otto, 3,645,805.
Bollig, Georg B., to Schloemann Aktiengesellschaft. Dummy bar storage apparatus. 3,661,199, 5-9-72, Cl. 164-274.
Bollinger, Frederic G.; and D'Amico, John Joseph, to Monsanto Company. Trifluoromethylbenzyl thiolcarbamates as herbicides. 3,687,653, 8-29-72, Cl. 71-94.000.
Bollinger, Howard N.; and Inglis, Leslie R., to American Hospital Supply Corporation. Caster and swivel lock assembly. 3,636,586, 1-25-72, Cl. 16-35.
Bollinger, Luther L., Sr.: *See—*
Hennessy, James J., Jr.; and Bollinger, Luther L., Sr., 3,684,331.
Bollinger, Luther L., Sr., to Hennessy Products Incorporated. House car plug door control mechanism. 3,636,658, 1-25-72, Cl. 49-362.
Bollinger, Luther L., Sr., to Hennessy Products, Incorporated. Plug door control mechanism. 3,683,552, 8-15-72, Cl. 49-209.000.
Bollinger, Pietro; Harri, Eugen; and Sigg, Hans-Peter, to Sandoz Ltd.; a/k/a Sandoz AG. Antibiotic SL 3238 and process for the production of same. 3,655,880, 4-11-72, Cl. 424-122.
Bollinger, William C., to Detroit Flame Hardening Co. Method forming clad plates from curved surfaces. 3,679,858, 7-25-72, Cl. 219-76.000.
Bollman, Clifford J., to McDonnell Douglas Corporation. Wire harness jigboard having a plurality of wire retaining pins detachably embedded in spaced woven screen elements. 3,633,096, 1-4-72, Cl. 324-51.
Bollyky, Laszlo; and Whitman, Robert Henry, to American Cyanamid Company. Phosphine substituted oxalyl chlorides. 3,644,517, 2-22-72, Cl. 260-544.
Bollyky, Laszlo Joseph, to American Cyanamid Company. Chemiluminescent additives. 3,704,231, 11-28-72, Cl. 252-188.300.
Bolner, Thomas E., to Thiokol Chemical Corporation. Intersection ingress-egress automatic electronic traffic monitoring equipment. 3,663,937, 5-16-72, Cl. 340-38.00p.
Bologna, John P.: *See—*
Bowser, George H.; Shoop, Vernon A.; Pyzewski, Stanley J.; Mazzoni, Renato J.; and Bologna, John P., 3,669,785.
Bolomon, James E.; and Davis, Walter Richard, to Motorola, Inc. Automatic gain control RF-IF amplifier. 3,684,974, 8-15-72, Cl. 330-30.00d.
Bolotin, Evgeny Moiseevich: *See—*
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Burtsev, Pavel Semenovich; Yanchevsky, Kazimir Stanislavovich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny oiseevich; and Khaidurov, Leonid Konstantinovich, 3,656,810.
Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstatinovich; Khodosh, Vladimir lexandrovich; and Pisarev, Nikolai Dmitrievich. Tunnelling shield with jack for vertical adjustment of cutter drum. 3,695,719, 10-3-72, Cl. 299-33.000.
Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, VladimirAlexandrovich; and Pisarev, Nikolai Dmitrievich. Tunnelling shield. 3,695,720, 10-3-72, Cl. 299-33.000.
Bolotin, Mikhail Mikhailovich: *See—*
Karakashian, Zaven Oganezovich; Lazarian, Vsevolod Arutjunovich; Azarov, Boris Vasilievich; Bolotin, Mikhail Mikhailovich; Pershin, Vladimir Yakovlevich; Timoshuk, Albert Isidorovich; Dragonenko, Anatoly Alexandrovich; Zarakhovich, Ilia Yakovlevich; and Svdirov, Mikhail Vasilievich, 3,656,632.
Bolster, Keith G. Fireplace grate for burning papers. 3,669,092, 6-13-72, Cl. 126-165.000.
Bolt, Alfred V.; and Wood, James S., to Aluminum Company of America. Rotatable fixture with positive retention and lifting means. 3,633,540, 1-11-72, Cl. 118-502.
Bolt Associates, Inc.: *See—*
Chelminski, Stephen V., 3,646,598.
Chelminski, Stephen V., 3,653,460.
Chelminski, Stephen V., 3,657,917.
Bolt, Barry F., to Engelhard Hanovia, Inc. Electrical discharge lamp. 3,649,863, 3-14-72, Cl. 313-217.
Bolt Beranek and Newman Inc.: *See—*
Allen, Clayton H.; and Heine, John C., 3,640,539.
Frazier, Francis; and Graeber, Ralph P., 3,650,613.
Heine, John C.; Kerwin, Edward M., Jr.; and Gordon, Colin G., 3,666,275.
Scharton, Terry D., 3,686,927.
Bolt, Gregory L.; Brandt, Charles H.; McLain, Aubrey R.; and Patel, Jayantilal M., to Procter & Gamble Company, The. Flavor robusta coffee. 3,640,726, 2-8-72, Cl. 99-68.
Bolt, Gregory L.; and Strobel, Rudolf G. K., to Procter and Gamble Company, The. Coffee extration process. 3,700,463, 10-24-72, Cl. 99-71.000.
Bolt, Harry Collett. Shower cabinets. 3,646,590, 2-29-72, Cl. 4-146.
Bolt, Kenneth Dale: *See—*
Houston, Herbert James; Baird, Robert Gordon; Bolt, Kenneth Dale; and Gretzinger, Adolf, 3,633,858.
Bolt, Reginald C., to Molins Machine Company Limited. Electronic apparatus. 3,662,272, 5-9-72, Cl. 328-104.
Bolt, Richard Robert; and Wobbe, Delbert Edmond, to American Can Company. Drawing and ironing process. 3,670,543, 6-20-72, Cl. 72-41.000.
Bolt, Robert O.: *See—*
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Bolte, Herbert: *See—*
Heil, Eduard; Trieschmann, Hans-Georg; Willersinn, Herbert; Bolte, Herbert; and Bronstert, Klaus, 3,676,378.
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Kunz, Eugene L.; and Bolte, Ronald P., 3,650,293.
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Bolton, Anthony Peter, to Union Carbide Corporation. Process for improving the activity of zeolitic catalyst compositions. 3,647,717, 3-7-72, Cl. 252-455.
Bolton, Benjamin A.: *See—*
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Bolton, Benjamin A., to Standard Oil Company. A-I polymer laminates prepared by filament winding. 3,660,193, 5-2-72, Cl. 156-169.
Bolton, Charles D. Adjustable bridging device. 3,648,425, 3-14-72, Cl. 52-632.
Bolton, George H.: *See—*
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Bolton, Lawrence. Rear view mirror for auto bumpers. 3,698,798, 10-17-72, Cl. 350-307.000.
Bolton, Michael R.: *See—*
Bethune, John H.; Tarzi, Clement A.; Bolton, Michael R.; and Rainville, Joseph R., 3,632,718.
Bolton, Norman A.; and Frielinghaus, Klaus H., to General Signal Corporation. Vehicle traffic control system. 3,651,453, 3-21-72, Cl. 340-42.
Bolton, Norman A., to General Signal Corporation. Flux nulled wheel detector. 3,697,745, 10-10-72, Cl. 246-249.000.
Bolton, William Robert Fossey: *See—*
Ferguson, Colin Campbell; and Bolton, William Robert Fossey, 3,706,352.
Boltrek, Henry; and Kraft, Joseph K., to Westinghouse Electric Corporation. Modular drive unit for a conveyor. 3,677,388, 7-18-72, Cl. 198-16.000.
Boltrek, Henry; and Kraft, Joseph K., to Westinghouse Electric Corporation. Modular passenger conveyor construction. 3,707,220, 12-26-72, Cl. 198-16.000.
Boltz, Charles D., Jr., to RCA Corporation. Optical apparatus for continuous television film projection system. 3,679,827, 7-25-72, Cl. 178-7.200.
Boltze, Karl-Heinz; and Lorenz, Dietrich, to Troponwerke Dinklage & Co. Quinazolinone derivative and process for the production thereof. 3,652,567, 3-28-72, Cl. 260-256.4.
Boltze, Karl-Heinz; and Lorenz, Dietrich, to Troponwerke Dinklage & Co. Pharmacologically active quinazolinone compound, its use in pharmacological preparations and process for its preparation. 3,669,967, 6-13-72, Cl. 260-256.40q.
Boltze, Karl-Heinz; Brendler, Otfried; and Lorenz, Dietrich, to Troponwerke Dinklage & Co. Pharmacologically active esters of N-(3-trifluoromethylphenyl)-anthranilic acid. 3,692,818, 9-19-72, Cl. 260-471.00r.
Boltze, Karl-Heinz; Brendler, Otfried; and Lorenz, Dietrich, to Traponwerke Dinklage & Co. Pharmacologically active esters and amides of N-[3-trifluoromethylphenyl]-anthranilic acid. 3,694,489, 9-26-72, Cl. 260-471.00r.
Bolzan, James J., Jr.; and Fromknecht, Charles T. Canister vacuum cleaner with retractable hose. 3,651,536, 3-28-72, Cl. 15-323.
Bom, Cornelis Johannes Gerardus: *See—*
Van Der Lely, Ary; and Bom, Cornelis Johannes Gerardus, 3,682,395.
Bomba, Georg A., 1/2 to Walker, Fred J. Exhaust feedback and control system for internal combustion engines. 3,672,340, 6-27-72, Cl. 123-119.00a.
Bombara, Giuseppe A., to Centro Sperimentale Metallurgico S.p.A. Acid pickling of stainless steels. 3,694,334, 9-26-72, Cl. 204-145.000.
Bombardier, Jacques; and Leclerc, Rejean, to Bombardies Limited. Cleat element for tracked vehicles. 3,637,267, 1-25-72, Cl. 305-35.
Bombardier, Jerome, to Bombardier Limited. Variable speed transmission system and braking means. 3,698,497, 10-17-72, Cl. 180-5.00r.
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Bergeron, Zoel; and Vadeboncoeur, Leo, 3,661,022.
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Bomberger, Howard B., Jr.: *See—*
Finlay, Walter L.; and Bomberger, Howard B., Jr., 3,645,727.
Bomberger, Howard B., Jr.; and Kessler, Harold D., to RMI Company, mesne. Method and apparatus for converting miscellaneous pieces of reactive metals to a usable form. 3,646,175, 2-29-72, Cl. 264-8.
Bomberger, Howard B., Jr.; and Seagle, Stanley R., to RMI Company, mesne. Method of improving macrostructure of titanium-base alloy products. 3,679,403, 7-25-72, Cl. 75-175.500.
Bomco Incorporated: *See—*
Banks, Neill K., Jr., 3,685,475.
Banks, Neill K., Jr.; and Standley, Mark L., 3,698,463.
Bommer, Peter; and Menzi, Hans, to Mettler Instruments AG. Platform balance. 3,674,102, 7-4-72, Cl. 177-256.000.
Bommer Spring Hinge Co., Inc.: *See—*
Blum, Conrad C., 3,702,015.
Bomstein, Ralph A. Waste treatment with microbial nucleoprotein flocculating agent. 3,684,706, 8-15-72, Cl. 210-47.000.
Bonafide Pattern, Inc.: *See—*
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Bonafiglia, Joseph C.; and Krieger, Harold, to Rohm & Haas Company. Hair pieces containing fibers of nylon 6, butadiene-styrene copolymer and polyalkyl methacrylate. 3,702,877, 11-14-72, Cl. 260-857.00d.
Bonafino, Edward J.; Doolittle, Frederick W.; Hayes, Charles U.; and Yarrington, James C., to International Business Machines Corporation. Conveyor system. 3,706,370, 12-19-72, Cl. 198-76.000.
Bonagura, Ronald: *See—*
Lysle, Gordon; and Bonagura, Ronald, 3,696,722.
Bonami, Robert Raoul Charles; Lerouge, Claude Paul Henri; and Strube, Didier Charles, to International Standard Electric Corporation. Non-linear decoder with linear and non-linear ladder attenuators. 3,653,033, 3-28-72, Cl. 340-347.
Bonanno, Peter J.: *See—*
Wittes, James M.; and Bonanno, Peter J., 3,680,562.
Bonasso, Samuel G. Carrying device for garment hangers and the like. 3,633,801, 1-11-72, Cl. 224-45.
Bonavent, Gerard; Huvey, Michel; and Peinado, Marcel, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for separating two liquids of different densities in a tank containing these two liquids. 3,680,729, 8-1-72, Cl. 220-22.000.
Bonavita, Jean Baptiste, to British Petroleum Company Limited, The. Recovery of micro-organisms cultivated on hydrocarbons. 3,655,511, 4-11-72, Cl. 195-28.
Bonazzi, Pericle. Press for rebuilding of tires. 3,697,206, 10-10-72, Cl. 425-20.000.
Bonci, Adolph. Paint holder for painting with roller. 3,641,616, 2-15-72, Cl. 15-257.06.
Bond, Donald S., to RCA Corporation. Radio postal system acknowledgement apparatus. 3,641,432, 2-8-72, Cl. 325-4.
Bond, Donald Spencer, to RCA Corporation. Radio facsimile postal system for multiple addresees. 3,678,180, 7-18-72, Cl. 178-5.000.
Bond, Donald Spencer, to RCA Corporation. Apparatus for the automatic navigation of a sailing vessel. 3,691,978, 9-19-72, Cl. 114-144.000.
Bond, James H.: *See—*
McConnell, Wayne V.; Bond, James H.; and Russin, Nicholas C., 3,663,600.
Bond, James M. Apparatus facilitating care of a bedfast patient. 3,701,170, 10-31-72, Cl. 4-174.000.
Bond, Kenneth L.; and Schooley, James A., to Honeywell Information Systems Inc. Data sort method utilizing finite difference tables. 3,662,402, 5-9-72, Cl. 444-1.
Bond, Leo H. Method of coating a vehicle headlight lens. 3,676,191, 7-11-72, Cl. 117-77.000.
Bond, Milton F.; and Shatford, John F., to International Business Machines Corporation. Character segmentation using pattern measurements, error rescan and adaptive font determination. 3,694,807, 9-26-72, Cl. 340-146.3sg.
Bond Stores, Incorporated: *See—*
Parillo, Vincent, 3,659,721.
Bond, William D., to World Industries, Inc. Plural cavity toroidal float pool chemical package. 3,677,711, 7-18-72, Cl. 23-267.00a.
Bondahl, Gary B.: *See—*
Dunnahoe, Richard G.; Bondahl, Gary B.; and Roth, Paul W., 3,669,741.
Bondarenko, Edward J., to Commonwealth of Australia. Tip welding means. 3,657,512, 4-18-72, Cl. 219-131.
Bondarenko, Fedor Alexeevich: *See—*
Rubinshtein, Sholom Yakovlevich; Babin, Mikhail Artemievich; Gutman, Anatoly Lvovich; Naumenko, Viktor Dmitrievich; Orlov, Evgeny Mikhailovich; Presman, Vladimir Alexandrovich; Maev, Veniamin Evnovich; and Bondarenko, Fedor Alexeevich, 3,678,664.
Bondarenko, Oleg Petrovich: *See—*
Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; and Bogachenko, Alexsey Georgievich, 3,665,080.
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Pentegov, Igor Vladimirovich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Podola, Nikolai Vasilievich; and Emelyanenko, July Georievich, 3,665,081.
Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Bondarenko, Oleg Petrovich; Latash, Jury Vadimovich; Baglai,

Vitaly Mikhailovich; and Shirshov, Vladimir Grigorievich, 3,665,488.
Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Bondarenko, Oleg Petrovich; Latash, Jury Vadimovich; Baglai, Vitaly Mikhailovich; and Shirshov, Vladimir Grigorievich, 3,682,622.
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Podola, Nikolai Vasilievich; Bondarenko, Oleg Petrovich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovich; Smolyakov, Vadim Filimonovic; Eltsov, Konstantin Sergeevich; Gabuev, Georgy Kharitonovich; and Gladky, Dmitry Fedorovich, 3,693,700.
Bondarev, Konstantin Timofeevich; Kozmin, Mikhail Ivanovich; Minakov, Anatoly Gavrilovich; Minin, Vladimir Ivanovich; Mitkevich, Grigory Iosifovich; and Strekalov, Anatoly Vasilievich, to Ordena Trudovogo Krasnogo Znameni Zavod "AVTOSTEKLO". Float glass pparatus for producing sheet glass crystalline material from a glass band. 3,684,475, 8-15-72, Cl. 65-182.00r.
Bondarovich, Henry A.: *See—*
Kratz, Philip De C.; and Bondarovich, Henry A., 3,686,004.
Bonded Products, Inc.: *See—*
Hight, Hanford Z.; and Lesky, Stephen, 3,676,254.
Bondi, Joseph V.: *See—*
Allen, Donald J.; and Bondi, Joseph V., 3,644,630.
Bondi, Pasquale Columbo, to General Electric Company. Variable flow distributor. 3,692,041, 9-19-72, Cl. 137-238.000.
Bondina Limited: *See—*
Pearson, William Michael; and Pearson, Anthony, 3,674,593.
Bondit Corporation: *See—*
Goldstein, Milton; Hair, George R.; Kutzenco, Jack; and Marchand, Jacques J., 3,655,488.
Bondley, Ralph J., to General Electric Company. High temperature brazing alloy system. 3,691,607, 9-19-72, Cl. 29-194.000.
Bonds, Albert C., to Helical Line Products Co. Helical suspension clamp assembly. 3,684,221, 8-15-72, Cl. 248-63.000.
Bondurant, John C. Temperature change actuated motor. 3,699,769, 10-24-72, Cl. 60-23.000.
Bone, Arnold R., to Dennison Manufacturing Company. Hand operated embossing machine. 3,633,722, 1-11-72, Cl. 197-6.7.
Bone, Arnold R., to Dennison Manufacturing Company. Fastener attachment systems. 3,659,769, 5-2-72, Cl. 227-68.
Boneck, Roger L. Self-contained cable reel. 3,670,977, 6-20-72, Cl. 242-54.00r.
Boneck, Roger L. Window power actuating device. 3,691,684, 9-19-72, Cl. 49-21.000.
Bonelli, Giovanni. Process for alum cracking and the so obtained products. 3,679,361, 7-25-72, Cl. 23-121.000.
Bonesteel, Kenneth E.; and Kinkopf, Edward J., to Alliance Machine Company, The. Manipulator. 3,631,996, 1-4-72, Cl. 214-147.
Bonetalli, Angelo. Release device, particularly for switches or similar, of small power. 3,662,130, 5-9-72, Cl. 200-67.
Bonetti, Giovanni A.: *See—*
Baker, Thomas, N., III; and Bonetti, Giovanni A., 3,652,523.
Rosenthal, Rudolph; Bonetti, Giovanni A.; and Shalit, Harold, 3,663,642.
Bonetti, Giovanni A.; Baker, Thomas N., III; and Capaldi, Eugene C., to Atlantic Richfield Company. Preparation of 1,4-dichlorobutene-2. 3,642,919, 2-15-72, Cl. 260-654.
Boney, William E., III: *See—*
Barry, James D.; and Boney, William E., III, 3,704,428.
Bonfardeci, Augusto, to Montecatini Edison S.p.A. Process for the polymerization of isoprene in homogeneous phase. 3,652,528, 3-28-72, Cl. 260-94.3.
Bonfield, John Henry, to Allied Chemical Corporation. Weak acid salts of hydroxylamine. 3,684,432, 8-15-72, Cl. 423-284.000.
Bonfiglio, Charles P.: *See—*
Bennett, John L.; and Bonfiglio, Charles P., 3,665,560.
Bongers, Hendrikus Johannus, to Siempelkamp, G., & Co. Apparatus for making conveyor belts. 3,687,788, 8-29-72, Cl. 156-510.000.
Bongort, Edgar A.: *See—*
Hawkins, Harold V.; Dick, Ralph A.; and Bongort, Edgar A., 3,654,415.
Bonham, Alba J.: *See—*
Rampy, C. W.; and Bonham, Alba J., 3,689,743.
Bonham, David C. Method of producing a hairpiece. 3,660,185, 5-2-72, Cl. 156-72.
Bonhomme, Francois Robert, to Connectronics Corporation. Sockets for prong socket electrical contacts and in their methods of manufacture. 3,641,483, 2-8-72, Cl. 339-217.
Bonhomme, Francois Robert, to Connectronics Corporation. Rapid connection device for an electrical conductor. 3,686,622, 8-22-72, Cl. 339-217.00r.
Bonhote, Andre. Bathtub. 3,663,971, 5-23-72, Cl. 4-173.000.
Boni, Orlando. Hockey practice device for propelling pucks. 3,665,910, 5-30-72, Cl. 124-11.
Bonikowski, Zbigniew; and Keen, Bruce Henry, to British Insulated Callender's Cables Limited. Apparatus for detecting faults in elongated flexible material. 3,694,711, 9-26-72, Cl. 318-6.000.
Bonilla, Charles F., to Haskett, Barry F. Construction of electrolytic cell. 3,645,879, 2-29-72, Cl. 204-247.
Bonilla, Charles F., 90% to Haskett, Barry F. and 10% to Martin, Joan Hixon. Purification of impure solid NaCl by countes-current contact with molten NaCl. 3,697,234, 10-10-72, Cl. 23-312.0ah.
Bonin, Pete J.: *See—*
Hussey, Joseph L., 3,640,272.
Bonin, Yves; and Robin, Jean, to Rhone-Poulenc S.A. Process for the preparation of polyurethane mastics. 3,661,862, 5-9-72, Cl. 260-77.5.
Bonin, Yves; and Robin, Jean, to Rhone-Poulenc S.A. Storage-stable polyurethane repolymers containing malonitrile. 3,681,288, 8-1-72, Cl. 260-77.snc.
Bonini, Bianca Flavia: *See—*
Mangini, Angelo; Tundo, Antonio; Bonini, Bianca Flavia; and Rossetti, Marta, 3,663,541.
Bonini, Joseph N., to Gulton Industries, Inc. Method of making a trimmable monolithic capacitor. 3,688,361, 9-5-72, Cl. 29-25.420.
Bonis, Henry M., Jr.: *See—*
Shulman, Arthur; and Bonis, Henry M., Jr., 3,664,281.
Bonis, Scott R.; Salzer, Thomas E.; and Robillard, David R., to Raytheon Company. Wire spool package. 3,635,333, 1-18-72, Cl. 206-52.
Bonisch, Herbert; Gaiser, Heinz; Huber, Guntram; and Kolle, Erwin, to Daimler-Benz Aktiengesellschaft. Outside mirror for motor vehicles. 3,638,899, 2-1-72, Cl. 248-483.
Bonitz, Eckhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Compositions containing bitumen and an olefin polymer. 3,634,293, 1-11-72, Cl. 260-28.5.
Bonjuk, Petr Veniaminovich: *See—*
Orlova, Frida Abramovna; Seleznev, Georgy Vasilievich; and Bonjuk, Petr Veniaminovich, 3,664,885.
Bonk, Heinrich Sylvester, to Prontor-Werk Alfred Gauthier, G.m.b.H. Exposure time setting device for a photographic camera with a frosted glass plate precision setting and an electronic time setting arrangement. 3,643,560, 2-22-72, Cl. 95-10.
Bonk, Henry W.; Grieve, Robin L.; Nadeau, Herbert G.; and Palmer, Peter G., to Upjohn Company, The. Varied density polyisocyanurate foam structure. 3,644,168, 2-22-72, Cl. 161-160.
Bonk, Joseph S.: *See—*
Dinenno, Philip A., Jr.; Bonk, Joseph S.; Conrad, Kenneth C.; Moore, Rodney S.; Lochman, Harry E.; and Torello, Daniel D., 3,677,658.
Bonleitner, Wolfgang; Chvatlinsky, Kurt; and Hanke, Walter, to Olympia Werke AG. Case shift control apparatus operable by a case shift key and by type keys. 3,698,530, 10-17-72, Cl. 197-71.000.
Bonn, Clifford; and Wilson, Kenneth R. A., to Irvin Air Chute, Limited. Stretch fabric parachute canopy. 3,655,152, 4-11-72, Cl. 244-145.
Bonnabaud, Joannes Francis Marcel; and Brat, Claude. Strand unreeling device with automatic tension control. 3,655,108, 4-11-72, Cl. 242-128.
Bonnamy, Jean Marc: *See—*
Duc, Xuong Nguyen; and Bonnamy, Jean Marc, 3,681,927.
Bonnar, John, to National Research Development Corporation. Female incontinence device. 3,646,929, 3-7-72, Cl. 128-1.
Bonnard, Lucien; Pich, Rene; and Palsky, Alain, to Societe Rhodiaceta. Sulphonated polyethers. 3,663,509, 5-16-72, Cl. 260-49.
Bonnard, Michel Paul Rene. Sound reproduction acoustic enclosure. 3,687,221, 8-29-72, Cl. 181-31.00b.
Bonnat, Roger R.; and Ores, Bernard, to Societe Anonyme dite: Roussel-UCLAF, mesne. Process for the preparation of proteases active in alkaline medium. 3,661,715, 5-9-72, Cl. 195-66.
Bonnaud, Michel, to Automobiles Peugeot and Regie Nationale des Usines Renault. Actuating mechanism for a latch. 3,666,308, 5-30-72, Cl. 292-336.300.
Bonneau, Andre; and Bontems, Henri. Fluid flow control valve. 3,647,175, 3-7-72, Cl. 251-61.
Bonnefille, Robert: *See—*
Kant, Michel; and Bonnefille, Robert, 3,663,844.
Bonnefille, Robert; Rialland, Jean Francois; and Robert, Jack, to Etablissement Public: Agence Nationale de Valorisation de la Recherche 'Anvar'. Method for producing a material for use in the manufacture of oxygen electrodes for use in fuel cells electrods. 3,649,364, 3-14-72, Cl. 136-120.
Bonnefond, Georges: *See—*
Lansaque, Rene; and Bonnefond, Georges, 3,690,684.
Bonnefont, Michel: *See—*
Ferrand, Andre; and Bonnefont, Michel, 3,688,078.
Bonnel, Bernard; and Hovasse, Christian, to Progil. Portland cement composition having an accelerated set. 3,656,985, 4-18-72, Cl. 106-90.
Bonnel, Bernard, to Progil. Hydraulic binders and compositions including these binders. 3,692,728, 9-19-72, Cl. 260-29.4ua.
Bonnema, Jentje; and Pijpers, Emanuel M. J., to Stamicarbon N.V. Preparation of macromolecular formaldehyde polymers. 3,647,754, 3-7-72, Cl. 260-67.

Bonner, Charles W., Jr.; and Houck, Curtis T., to Cardwell Machine Company, The. Tobacco threshing machine. 3,696,817, 10-10-72, Cl. 131-145.000.

Bonner, Frederick M.: *See—*
Lempert, Joseph; Lowry, Jerald; and Bonner, Frederick M., 3,634,645.

Bonner, W. C., Company, Inc.: *See—*
Marten, Donald J., 3,635,597.

Bonner, Willard Hallam, Jr., to Du Pont de Nemours, E., I., and Company. Process for preparing polythioureas. 3,645,981, 2-29-72, Cl. 260-77.5.

Bonner, Willard Hallam, Jr., to Du Pont de Nemours, E. I., and Company. Polythioureas and shaped articles thereof. 3,666,728, 5-30-72, Cl. 260-77.5.

Bonner, Willard Hallam, Jr., to Du Pont de Nemours, E. I., and Company. Flash extrusion of polyvinyl chloride. 3,696,181, 10-3-72, Cl. 264-53.000.

Bonner, William A., to Rockford Servo Corporation. Web guide apparatus. 3,693,855, 9-26-72, Cl. 226-19.000.

Bonner, William Adam, to Bell Telephone Laboratories, Incorporated. Technique for the growth of single crystal lead molybdate. 3,653,814, 4-4-72, Cl. 23-15.

Bonner, William Adam; Singh, Shobha; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Lithium formate nonlinear devices. 3,679,907, 7-25-72, Cl. 307-88.300.

Bonneric, Francis, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Process for regulating initial doses for the making up of doses in two stages. 3,682,263, 8-8-72, Cl. 177-1.000.

Bonnerot, Jacques; and Paradan, Henri, to U.S. Philips Corporation. Cryostat. 3,646,775, 3-7-72, Cl. 62-216.

Bonneson, Gail G. Means for collecting coins from a coin operated machine. 3,653,586, 4-4-72, Cl. 232-43.2.

Bonnet, Alain: *See—*
Jumentier, Claude; Bonnet, Alain; and Boiteau, Claude, 3,658,633.

Bonnet, Carroll W.: *See—*
Hobbs, Marcus E.; and Bonnet, Carroll W., 3,667,699.

Bonnet, Henri Camille; and Chabert, Jean Edmond. Water-proof article for use in submarine during garments. 3,686,064, 8-22-72, Cl. 161-89.000.

Bonnet, Jean-Loup: *See—*
Nicolas, Yves; and Bonnet, Jean-Loup, 3,664,416.

Bonnet, Jean-Loup, to Schlumberger Technology Corporation. Magnetic suspension densimeter including means to vary float volume and weight. 3,678,760, 7-25-72, Cl. 73-453.000.

Bonnet, Maurice; and Courtes, Georges, to Etablissement Public: Agence Nationale de Valorisation de la Recherche 'Anvar'. Method and devices for the chromatic analysis of an object. 3,664,741, 5-23-72, Cl. 356-74.

Bonnet, Maurice, to Etablissement Public: Agence Nationale de Valorisation de la Recherche (ANVAR). Device for recording and reproducing. 3,675,554, 7-11-72, Cl. 95-18.00p.

Bonnette, Richard Arthur, to RCA Corporation. Filamentary display devices. 3,673,652, 7-4-72, Cl. 29-25.160.

Bonneville, Gerald D.; Hetke, Adolf; and Free, William N., to General Motors Corporation. Friction welder with floating workpiece fixture. 3,702,169, 11-7-72, Cl. 228-2.000.

Bonney, Kenneth Victor, to Hawker Siddeley Aviation Limited. Aircraft. 3,698,664, 10-17-72, Cl. 244-42.0da.

Bonnier, Etienne; Allibert, Colette; Driole, Jean; and Wicker, Alain, to Agence Nationale de Valorisation de la Recherche (ANVAR). Method of separation of a substance in a solid or liquid phase from a matrix in the liquid phase. 3,672,872, 6-27-72, Cl. 75-3.000.

Bonnier, Etienne; Allibert, Colette; Driole, Jean; and Wicker, Alain, to Agence Nationale de Valorisation de la Recherche (ANVAR). Method of preparation of alloys of refractory metals. 3,700,428, 10-24-72, Cl. 75-10.00r.

Bonnis, Peter. Leaf sweeper and loader. 3,704,477, 12-5-72, Cl. 15-79.000.

Bonny, Jean-Pierre, to Portescap, Le. Porte-Echappement Universal S.A. Piezoelectric microphone. 3,690,144, 9-12-72, Cl. 73-6.000.

Bono, David; and Prud'Hon, Lucien, to Association des Ouvriers en Instruments de Precision. Apparatus for determination of alcohol titer in alcoholic liquids. 3,705,015, 12-5-72, Cl. 23-253.00r.

Bonola, Giuseppe; Da Re, Paolo; and Setnikar, Ivo, to Societe d'Exploitations Chimiques et Pharmaceutiques Seceph. 1-Tertiaryamino alkanoyl-2-hydrogen, methyl or phenyl-3-methyl or phenyl-4-oxo-1,2,3,4-tetrahydroquinazolines. 3,637,681, 1-25-72, Cl. 260-24.2.

Bonomi, Antonio. Transport container. 3,684,122, 8-15-72, Cl. 220-1.500.

Bonomo, Joseph A. Baby walking trainer. 3,680,889, 8-1-72, Cl. 280-47.250.

Bons, Ido A., to Whittaker Corporation. Tube torquing device. 3,662,591, 5-16-72, Cl. 73-99.000.

Bonsal, W. R., Company: *See—*
Cloud, Fayette J., Jr., 3,661,365.

Bonsignore, Patrick V., to Rohm & Haas Company. High impact resistant thermoplastic substrate coated with non-embrittling paint system. 3,653,950, 4-4-72, Cl. 117-72.

Bonsignori, Alberto: *See—*
Bernardi, Luigi; Bonsignori, Alberto; Coda, Severina; and Suchowsky, Giselbert Karl, 3,660,322.

Bonsky, Elmer C., to T.A.D. Avanti, Inc. Multi-line coupling system. 3,679,831, 7-25-72, Cl. 179-2.00c.

Bonteil, Robert C., to Societe d'Etudes et d'Exploitation de Procedes pour l'Industrie Alimentaire Sepial. Installation for freezing a liquid or semi-liquid product. 3,670,520, 6-20-72, Cl. 62-314.000.

Bontempi, Ignatius; and De Francisci, Joseph, Jr., to De Francisci Machine Corporation. Alimentary paste product handling machine. 3,656,603, 4-18-72, Cl. 198-20.000.

Bontems, Henri: *See—*
Bonneau, Andre; and Bontems, Henri, 3,647,175.

Bonthelius, Bo Bengt Urban: *See—*
Ulvesand, Sture; and Bonthelius, Bo Bengt Urban, 3,688,723.

Bonton, H. L., Company, Inc.: *See—*
Hirschmann, Jack B., Jr., 3,649,106.

Bonvallet, Roger, to Etablissements Emile Haefely SA. Apparatus for wrapping a conductor bundle. 3,636,691, 1-25-72, Cl. 57-15.

Bonvicini, Alberto; and Cantatore, Giuseppe, to Montecatini Edison S.p.A. Process for preparing substituted 1,4-diazacycloheptanes. 3,640,999, 2-8-72, Cl. 260-239.

Bonvicini, Alberto; and Cantatore, Giuseppe, to Montecatini Edison S.p.A. Blends of polyolefins and polyamides. 3,668,278, 6-6-72, Cl. 260-857.

Bonvicini, Alberto; and Cantatore, Giuseppe, to Montecatini Edison S.p.A. Dye-receptive polyolefin textile fibers comprising synthetic high polymers, and process for their preparation. 3,668,280, 6-6-72, Cl. 260-897.

Bonvicini, Gene; and Caserta, James. Rocking toy. 3,680,857, 8-1-72, Cl. 272-52.000.

Bonyata, John O.; and Rohrbaugh, Lynn G., to Hercules Incorporated. Process of making deterrent coated and graphite glazed smokeless powder. 3,637,444, 1-25-72, Cl. 149-10.

Bonyhard, Peter Istvan; and Nelson, Terence John, to Bell Telephone Laboratories, Incorporated. Dynamic reallocation of information on serial storage arrangements. 3,701,132, 10-24-72, Cl. 340-174.0tf.

Bonzack, Eugene P.: *See—*
Olds, Richard G.; and Bonzack, Eugene P., 3,683,238.

Bonzano, Giogio, to Honeywell Information Systems Italia S.p.A. Print timing and speed control circuit for high speed printers. 3,636,867, 1-25-72, Cl. 101-93.

Bonzano, Giorgio, to Honeywell Information Systems Italia S.p.A. Apparatus for controlling the feeding of paper in high-speed printers. 3,656,041, 4-11-72, Cl. 318-318.

Bonzom, Albert: *See—*
Tramier, Bernard; and Bonzom, Albert, 3,635,999.

Bonzom, Albert; and Tramier, Bernard, to Societe Nationale des Petroles d'Aquitaine. Synthesis of pyrazines. 3,676,442, 7-11-72, Cl. 260-250.00r.

Boockmann, Gerhard: *See—*
Schmidt, Karl; and Boockmann, Gerhard, 3,642,724.

Boocock, David: *See—*
Newman, Michael; and Boocock, David, 3,687,085.
Newman, Michael; and Boocock, David, 3,696,757.

Boocock, David G. B.; and Ullman, Edwin F., to Synvar Associates. 2,4,5-Substituted N-oxy and hydroxyimidazoles. 3,697,538, 10-10-72, Cl. 260-309.000.

Booe, James M., to Mallory, P. R., & Co., Inc. Capacitors utilizing bonded discrete polymeric film dielectrics. 3,649,892, 3-14-72, Cl. 317-258.

Boogert, Lucas W. P.: *See—*
Fehres, Hans; and Boogert, Lucas W. P., 3,696,962.

Booher, Richard N.; and Pohland, Albert, to Lilly, Eli, and Company. Synthesis of nordihydroacronycine and related compounds. 3,657,249, 4-18-72, Cl. 260-279.

Booher, Robert K., to North American Rockwell Corporation. Ratioless and non-inverting logic circuit using field effect boosting devices. 3,678,290, 7-18-72, Cl. 307-205.

Booker, Clyde A., Jr.; and Thompson, Francis T., to Westinghouse Electric Corporation. System for phasing recorded information with input signals. 3,647,953, 3-7-72, Cl. 178-6.6.

Booker, Clyde A., Jr.; and Thompson, Francis T., to Westinghouse Electric Corporation. Continuous display on intermittent video signals. 3,647,954, 3-7-72, Cl. 178-6.6.

Booker, Jasper A. Scooter-type vehicle. 3,664,680, 5-23-72, Cl. 280-87.400.

Booker, Philip P.: *See—*
Lewis, Gerald Perley; Smyth, Robert William; Booker, Philip P.; and Zeliznak, Richard, 3,684,586.

Bookless, George W., to Bell & Howell Company. Quick release magnetic latch for copier exposure station. 3,694,078, 9-26-72, Cl. 355-75.000.

Bookwalter, Charles A., II: *See—*
Cole, Joseph J.; and Bookwalter, Charles A., II, 3,667,486.

Bookwalter, George N.: *See—*

Mustakas, Gus C.; Albrecht, William J.; and Bookwalter, George N., 3,639,129.
Bookwrights, Inc.: *See—*
Sendor, Mortimer S., 3,674,399.
Boole & Babbage, Inc.: *See—*
Holtwick, Gary M.; and Kolence, Kenneth W., 3,644,936.
Boom, Abraham A., to Celanese Corporation. Production of improved semipermeable polybenzimidazole membranes. 3,699,038, 10-17-72, Cl. 210-23.000.
Boom, Roger J.; Cotton, John M.; Goodier, Martin J.; and Cosserat, David C., to Plessey Btr Limited. Method of assembling subroutines. 3,657,736, 4-18-72, Cl. 340-172.500.
Booman, Keith A.: *See—*
Dupre, Jean; and Booman, Keith A., 3,653,095.
Dupre, Jean; and Booman, Keith A., 3,655,582.
Boome, Martin W. Boat hull. 3,698,343, 10-17-72, Cl. 114-66.50p.
Boon, George B.; and Pittenger, Evan W., to Monsanto Company. Vacuum distillation column with tray assembly fastening device. 3,649,466, 3-14-72, Cl. 202-158.
Boon, George B., to Monsanto Company. Heat exchange device. 3,650,319, 3-21-72, Cl. 165-88.
Boon, Joseph L., to Eastman Kodak Company. Facsimile system utilizing single CRT for scanning and image reproduction. 3,663,748, 5-16-72, Cl. 178-6.6.
Boone, Christopher B. Screwless terminal fuse box. 3,704,438, 11-28-72, Cl. 339-95.00d.
Boone, Jerry C.; and Allen, Lawrence E., to Allis-Chalmers Manufacturing Company. Automatic header height control sensed from floating crop engaging mechanism. 3,698,164, 10-17-72, Cl. 56-10.400.
Boone, John J.: *See—*
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Bottcher, Karl-Heinz, to U.S. Philips Corporation, mesne. Method for forming the vacuum-tight closure of a through-connection. 3,638,305, 2-1-72, Cl. 29-628.

Bottcher, Wolfgang; Kopineck, Hermann-Josef; Schlusnus, Karl-Heinz; and Sommerkorn, Gernot, to Hoesch Aktiengesellschaft. Method and apparatus for testing welding seams by ultrasound energy. 3,685,348, 8-22-72, Cl. 73-67.80r.

Bottenbruch, Ludwig: *See—*
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Gilch, Heinrich; Darsow, Gerhard; Bottenbruch, Ludwig; Lorenz, Gunter; Kunzel, Hans Egon; Nischk, Gunther; and Schnell, Hermann, 3,642,882.
Morgenstern, Karl; Schnell, Hermann; Bottenbruch, Ludwig; Court, Otto; Schwarz, Hans-Helmut; and Vernaleken, Hugo, 3,666,719.
Schnell, Hermann; Cziesla, Manfred J.; and Bottenbruch, Ludwig, 3,692,870.
Senge, Ferdinand; Weirauch, Kurt; and Bottenbruch, Ludwig, 3,670,051.
Vernaleken, Hugo; Malamet, Georg; Bottenbruch, Ludwig; Krimm, Heinrich; and Schnell, Hermann, 3,687,895.

Bottger, Erik, to Grubernes Spraengstoffabriker A/S, division of Plastprodukter. Set of containers for two liquids. 3,658,204, 4-25-72, Cl. 220-23.4.

Bottger, Max: *See—*
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Botto, Giuseppe. Apparatus for excavation of deep holes and trenches. 3,640,353, 2-8-72, Cl. 175-202.

Bottomley, Brian Rogers: *See—*
Tittle, John Noel; Bottomley, Brian Rogers; and Warburton, Eric, 3,660,944.

Bottoms, Harry Simister, to Lucas, Joseph, (Industries) Limited. Couplings. 3,691,790, 9-19-72, Cl. 64-23.000.

Bottone, Salvatore, Jr.: *See—*
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Bottorman, David L.: *See—*

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Botts, John C.: *See—*
Simmonds, Leonard B.; and Botts, John C., 3,679,926.
Botts, Marion. Forcep instrument for stripping the contents of flexible tubes. 3,648,701, 3-14-72, Cl. 128-321.
Botts, Marion F.; and Regel, Erik K., to Chemagro Corporation. S,S-dialkyl-amido-dithiophosphates. 3,641,222, 2-8-72, Cl. 260-959.
Bottum, Edward W. Refrigeration suction accumulator. 3,643,465, 2-22-72, Cl. 62-503.
Bottum, Edward W. Refrigeration suction accumulator. 3,643,466, 2-22-72, Cl. 62-503.
Bottum, Edward W. Air conditioning system with suction accumulator. 3,651,657, 3-28-72, Cl. 62-196.
Bottum, Edward W. Drier. 3,656,625, 4-18-72, Cl. 210-266.
Botz, Roland, to Plasti-Fiber Formulations, Inc. Bagasse fiber product and process. 3,694,308, 9-26-72, Cl. 162-55.000.
Bouboulis, Constantine J., to Esso Research and Engineering Company. Process for the preparation of bicyclic amines. 3,661,918, 5-9-72, Cl. 260-293.52.
Boucek, Miroslav; and Jiskra, Miroslav, to Vyzkumny Ustav Bavlnarsky. Spinning machine and method of operating the same. 3,698,174, 10-17-72, Cl. 57-58.950.
Bouchard, Jean; Frison, Roger; and Treille, Pierre, to Degremont, Societe Generale d'Epuration et d'Assainissement. Methods and devices for the regeneration of ion exchangers. 3,655,587, 4-11-72, Cl. 260-2.1.
Bouchard, Richard J.; and Belden, Richard C., to Sanders Associates, Inc. Keyboard encoder. 3,696,408, 10-3-72, Cl. 340-365.000.
Bouchard, Robert J., to Du Pont de Nemours, E. I., and Company. Compositions for making electrical elements containing pyrochlore-related oxides. 3,681,262, 8-1-72, Cl. 252-520.000.
Bouche, Edmund L., to Technical Operations, Incorporated. Diffraction process photography and reconstruction: fidelity enhancement by minimization of crosstalk and moire patterns. 3,640,711, 2-8-72, Cl. 96-27.
Bouche, Raymond R. Method of measuring vibration characteristics of structures. 3,675,471, 7-11-72, Cl. 73-67.000.
Boucher, Gerald, to Sanders Associates, Inc. Method of making electroluminescent display devices having etched character electrodes. 3,657,778, 4-25-72, Cl. 29-25.160.
Boucher, James D.: *See—*
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Boucher, James D., to General Electric Company. Gas-fired heater means. 3,667,451, 6-6-72, Cl. 126-110.00r.
Boucher, James D.; and Hopkins, Jesse L., to General Electric Company. Pilot and main fuel gas supply means for pressurized gas-fired space heater. 3,692,014, 9-19-72, Cl. 126-110.00r.
Boucher, Raymond, to Hedstrom Company. Playseat with stabilizer. 3,692,359, 9-19-72, Cl. 297-258.000.
Boucher, Raymond Claude Emile; Otto, Jean-Louis Marie; and Taxil, Andre Marc Victorin, to International Standard Electric Corporation. Discharge lamp having vapor pressure control means. 3,634,717, 1-11-72, Cl. 313-174.
Boucher, Raymond Marcel Gut, to Wave Energy Systems, Inc. Method of sterilizing liquids. 3,672,823, 6-27-72, Cl. 21-54.00r.
Boucher, Raymond R.; and Phipps, Charles M., Jr., to United Aircraft Corporation. Making directionally solidified castings. 3,667,533, 6-6-72, Cl. 164-60.000.
Boucher, Raymond W. Convertible sidewalk bike. 3,700,251, 10-24-72, Cl. 280-7.110.
Boucher, Robert J., to Hughes Aircraft Company. Digital frequency synthesizer. 3,641,442, 2-8-72, Cl. 328-14.
Boucher, Wilfred M.; Kurilla, John; and Slepp, Alice C., to International Paper Company. Surgical face mask. 3,664,335, 5-23-72, Cl. 128-146.6.
Boucherie, Gerard Benoni. Device for pneumatically clamping pieces of work in transfer machines or suchlike. 3,658,315, 4-25-72, Cl. 269-20.
Boucherle, Andre L.: *See—*
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Boucheron, Bernard: *See—*
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Boucheron, Bernard, to Societe Anonyme: Ethylene-Plastique. Preparation of polythiiranes. 3,651,031, 3-21-72, Cl. 260-79.
Boucheron, Bernard, to Societe Ethylene Plastique. Thiirane copolymers. 3,655,634, 4-11-72, Cl. 260-79.
Bouchet, Jean, to Creusat-Loire, mesne. Direct reduction of oxides. 3,640,701, 2-8-72, Cl. 75-40.
Bouclin, Peter, to United States of America, Navy. Vibroacoustic test method. 3,698,241, 10-17-72, Cl. 73-69.000.
Boucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude, to Rousel-UCLAF. Preparation of 7α-methyl steroids. 3,697,556, 10-10-72, Cl. 260-397.450.
Boucris, Hubert, to Compagnie Generale d'Automatisme. Dispenser for self-adhering label. 3,695,981, 10-3-72, Cl. 156-584.000.
Boudakian, Max M., to Olin Corporation. Method for the preparation of stable 4-fluoropyridine salts. 3,703,521, 11-21-72, Cl. 260-290.0hl.
Boudart, Roger L. Method for processing papaw latex papaya to obtain papain. 3,694,315, 9-26-72, Cl. 195-66.00r.
Boudiak, Jean-Pierre H.: *See—*
Bokshorn, Yves; and Boudiak, Jean-Pierre H., 3,646,284.
Boudiak, Jean-Pierre H.; and Bokshorn, Yves. Prefabricated disconnectable electric station units compartment. 3,634,641, 1-11-72, Cl. 200-150.
Boudot, William Donald; and Carl, Robert C., to Dover Corporation. Shut-off valve assembly. 3,647,182, 3-7-72, Cl. 251-361.
Boudot, William Donald; Wood, Chester W.; and Holder, Charles A., to Dover Corporation. Automatic shut-off dispensing nozzle. 3,653,415, 4-4-72, Cl. 141-208.
Boudouris, Angelo; and Plumadore, Harold M., to Eprad Incorporated. Pick-off device. 3,639,046, 2-1-72, Cl. 352-92.
Boudouris, Angelo; Kulish, Stanley J., Jr.; and Plumadore, Harold M., to Eprad Incorporated. Control for motion picture projectors. 3,640,611, 2-8-72, Cl. 352-92.
Boudouris, Angelo, to Eprad Incorporated. Electrical junction box. 3,651,441, 3-21-72, Cl. 337-186.
Boudouris, Angelo; and Kulish, Stanley J., Jr., to Eprad Incorporated. Admission system for drive-in enterprises. 3,663,936, 5-16-72, Cl. 340-31.
Boudouris, Angelo; and Gray, Geoffrey T., to Eprad Incorporated. Film tensioning device for motion picture projectors. 3,684,144, 8-15-72, Cl. 226-114.000.
Boudouris, Angelo; and Kulish, Stanley J., Jr., to Eprad Incorporated. Apparatus for controlling theater or auditorium functions. 3,684,358, 8-15-72, Cl. 352-25.000.
Boudreau, Alban M., to Hedstrom Company. Carriage pusher handle release. 3,669,463, 6-13-72, Cl. 280-47.370.
Boudreau, Alban M., to Hedstrom Company. Height-adjustable crib. 3,670,344, 6-20-72, Cl. 5-11.000.
Boudreau, Peter. Crime prevention system. 3,680,499, 8-1-72, Cl. 109-32.000.
Bouffiou, Russell D.; and Nielsen, Christian A., to Giddings & Lewis, Inc. Power tool turret assembly. 3,653,282, 4-4-72, Cl. 74-815.
Bougaran, Marcel, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Electrolytic, secondary and primary cells. 3,650,842, 3-21-72, Cl. 136-134.
Bougard, Jacques, to Ateliers J. Hanrez Societe Anonyme. Heater with combustion chamber located below fluid distributing means. 3,648,682, 3-14-72, Cl. 126-359.
Bough, Dale E.: *See—*
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Boughton, John Derek: *See—*
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Bougut, Henry A., to Motorola, Inc. Current limited battery pack. 3,686,530, 8-22-72, Cl. 317-16.000.
Bouhot, Marcel Pierre Alexis. Double acting free wheel. 3,667,575, 6-6-72, Cl. 188-134.000.
Bouhot, Marcel Pierre Alexis. Double acting free wheel. 3,675,745, 7-11-72, Cl. 188-134.000.
Bouilly, Charles: *See—*
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Bouisse, Jean Marie Germain; Martel, Charles Etienne Georges; and Villey-Desmeserets, Franck Pierre Antoine, to Etat Francais. Tracer device for a rocket. 3,706,283, 12-19-72, Cl. 102-87.000.
Boujon, Gerard, to Bobst, J., & Fils, S.A. Method and apparatus for optically positioning printing plates. 3,679,316, 7-25-72, Cl. 356-168.000.
Bouknecht, Max A.: *See—*
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Boulanger, Gilbert; and Samoel, Alain, to Commissariat a l'Energie Atomique. Installation for ultrasonic testing. 3,678,735, 7-25-72, Cl. 73-67.700.
Boulanger, Henry J.: *See—*
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Boulanger, Henry J., to Texas Instruments, Incorporated. Pushbutton keyboard switch assembly with improved over center diaphragm contact. 3,684,842, 8-15-72, Cl. 260-5.00r.
Boulanger, Roger J.: *See—*
Pask, Arthur H.; Sparrow, Robert E.; and Boulanger, Roger J., 3,681,536.
Bould, Fred; and Taylor, John H., to Westinghouse Electric Corporation. Spaced-plate arc-chute for an air-break circuit breaker. 3,662,133, 5-9-72, Cl. 200-144.
Bouligny, R. H., Inc.: *See—*
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King, Charles S. W.; and Pierce, John H., 3,685,755.
King, Charles S. W.; and Pierce, John H., 3,706,407.
Pierce, John H., 3,672,587.
Wilson, Robert W., 3,664,034.
Wolf, Herman B., 3,666,991.

Boulin, Jacques R.; Bertin, Marcel R.; and Nepomiastchy, Alexis, to Societe Anonyme de Telecommunications. Modular elements for electrical filters and filters employing the same. 3,636,481, 1-18-72, Cl. 333-70.

Boulin, Jacques R.; and Nepomiastchy, Alexis, to Societe Anonyme de Telecommunications. Three-terminal modular electric filters. 3,678,419, 7-18-72, Cl. 333-70.00s.

Boult, David Luard, to British Insulated Callender's Cables Limited. Telecommunication cables. 3,706,838, 12-19-72, Cl. 174-25.00r.

Boulter, Thomas W.: *See—*
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Boultinghouse, A. C. Multiple adjustment valve. 3,645,297, 2-29-72, Cl. 137-637.3.

Boultinghouse, Ace: *See—*
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Boulton, Richard C. Fluidic control device. 3,680,595, 8-1-72, Cl. 137-625.480.

Boulva, Paul. Marble game device with removable inserts. 3,690,663, 9-12-72, Cl. 273-110.000.

Boundy, James R., to Sturtevant Engineering Co. Ltd. Machines for processing articles. 3,633,594, 1-11-72, Cl. 134-119.

Bouras, James R., to Bouras Mop Mfg. Co. Mop head construction. 3,651,533, 3-28-72, Cl. 15-229.

Bouras Mop Mfg. Co.: *See—*
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Bourat, Guy, to Rhone-Poulenc S.A. Resins and membranes possessing ionic conductivity comprising reaction products of disultones and polymers containing tertiary amino groups. 3,632,685, 1-4-72, Cl. 260-884.

Bourat, Guy; and Margraff, Rodolphe, to Rhone-Poulenc S.A. Cation exchange membranes and their preparation. 3,689,438, 9-5-72, Cl. 260-2.20r.

Bourbeau, Frank J.: *See—*
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Bourbeau, Frank J., to General Motors Corporation. Cycloconverter silicon controlled rectifier gate signal inhibit circuit. 3,681,676, 8-1-72, Cl. 321-11.000.

Bourbina, Gerand W., to Baker Perkins Inc. Apparatus for removing fluid from a food container. 3,659,717, 5-2-72, Cl. 210-329.

Bourboulis, Cedric D. Surface texturizer. 3,669,069, 6-13-72, Cl. 118-102.000.

Bourdais, Jacques, to Centre National de la Recherche Scientifique. Aminoalkylthio indoles. 3,665,016, 5-23-72, Cl. 260-268.0bc.

Bourdo, Charles A.: *See—*
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Bourette, Jean. Granulated cork and calcined fossil silica filler hot top material. 3,654,199, 4-4-72, Cl. 260-17.2.

Bourg, Haden J., Jr.: *See—*
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Bourg, Michel, to Frankel-Industries. Conveyor system. 3,696,752, 10-10-72, Cl. 104-148.

Bourgault, Pierre Louis; and Fraser, George Herbert, to Johnson, Matthey & Mallory Limited. Ion exchange membrane electrochemical integrator. 3,706,013, 12-12-72, Cl. 317-231.000.

Bourgeaux, Maurice, to Compagnie de Saint-Gobain. Method for the surface treatment of glass. 3,687,649, 8-29-72, Cl. 65-30.000.

Bourgeois, Claude Raymond, to Societe Nouvelle de Roulements. Rolling contact bearing seals. 3,639,016, 2-1-72, Cl. 308-187.2.

Bourgeois, Jacques, to Lesieur-Cotelle, Societe Anonyme. Machine for molding hollow plastic articles by blowing. 3,642,410, 2-15-72, Cl. 425-326.

Bourgeois, Jacques, to Lesieur-Cotelle, General Leclerc. Cutting device for machines for cutting articles made of blown plastics. 3,662,633, 5-16-72, Cl. 82-101.

Bourgeois, Jacques, to Societe a Responsabilite limitee dite SERAM. Differential servo-limiter. 3,680,586, 8-1-72, Cl. 137-501.000.

Bourgeois, Norbert Paul. Needle selector for circular knitting machines. 3,667,253, 6-6-72, Cl. 66-50.

Bourgeois, Norbert Paul, to Etudes et Bonneterie SA. Circular knitting-machine. 3,670,527, 6-20-72, Cl. 66-50.00r.

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Bourget, Robert L.; and Reejhsinghani, Nandlal S., to Monsanto Company. Polymerization process for vinylidene monomers. 3,652,526, 3-28-72, Cl. 260-92.8.

Bourgraf, Elroy E.; and Dunn, Robert E., to Weil, Burt. Cart having collapsible legs. 3,637,232, 1-25-72, Cl. 280-41.

Bourgraf, Elroy E.; and Self, Kenneth R., to Ferno-Washington, Inc. Ambulance cot construction. 3,644,944, 2-29-72, Cl. 5-62.

Bourgraf, Elroy E.; and Self, Kenneth R., to Ferno-Washington Inc. Adjustable break-away splint-stretcher. 3,653,079, 4-4-72, Cl. 5-82.

Bourgraf, Elroy E.; and Self, Kenneth R., to Ferno-Washington Inc. Office machine cart. 3,684,307, 8-15-72, Cl. 280-36.00c.

Bourguet, Jean M.; and Hart, Francis D., to Mobil Oil Corporation. Catalytic cracking process. 3,669,903, 6-13-72, Cl. 252-455.

Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., to International Business Machines Corporation. Triple modular redundancy/sparing. 3,665,173, 5-23-72, Cl. 235-153.000.

Bouricius, Willard G.; Carter, William C.; Duke, Keith A.; Roth, John P.; and Schneider, Peter R., to International Business Machines Corporation. Error tolerant arithmetic logic unit. 3,665,174, 5-23-72, Cl. 235-153.000.

Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., to International Business Machines Corporation. Dynamic storage address blocking to achieve error toleration in the addressing circuitry. 3,665,175, 5-23-72, Cl. 235-153.000

Bouricius, Willard G.; Carter, William Caswell; Roth, John P.; and Schneider, Peter Robert, to International Business Machines Corporation. Status switching in an automatically repaired computer. 3,665,418, 5-23-72, Cl. 340-172.500.

Bourjot, Marcel: *See—*
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Bourke, Edgar R., II; and Snow, Robert C., to Digital Security Systems, Inc. Currency dispensing apparatus. 3,675,816, 7-11-72, Cl. 221-13.000.

Bourke, Robert F.; and Simons, Jon W., to Allis, Louis, Company, The. Tolerable voltage control circuit. 3,656,006, 4-11-72, Cl. 307-252.

Bourland, Andre, to Societe Anonyme d'Explosifs Industriels-Celtite. Arrangements for anchoring supporting pins or bolts. 3,699,687, 10-24-72, Cl. 61-45.00b.

Bourne, David: *See—*
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Bourne, Douglas J.; and Lamb, Frank E., to Duval Corporation. Method of producing soda ash. 3,656,892, 4-18-72, Cl. 23-63.

Bourne, Ronald F., to Asbestos Grading Equipment Company (South Africa) (Proprietary) Limited, The. Dust collectors. 3,648,442, 3-14-72, Cl. 55-294.

Bournez, Lucien. Apparatus for handling rolls of thin metal strips. 3,687,391, 8-29-72, Cl. 242-79.000.

Bourns, Inc.: *See—*
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Froebe, Ronald L.; and Hatch, Howard H., 3,704,436.
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Bourns, Inc., mesne: *See—*
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Gorsuch, Reynolds G., 3,690,318.

Bourquardez, Gaston; and Coffy, Rene Louis, to Societe Nationale Industrielle Aerospatiale. Rotor construction. 3,669,566, 6-13-72, Cl. 416-134.000.

Bourque, Edward L., to Sanders Associates, Inc. Apparatus for providing sensitivity-time control for radar receivers. 3,659,290, 4-25-72, Cl. 343-5.0sm.

Bourquin, Jean-Pierre; Schwarb, Gustav; and Waldvogel, Erwin. 4(1-Alkyl-4-piperidylidine)-4H-benzo[4,5] cyclohepta [1,2-6] thiophen-ones. 3,682,930, 8-8-72, Cl. 260-293.570.

Bourrouilh, Bernard, to Entreprise de Recherches et d'Activites Petrolieres Elf. Optical filtering method and device for data-processing. 3,633,998, 1-11-72, Cl. 350-162.

Bourseau, Robert I., to Architectural Signing, Inc. Negative insert holder for business directories. 3,660,918, 5-9-72, Cl. 40-64.

Boursin, Rene A., to Sovcor Electronique. Encapsulated cardwood type electronic or electrical component assembly. 3,697,818, 10-10-72, Cl. 317-101-cw.

Bourton, Hubert. Snow vehicle for distributing dust on snow surfaces. 3,675,857, 7-11-72, Cl. 239-668.000.

Bousquet, Gilles; and Rambert , Andre, to Association de l'Ecole Catholique d'Arts et Metiers de Lyon. Total knee prosthesis. 3,696,446, 10-10-72, Cl. 3-7.000.

Boussekey, Bernard: *See—*
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Boussin, Serge P.: *See—*
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Jacquot, Michel; and Amicel, Charles, 3,698,619.
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Prislan, Georges, 3,692,508.

Boustany, Kamel, to Monsanto Company. Certain cycloalkylsulfenamides as prevulcanization inhibitors. 3,640,976, 2-8-72, Cl. 260-79.5.

Boustany, Kamel; and D'Amico, John Joseph, to Monsanto Company. Benzothiazole sulfenamides. 3,689,467, 9-5-72, Cl. 260-79.50b.

Boustany, Kamel; and Coran, Aubert Yaucher, to Monsanto Company. Discontinuous cellulose reinforced elastomer. 3,697,364, 10-10-72, Cl. 161-59.000.

Boutet, Jean. Testing device for threaded assembling means or fasteners. 3,638,479, 2-1-72, Cl. 73-88.

Bouthors, Pierre: *See—*
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Bouthors, Pierre; and Quemerais, Philippe, to Regie Nationale des Usines Renault and Automobiles Peugeot. Transmission mechanisms for automobiles and other vehicles. 3,690,192, 9-12-72, Cl. 74-199.000.

Boutineau, Jean-Louis, to Compagnie Generale d'Electricite. Pockels cells. 3,659,917, 5-2-72, Cl. 350-160.

Bouton, Thomas; and Futamura, Shingo, to Firestone Tire & Rubber Company, The. Process for preparing colorless, high-vinyl diene polymers. 3,686,158, 8-22-72, Cl. 260-94.20m.

Boutry, Pierre; Daumas, Jean Claude; and Montarnal, Roger, to Institut Francais du Petrole des Carburants et Lubrifiants. Cyclical process for the dehydrogenation of saturated hydrocarbons. 3,692,860, 9-19-72, Cl. 260-680.00r.

Boutsicaris, Stephen P., to Firestone Tire & Rubber Company, The. Process for preparing thermoplastic polyurethane elastomers. 3,668,185, 6-6-72, Cl. 260-75.0nh.

Boutwell, Ernest D.; and Longfellow, Jack M., to United States of America, Army, mesne. Test circuits for exploding bridgewire power supply. 3,706,031, 12-12-72, Cl. 324-122.000.

Bouvet, Rene' J.; and Daeninckx, Jean Georges, to Societe Anonyme dite: L'Oreal. Castor oil stabilized dimethyl dichlorovinyl phosphate insecticidal vapor-emitting solutions. 3,636,207, 1-18-72, Cl. 424-219.

Bouvier, Anton, to Owens-Illinois, Inc. Fluid bearing structure. 3,649,089, 3-14-72, Cl. 308-9.

Bouwer, Adrianus Gerardus: *See*—
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Bouwers, Albert, to N.V. Optische Industrie de Oude Delft. Image amplifier having external electric static shield. 3,688,146, 8-29-72, Cl. 313-102.000.

Boux, Joseph F.: *See*—
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Bouygues, Jean: *See*—
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Bouyt, Jean Roger, to Centre de Recherches de Pont-A-Mousson. Device for locking and extracting a centrifugal casting shell and removing the cast part from the shell. 3,662,815, 5-16-72, Cl. 164-292.000.

Bouyt, Roger Jean, to Centre de Recherches de Pont-A-Mousson. System for pouring into foundry moulds. 3,682,232, 8-8-72, Cl. 164-326.000.

Bouzard, Daniel: *See*—
Weber, Abraham; Frossard, Jacques Jean; and Bouzard, Daniel, 3,644,417.
Weber, Abraham; Frossard, Jacques Jean; and Bouzard, Daniel, 3,647,877.

Bouzounie, Lucien, to Etablissements Recoules & Fils, Industrielle (France). Tool-carrier with adjustable pre-determined axial travel. 3,689,171, 9-5-72, Cl. 408-112.000.

Bovard, Robert M., to A-T-O Inc. Carbon dioxide absorbing chemical. 3,684,712, 8-15-72, Cl. 252-45.00f.

Bovarnick, Bennett; Eberts, Robert E.; and Nadkarni, Ravindra, to Little, Arthur D., Inc. Method for forming mixed oxide heterogenous catalysts. 3,701,739, 10-31-72, Cl. 252-454.000.

Bovasso, Bernard X. Board game apparatus. 3,643,956, 2-22-72, Cl. 273-130.

Bovenkerk, Harold Paul; and Berecki, William Arthur, to General Electric Company. Resinoid grinding wheels containing nickel-coated cubic boron nitride particles. 3,645,706, 2-29-72, Cl. 51-295.

Bovett, Duane E., to Burroughs Corporation. Dual clock memory access control. 3,703,707, 11-21-72, Cl. 340-172.500.

Boving, Egon, to Sievers, Carl, Firma. Lock, in particular padlock, with tumblers controlled by a magnetic key. 3,657,907, 4-25-72, Cl. 70-38.

Bovio, Ilario, to Olivetti, Ing. C., & C., S.p.A. Serial printing mechanism. 3,683,800, 8-15-72, Cl. 101-93.00c.

Bow, William J.; and Pollard, Richard J., to Foster Wheeler Corporation. Holding system for steam power cycle. 3,705,494, 12-12-72, Cl. 60-105.000.

Bowcott, Roy Price, to Lucas, Joseph, (Industries) Limited. Starter motors for internal combustion engines. 3,663,825, 5-16-72, Cl. 290-38.

Bowcott, Roy Price, to Lucas, Joseph, (Industries) Limited. Dynamo electric machines. 3,665,233, 5-23-72, Cl. 310-234.

Bowden, Billy W. Seat for ball or gate valves. 3,667,727, 6-6-72, Cl. 251-172.

Bowden, Carl L. Automobile exhaust filter. 3,642,259, 2-15-72, Cl. 261-122.

Bowden Controls Limited: *See*—
Hawtree, George; and Hoyle, Edgar, 3,631,731.

Bowden, George F.: *See*—
Maynen, James D.; and Bowden, George F., 3,664,630.

Bowden, James E.; and Glick, William L. Interconnecting carrier bodies for semiconductor devices. 3,701,079, 10-24-72, Cl. 339-36.000.

Bowden, James G., III, to Grace, W. R., & Co. Multi-ply press packing for the impression member in a letter press. 3,652,376, 3-28-72, Cl. 161-159.

Bowden, Roy Dennis, to Imperial Chemical Industries Limited. Pyridine derivatives and the preparation thereof. 3,651,071, 3-21-72, Cl. 260-296.

Bowden, Roy Dennis, to Imperial Chemical Industries, Limited. Manufacture of bipyridyls. 3,673,199, 6-27-72, Cl. 260-296.00d.

Bowden, Roy Dennis, to Imperial Chemical Industries Limited. Process for producing 4, 4'-bipyridyl from 4,4'-bi(4H)pyran or 4,4'-bipyrylene by ammoxidation. 3,704,238, 11-28-72, Cl. 260-296.00d.

Bowden, Wade R., Jr.: *See*—
Cheh, Ernest L.; Bowden, Wade R., Jr.; and Anderson, James D., 3,661,029.

Bowditch, Hoel L.: *See*—
Beardsley, Earl A.; Bowditch, Hoel L.; and Prescott, Robert C., 3,680,580.

Bowditch, Hoel L., to Foxboro Company, The. Pneumatic interconnection board. 3,631,881, 1-4-72, Cl. 137-271.

Bowe, Bohler & Weber: *See*—
Fuhring, Heinrich; Fleschhut, Richard; and Wolter, Hans, 3,638,265.

Bowe, Bohler & Weber KG Maschinenfabrik: *See*—
Fuhring, Henrich; and Fleschhut, Richard, 3,662,417.
Sieber, Johannes Helmut, 3,701,625.

Bowe, Bohler & Weber KG Maschinenfabrik Firma: *See*—
Wanner, Rudolf; Mader, Berthold; and Mayr, Theodor, 3,633,718.

Bowell, James P., to Little, Miller, Giant Co., Inc. Poultry brooder burner housing. 3,691,996, 9-19-72, Cl. 119-32.000.

Bowen, Burlie R.; and Heemer, William L., Jr. Folding shoe for use in a packaging machine. 3,636,826, 1-25-72, Cl. 93-59.

Bowen, David O.: *See*—
Bertram, James L.; and Bowen, David O., 3,705,115.

Bowen, Dennis Herbert; Mattingley, Neville John; and Sambell, Ronald Alfred James, to United Kingdom Atomic Energy Authority. Apparatus for coating fibres. 3,646,908, 3-7-72, Cl. 118-304.

Bowen, Dennis Herbert; Sambell, Ronald Alfred James; Lambe, Keith Albert Dale; and Mattingley, Neville John, to United Kingdom Atomic Energy Authority. Carbon fibres embedded in glass matrix. 3,681,187, 8-1-72, Cl. 161-170.000.

Bowen, Duane C. Pickup truck camping body. 3,658,375, 4-25-72, Cl. 296-23.0mc.

Bowen, Duane C. Cantilevered camping vehicle bed construction. 3,680,908, 8-1-72, Cl. 296-23.00r.

Bowen, Elba W., to Metals Engineering Corporation. Quick release holder. 3,672,619, 6-27-72, Cl. 248-113.000.

Bowen, Gary W.: *See*—
Berman, Max; and Bowen, Gary W., 3,701,102.

Bowen, Gilbert John. Apparatus for lens generation. 3,685,210, 8-22-72, Cl. 51-33.00w.

Bowen, Howard: *See*—
Short, Ray L., Jr.; Bowen, Howard; and Henderson, David L., 3,693,857.

Bowen, Howard; Henderson, David L.; and Wallace, Richard R., to Harwald Company, Inc., The. Item scheduling system and apparatus therefor. 3,655,945, 4-11-72, Cl. 235-61.1.

Bowen, Jack L.; and Ryan, James H., to Johnson, E. F., Company. Connector. 3,693,132, 9-19-72, Cl. 339-47.00r.

Bowen, John C., to Duriron Company, Inc., The. Diaphragms for high pressure compressors and pumps. 3,661,060, 5-9-72, Cl. 92-102.

Bowen, John C., to Duriron Company, Inc., The. Diaphragms for high pressure compressors and pumps. 3,668,978, 6-13-72, Cl. 92-98.000.

Bowen, John G.: *See*—
Seitz, Lamont J.; and Bowen, John G., 3,635,678.

Bowen, John W.; and Perkins, Donald D., to Columbus Electric Manufacturing Co. Non-snap-acting switch devices with S-shaped contact spring blade. 3,683,144, 8-8-72, Cl. 200-166.00j.

Bowen, Max E. Pressurized applicator for foamed medications and sanitary replacable applicator tip therefor. 3,648,695, 3-14-72, Cl. 128-225.

Bowen, Rafael L., to United States of America, Health, Education and Welfare. Adhesion promoting dental materials. 3,635,889, 1-18-72, Cl. 260-47.

Bowen, Richard E.; and Kleinschmidt, Walter J., to Lilly, Eli, and Company. Method for improving weight gains and reducing gross lesions in chickens exposed to Marek's disease. 3,632,748, 1-4-72, Cl. 424-115.

Bowen, Ronald K.: *See*—
Kantor, Thomas A.; and Bowen, Ronald K., 3,650,734.

Bowen Tools, Inc.: *See*—
Bishop, Thomas R.; and Peil, Archie W., 3,692,316.
Osmun, Dean W.; and Slator, Damon T., 3,689,111.
Slator, Damon T.; and Wilson, Archie R., 3,651,906.
Slator, Damon T.; and Wilson, Archie R., 3,658,270.
Slator, Damon T.; and Peil, Archie W., 3,675,719.
Slator, Damon T.; Bishop, Thomas R.; and Peil, Archie W., 3,689,112.

Slator, Damon T.; and Wilson, Archie R., 3,690,136.
Slator, Damon T.; and Peil, Archie W., 3,690,381.
Slator, Damon T.; and Peil, Archie W., 3,692,107.
Slator, Damon T.; and Burns, Albert L., Jr., 3,694,008.
Bowen, William C.: *See—*
Mock, James W.; and Bowen, William C., 3,645,800.
Bowen, William W., to Du Pont de Nemours, E. I., and Company. Yarn treating jet. 3,703,751, 11-28-72, Cl. 28-1.400.
Bower, Barton K.; and Long, Wendell P., to Hercules Incorporated. Polymerization of 1-olefins with tetrakis (bicycloheptyl) chromium compounds as catalysts. 3,666,743, 5-30-72, Cl. 260-93.700.
Bower, Barton K., to Hercules Incorporated. Tris(bicycloheptyl)chromium. 3,704,259, 11-28-72, Cl. 260-438.50r.
Bower, Barton K., to Hercules Incorporated. Tetra (bicycloheptyl) transition metal compounds. 3,705,916, 12-12-72, Cl. 260-429.300.
Bower, Exil E. Lateral adjustment means for radial arm saws. 3,664,389, 5-23-72, Cl. 143-6.00a.
Bower, George M. Stabilized polyimidazopyrrolones compositions and method of preparation. 3,640,960, 2-8-72, Cl. 260-65.
Bower, James C. Control valve and discharge hose for pressurized fire extinguishers. 3,702,637, 11-14-72, Cl. 169-31.00r.
Bower, Jerry Efton: *See—*
Aschkenasy, Herbert; Schuler, John Joseph, Jr.; and Bower, Jerry Efton, 3,677,984.
Bower, Kenneth F., to United States of America, National Aeronautics and Space Administration. Buffered analog converter. 3,648,275, 3-7-72, Cl. 340-347.
Bower, Kenneth W.; and Jennings, Lewis F., to Varco Incorporated. Static eliminator. 3,702,417, 11-7-72, Cl. 317-2.00f.
Bower, Robert G.: *See—*
Markowitz, Ivan N.; and Bower, Robert G., 3,668,496.
Shneider, Harold M.; and Bower, Robert G., 3,701,524.
Bower, Robert G.; Eveland, Baisel L.; Markowitz, Ivan N.; and Masterson, Earl E., to Honeywell Inc. Card reader. 3,693,967, 9-26-72, Cl. 271-10.000.
Bower, Walter, to Storey, Thos, (Engineers) Limited. Floating landing stages. 3,643,448, 2-22-72, Cl. 61-48.
Bowerman, William R. Compensated phonograph turntable. 3,674,278, 7-4-72, Cl. 274-39.00a.
Bowerman, William R. Flushing system. 3,680,150, 8-1-72, Cl. 4-57.00p.
Bowerman, William R. Data processing card. 3,686,480, 8-22-72, Cl. 235-61.12n.
Bowerman, William R. Fastener. 3,686,616, 8-22-72, Cl. 339-38.000.
Bowers, Brian Alfred: *See—*
McIntosh, Ian Arthur; Bowers, Norman John; Bowers, Brian Alfred; and Miles, Bruce Robert, 3,682,253.
Bowers, Daniel G., to Eastman Kodak Company. Switch apparatus. 3,641,297, 2-8-72, Cl. 200-166.
Bowers, David L., to General Electric Company. Body organ stimulator with interference rejector. 3,677,251, 7-18-72, Cl. 128-419.000.
Bowers, Harry J., Jr., to General Electric Company. Photoflash lamp array with automatic switching. 3,668,421, 6-6-72, Cl. 307-117.
Bowers Instrument Company: *See—*
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Bowers, Jack R.: *See—*
Findeisen, Heinz H.; Kallmeyer, James D.; Sokol David G.; Stein, James H.; Thomas, Thomas R.; and Bowers, Jack R., 3,676,854.
Bowers, Jeffrey L. Elastic projectile and tree-like target. 3,701,531, 10-31-72, Cl. 273-95.00r.
Bowers, John C., to Bowers Instrument Company. Animal conditioned avoidance apparatus. 3,693,590, 9-26-72, Cl. 119-1.000.
Bowers, John O., Jr., to General Dynamics Corporation. Multiplexing systems. 3,665,108, 5-23-72, Cl. 179-15.0bl.
Bowers, John R., to Phillips Petroleum Company. Lambda supported pipeline for arctic use. 3,648,468, 3-14-72, Cl. 61-72.1.
Bowers, Kenneth. Radiation sensitive glossmeter with means to compensate for environmental contaminants. 3,636,361, 1-18-72, Cl. 250-219.
Bowers, Norman John: *See—*
McIntosh, Ian Arthur; Bowers, Norman John; Bowers, Brian Alfred; and Miles, Bruce Robert, 3,682,253.
Bowers, Raymond S., Jr.: *See—*
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Bowers, Regis D., to Chausse Manufacturing Co., Inc. Steam cleaner. 3,701,343, 10-31-72, Cl. 126-271.20r.
Bowers, Richard Charles, to Shell Oil Company. Zero time constant filter using sample-and-hold technique. 3,633,091, 1-4-72, Cl. 321-18.
Bowers, Russell L.; and Napier, Larry E., to Hamilton Cosco, Inc. Electrolytic stripping composition. 3,649,491, 3-14-72, Cl. 204-146.
Bowers, Thomas S., to Hansen, A. L., Mfg. Co. Load holding device. 3,698,678, 10-17-72, Cl. 248-361.000.
Bowes, William M.: *See—*
Burk, Maksymilian; Bowes, William M.; and Krieg, Herman C., Jr., 3,652,208.
Bowie, John S., to Bar Investment Company, Inc. Low velocity gas scrubber. 3,640,513, 2-8-72, Cl. 261-78.
Bowie, William J.: *See—*
Bienwald, Wolfgang F.; and Bowie, William J., 3,646,291.
Bienwald, Wolfgang F.; and Bowie, William J., 3,662,136.
Bowker, David E.: *See—*
Charnock, Harry; and Bowker, David E., 3,703,424.
Bowker, John F.; and Odegard, Warren H., to Black Clawson Company, The. Log diameter scanner including a plurality of photodetectors. 3,698,818, 10-17-72, Cl. 356-160.000.
Bowker, John Kent, to Itek Corporation. Interferometer of the center balance type. 3,671,130, 6-20-72, Cl. 356-106.000.
Bowker, John Kent, to Itek Corporation. Detail boundary detection systems. 3,696,249, 10-3-72, Cl. 250-220.00m.
Bowlby, James F. G. Single use film developer. 3,646,873, 3-7-72, Cl. 95-89.
Bowlby, James F. G. Single use film developer and film/developer package coupling means therefor. 3,680,464, 8-1-72, Cl. 95-89.00r.
Bowlby, James F. G. Single use film developer and improved wiper means therefor. 3,680,465, 8-1-72, Cl. 95-89.00r.
Bowlby, James F. G. Single use film developer and automatic, rupturable developer package therefor. 3,680,466, 8-1-72, Cl. 95-90.000.
Bowlby, James F.G. Photographic film developing apparatus. 3,646,872, 3-7-72, Cl. 95-89.
Bowles, Arnold G.; and Follette, Neil, to National Forge Company. High production isostatic molding device. 3,698,843, 10-17-72, Cl. 425-86.000.
Bowles, Arnold Gordon, to National Forge Company. Pressure vessel power lead-through. 3,660,593, 5-2-72, Cl. 174-152.
Bowles, Arnold Gordon, to National Forge Company. High production isostatic molding device. 3,677,674, 7-18-72, Cl. 425-78.000.
Bowles Engineering Corporation: *See—*
Bauer, Peter, 3,645,442.
Bowles, Romald E., 3,683,166.
Bowles Fluidics Corporation: *See—*
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Bowles, Romald E.; and Stouffer, Ronald D., 3,687,147.
DiCamillo, Carmine V., 3,667,492.
Freeman, Peter A., 3,675,672.
Kopera, Anthony, 3,677,276.
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Bowles, Harry L. Cyclone incinerator. 3,654,881, 4-11-72, Cl. 110-8.
Bowles, Lloyd W.: *See—*
Harrison, Lee, III; Honey, Francis J.; Tajchman, Edwin J.; and Bowles, Lloyd W., 3,662,374.
Bowles, Romald E., to Bowles Engineering Corporation. Fluidic systems having adaptive gain dependent upon input signal parameters. 3,683,166, 8-8-72, Cl. 235-200.000.
Bowles, Romald E.; and Stouffer, Ronald D., to Bowles Fluidics Corporation. Jet velocity augmentation apparatus. 3,687,147, 8-29-72, Cl. 137-1.000.
Bowles, William R., to Phillips Petroleum Company. Method and apparatus for forming a foundation-leg assembly for and offshore platform. 3,677,113, 7-18-72, Cl. 61-46.000.
Bowling, Clarence C. Containers for fixing, holding, and storage of dead insect specimen. 3,698,101, 10-17-72, Cl. 35-20.000.
Bowling, Edward L., to Cornell-Dubilier Electric Corporation. Electrolytic capacitor with extended electrode for support in the container. 3,681,666, 8-1-72, Cl. 317-230.000.
Bowling, George W., to United States of America, Army. Apparatus for continuous emulsification. 3,684,251, 8-15-72, Cl. 259-8.000.
Bowling, George W.; Conlisk, Peter J.; and Lenzen, Kenneth H., to Monsanto Company. Damping system. 3,691,712, 9-19-72, Cl. 52-393.000.
Bowling, Harold F.: *See—*
Hall, Maurice B., 3,670,428.
Bowling, Joseph L., Jr., to Carborundum Company, The. Abrasive blast cleaning system. 3,694,964, 10-3-72, Cl. 51-9.000.
Bowman, Arthur J., Jr.: *See—*
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Bowman, Bobby R.: *See—*
Drelich, Arthur H.; and Bowman, Bobby R., 3,692,653.
Drelich, Arthur H.; and Bowman, Bobby R., 3,706,595.
Bowman, Edward L., to Phillips Petroleum Company. Zinc-containing polymer compositions. 3,687,881, 8-29-72, Cl. 260-23.70m.
Bowman Enterprises, Inc.: *See—*
Bowman, Vernon D., 3,678,869.
Bowman, James L.: *See—*
Bresee, Heber J.; and Bowman, James L., 3,656,031.
Bowman, Joe; and Edwards, James D., to Scott & Fetzer Company, The. Sequential timer. 3,683,711, 8-15-72, Cl. 74-142.000.
Bowman, John Michael, to Du Pont de Nemours, E. I., and Company. Guanidine and amidine accelerators for vulcanization of fluoroelastomers. 3,686,143, 8-22-72, Cl. 260-470.0up.

Bowman, Karl R.; Jemison, Lawrence L., Jr.; and Parker, Orval H., to General Motors Corporation. Anti-glare rear view mirror with housing molded of plastic material. 3,692,387, 9-19-72, Cl. 350-281.000.
Bowman, Mark M., Jr., to Phillips Petroleum Company. Repelling of marine animal pests. 3,679,466, 7-25-72, Cl. 117-127.000.
Bowman, P. H., Company, Inc.: *See—*
Petersen, George R., 3,673,671.
Bowman, Paul F. Glue dobbing and tray forming method and apparatus. 3,636,920, 1-25-72, Cl. 118-243.
Bowman, Paul F., to Broach Systems, Inc. Box machine. 3,640,189, 2-8-72, Cl. 93-49.
Bowman, Ronald W.; and Hall, Alvin Lee, to Shell Oil Company. Control of a steam zone. 3,682,244, 8-8-72, Cl. 166-252.000.
Bowman, Vernon D., to Bowman Enterprises, Inc. Air heater and exhaust gas diluting apparatus for incinerator. 3,678,869, 7-25-72, Cl. 110-8.00r.
Bowman, Vernon D. Smokeless anti-toxic burner apparatus. 3,702,756, 11-14-72, Cl. 23-277.00c.
Bowman, Wayne A., to Eastman Kodak Company. Photographic element comprising amine containing polymers. 3,702,249, 11-7-72, Cl. 96-84.00r.
Bowman, William G., to Petro-Tex Chemical Corporation. Purification of poly(maleic acid). 3,634,503, 1-11-72, Cl. 260-537.
Bowmar/Tic, Inc.: *See—*
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Bown, Delos E.: *See—*
Schultz, Henry G.; Williams, Herschel C.; Neureiter, Norman P.; and Bown, Delos E., 3,655,718.
Bown, Delos E.; Neureiter, Norman P.; Schutze, Henry G.; and Williams, Herschelic, to Esso Research and Engineering Company, mesne. Stabilizer system. 3,691,132, 9-12-72, Cl. 260-45.850.
Bowne, Lloyd Marshall: *See—*
Knopf, Robert John; Bowne, Lloyd Marshall; and Hiser, Robert Darrell, 3,663,506.
Bowring, David John, to G.K.N. Sankey Limited. Coin-operated vending machines. 3,703,229, 11-21-72, Cl. 194-10.000.
Bowring, Graeme, to Schermuly Limited. Striker mechanisms for percussion igniters. 3,685,451, 8-22-72, Cl. 102-70.000.
Bowser, Gary L.; and Lenhardt, Roger D., to Owens-Illinois, Inc. Liquid dispenser. 3,661,189, 5-9-72, Cl. 141-1.
Bowser, George H.; Shoop, Vernon A.; and Pyzewski, Stanley J., to PPG Industries, Inc. Packaging arrangement for a multiple glazed unit spacer assembly. 3,657,900, 4-25-72, Cl. 62-388.
Bowser, George H.; Shoop, Vernon A.; Pyzewski, Stanley J.; Mazzoni, Renato J.; and Bologna, John P., to PPG Industries, Inc. Method for fabricating a multiple glazed unit. 3,669,785, 6-13-72, Cl. 156-109.000.
Bowser, John O., to Aluminum Company of America. Insulation support. 3,664,079, 5-23-72, Cl. 52-479.
Bowser, Merle L.: *See—*
Murphy, John N.; and Bowser, Merle L., 3,638,035.
Bowthorpe-Hellermann Limited: *See—*
Bloch, Walter; and Stevens, Christopher Richard, 3,702,371.
Bowyer, Kern M.; and Coursen, David L., to Du Pont de Nemours, E. I., and Company. Assembly for recognizing underwater acoustic signals. 3,660,808, 5-2-72, Cl. 340-5.
Box, E. O., Jr.; and Uhrick, David A., to Phillips Petroleum Company. Highly calcined support for catalytic dehydrogenation. 3,641,182, 2-8-72, Cl. 260-680.
Box, E. O., Jr.; Drehman, Lewis E.; and Farha, Floyd E., Jr., to Phillips Petroleum Company. Tin impregnation regeneration of group VIII reforming-dehydrogenation catalysts. 3,674,706, 7-4-72, Cl. 252-412.000.
Box, E. O., Jr., to Phillips Petroleum Company. Dehydrogenation catalyst Group VIII metals on tin-containing supports dehydrogenation catalysts. 3,692,701, 9-19-72, Cl. 252-466.00b.
Box Innards, Inc.: *See—*
Peters, Charles L., 3,685,401.
Peters, Charles L., 3,691,859.
Box, Theodor. High-impact plastic carrying and stacking case with hinged cover. 3,655,088, 4-11-72, Cl. 220-29.000.
Box, Theodor. Plastic nesting and stacking case. 3,659,743, 5-2-72, Cl. 220-97.00f.
Boxall, Ronald Stanley George; and Dennes, Anthony Charles, to Mars Incorporated. Electrical/electronic coin or token indentification system. 3,653,481, 4-4-72, Cl. 194-100.
Boxer, Leo M.; and Boxer, Robert W., 20% to Pauls, James D., 10% to Burton, Robert R., 10% to Menaker, Warren M., 10% to Smith, James, 10% to Ooms, Owen J. and 4% to Frank, Eli C. Safety cap. 3,703,974, 11-28-72, Cl. 215-9.000.
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Boxer, Leo M.; and Boxer, Robert W., 3,703,974.
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Boxman, Peter; and Frederik, Johannes van Roessel, to Philips Broadcast Equipment Corporation. Chroma key circuit. 3,678,182, 7-18-72, Cl. 178-5.40r.
Boxton-Beel, Inc.: *See—*
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Boy, Peter; Kohler, Heinz; and Lucke, Heinz, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Thread-cutting mechanism for circular-knitting machines. 3,648,485, 3-14-72, Cl. 66-134.
Boyce, Alden C., to Rota-Matic, Inc. Method of and apparatus for cooling of rotational casting apparatus. 3,640,338, 2-8-72, Cl. 165-48.
Boyce, David C.: *See—*
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Boyce, Kenneth D.: *See—*
Welch, Robert H.; and Boyce, Kenneth D., 3,683,159.
Boyce, Kenneth D., to Diversified Electronics Co., Inc. Calculator input means to bypass conventional keyboard input. 3,654,449, 4-4-72, Cl. 235-156.
Boyce, Kenneth E.: *See—*
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Boyce, Walter A., to Westinghouse Electric Corporation. Subminiature electric lamp having a composite envelope. 3,636,398, 1-18-72, Cl. 313-317.
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Boychuk, Ronald R.; and Slettemoen, Sigmund I., to Canadian Ingersoll-Rand Company, Limited. Water valve for rock drills. 3,656,508, 4-18-72, Cl. 137-495.
Boyd, Carl L., to Eastman Kodak Company. Multiple altitude signaling device. 3,668,621, 6-6-72, Cl. 340-27.00r.
Boyd, Charles L.: *See—*
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Boyd, Charles L.; and Roach, James D., to Halliburton Company. Magnetic pickup element adapter for flowmeters. 3,680,379, 8-1-72, Cl. 73-231.00r.
Boyd, Clarence L.: *See—*
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Boyd, David M.: *See—*
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Boyd, David M., to Universal Oil Products Company. Fluid distribution for fluid-solids contacting chambers. 3,652,450, 3-28-72, Cl. 208-146.
Boyd, David M., to Universal Oil Products Company. Fluid distribution for fluid-solids contacting chambers. 3,652,451, 3-28-72, Cl. 208-146.
Boyd, David M.; and Gerhold, Clarence G., to Universal Oil Products Company. Control system for an engine system. 3,696,618, 10-10-72, Cl. 60-276.000.
Boyd, David M., Jr.: *See—*
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Boyd, Eugene J., to United States Tobacco Company. Reciprocating twister pipe cleaner machine. 3,646,743, 3-7-72, Cl. 57-5.
Boyd, Gary Delane; Buehler, Ernest; and Gandrud, William Bentley, to Bell Telephone Laboratories, Incorporated. Coherent optical devices employing zinc germanium phosphide. 3,675,039, 7-4-72, Cl. 307-88.300.
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Davies, Walter J.; Hatton, Barry; Boyd, George C.; and Hanlan, Harvey E. W., 3,704,676.
Boyd, George M. Navigation aid. 3,692,238, 9-19-72, Cl. 235-88.000.
Boyd, James W.; and Bessett, Clifford H., to Packaging Corporation of America. Carton lock construction. 3,645,436, 2-29-72, Cl. 229-44.
Boyd, James W.; and Bessett, Clifford H., to Packaging Corporation of America. Tray construction. 3,701,447, 10-31-72, Cl. 217-26.500.
Boyd, Joe T.; and Jacumin, Emile, Jr., to Deering Milliken Research Corporation. Textile material with soil release characteristics. 3,632,421, 1-4-72, Cl. 117-138.8.
Boyd, John A. Incinerator conversion means. 3,685,439, 8-22-72, Cl. 100-215.000.
Boyd, John A. Chute sanitizer and fire extinguisher. 3,690,560, 9-12-72, Cl. 239-195.000.
Boyd, John A. Trash compaction shelter incorporating a removable container. 3,691,943, 9-19-72, Cl. 100-215.000.
Boyd, John A. Kitchen compactor. 3,691,944, 9-19-72, Cl. 100-229.00a.
Boyd, John A. Feeding unit. 3,702,650, 11-14-72, Cl. 193-34.000.
Boyd, Joseph Emmett. Scaffolding. 3,682,271, 8-8-72, Cl. 182-152.000.
Boyd, Loyce M.; and Boyd, Clarence L. Foldable transportation device. 3,700,057, 10-24-72, Cl. 180-1.00r.
Boyd, Michael David. Rotary fluid flow machines. 3,667,876, 6-6-72, Cl. 418-68.
Boyd, Reed L. Rotating disc scraper. 3,678,532, 7-25-72, Cl. 15-236.000.
Boyd, Ronald G.: *See—*
Rudolph, Nathan H.; and Boyd, Ronald G., 3,688,717.
Boyd, Sherman H., Jr., to Stromberg Datagraphix, Inc. Surface deformation imaging process. 3,674,591, 7-4-72, Cl. 156-272.000.

Boyd, William R.; and Franklin, Robert C., to Beckman Instruments, Inc. Overspeed detection system. 3,636,545, 1-18-72, Cl. 340-263.

Boyd, William Richard; and Franklin, Robert C., to Beckman Instruments, Inc. Differential amplifier circuit. 3,667,063, 5-30-72, Cl. 330-2.000.

Boyd, Wilton E., to General Electric Company. Electric vacuum cleaner construction. 3,634,905, 1-18-72, Cl. 15-350.

Boyd, Woodrow. Motor powered plow. 3,647,005, 3-7-72, Cl. 172-259.

Boydell, Kenneth Raymond, to Dowty Technical Developments, Limited. Hydraulic apparatus. 3,636,818, 1-25-72, Cl. 91-475.

Boydell, Kenneth Raymond, to Dowty Technical Developments Limited. Hydraulic apparatus. 3,647,321, 3-7-72, Cl. 417-222.

Boydell, Kenneth Raymond; and Flint, John Christopher Eglington, to Dowty Technical Developments Limited. Hydraulic apparatus. 3,667,867, 6-6-72, Cl. 417-222.000.

Boydman, Hyman P.: *See—*
Tepper, Sidney; and Boydman, Hyman P., 3,641,703.

Boydston, Edward A. Hydraulic jump captured air bubble vessel. 3,664,289, 5-23-72, Cl. 114-67.

Boye, Erhard; and Landin, Eric, to Gunnebo Bruks Aktiebolag. Fastening clip intended to be fastened with a nail driving tool. 3,638,892, 2-1-72, Cl. 248-300.

Boyer & Abbott Enterprises, Inc.: *See—*
Boyer, Oscar E., 3,665,897.

Boyer, Barton H., III, to Varo Inc. Contact printer for photosensitive material. 3,644,039, 2-22-72, Cl. 355-85.

Boyer, Charles B.: *See—*
Gripshover, Paul J.; Boyer, Charles B.; and Harth, George H., III, 3,633,264.

Boyer, Charles D., to Allegheny Ludlum Steel Corporation. Surface finishing. 3,658,603, 4-25-72, Cl. 148-6.16.

Boyer, Fred S. Locking devices. 3,677,434, 7-18-72, Cl. 220-59.000.

Boyer, Fred S. Locking devices. 3,706,390, 12-19-72, Cl. 220-25.000.

Boyer, George Wesley, to Leach Corporation. Tape cartridge. 3,650,495, 3-21-72, Cl. 242-192.

Boyer, George Wesley, to Leach Corporation. Tape transport assembly. 3,656,705, 4-18-72, Cl. 242-199.

Boyer, Jackson S.: *See—*
Bathgate, Robert J.; and Boyer, Jackson S., 3,639,322.
Cassar, Richard D.; and Boyer, Jackson S., 3,632,846.
Cassar, Richard D.; and Boyer, Jackson S., 3,644,284.
Mills, Ivor W.; Dimeler, Glenn R.; Kirk, Merritt C., Jr.; and Boyer, Jackson S., 3,699,071.

Boyer, Jacques, to Societe Rhodiaceta. Double-twist spindle. 3,640,060, 2-8-72, Cl. 57-58.84.

Boyer, John R.; and Scarlett, Charles C. Pole-top structure for electric distribution lines. 3,649,740, 3-14-72, Cl. 174-43.

Boyer, Joseph E., to Owens-Illinois, Inc. Apparatus for trimming blown plastic articles. 3,677,454, 7-18-72, Cl. 225-99.000.

Boyer, Joseph M. Tunable radio antenna. 3,680,135, 7-25-72, Cl. 343-742.000.

Boyer, Lola Elizabeth: *See—*
Boyer, Richard G.; and Boyer, Lola Elizabeth, 3,652,092.

Boyer, Lyndon D.; Coldiron, Arnold L.; and Wong, Soon Y., to Continental Oil Company. Process for producing free halogen from hydrogen halide and utilizing the free halogen in halogenation reactions. 3,655,801, 4-11-72, Cl. 260-671.

Boyer, Lynn Forrest; and Johnson, Anderson Forbes, Jr., to Western Electric Company, Incorporated. Selective coating. 3,695,928, 10-3-72, Cl. 117-212.000.

Boyer, Marcel Louis, to C.I.T.-Compagnie Industrielle des Telecommunications. Single sideband system with means for compensating for doppler shift. 3,634,766, 1-11-72, Cl. 325-65.

Boyer, Marcel Louis, to CIT-Compagnie Industrielle des Telecommunications. Control arrangement for narrow band switching filter. 3,639,852, 2-1-72, Cl. 331-1.

Boyer, Marcel-Louis, to C.I.T.-Compagnie Industrielle des Telecommunications. Control circuit for inductive loads. 3,634,733, 1-11-72, Cl. 317-148.

Boyer, Marcel-Louis. Vibration damping system for pinch roller. 3,693,861, 9-26-72, Cl. 226-177.000.

Boyer, Nicodemus E., to Borg-Warner Corporation. Self-extinguishing polymeric compositions. 3,632,544, 1-4-72, Cl. 260-30.4.

Boyer, Oscar E., to Boyer & Abbott Enterprises, Inc. Steam injection device for internal combustion engine. 3,665,897, 5-30-72, Cl. 123-25.00b.

Boyer, Peter W., to Bendix Corporation, The. Detent mechanism for brake booster. 3,646,850, 3-7-72, Cl. 91-391.

Boyer, Richard G.; and Boyer, Lola Elizabeth. Astrology board game apparatus. 3,652,092, 3-28-72, Cl. 273-134.

Boyer, Robert A.; Schulz, Arthur A.; and Schatzman, Edmond A., to Ralston Purina Company. Method of preparing rehydratable dehydrated protein products. 3,644,121, 2-22-72, Cl. 99-17.

Boyer, Robert A.; Schulz, Arthur A.; Oborsh, Edward V.; and Brown, Arthur V., to Ralston Purina Company. Textured protein products. 3,662,673, 5-16-72, Cl. 99-17.

Boyer, Simone L.; and Caridi, Roger, to Eastman Kodak Company. Method of spectrally sensitizing photographic silver halide emulsions. 3,676,147, 7-11-72, Cl. 96-130.000.

Boyer, Wesley D. Air leveling system for an automotive vehicle. 3,633,935, 1-11-72, Cl. 280-124.

Boyer, Wesley D., to Ford Motor Company. Ignition system supplying continuous source of sparks. 3,666,989, 5-30-72, Cl. 315-219.000.

Boyer, William M.; and Hattori, Kiyoshi. Novel fiber glass-reinforced resin compositions and processes for their preparation. 3,654,219, 4-4-72, Cl. 260-41.5.

Boyes, Bill A. Golf cup retaining holder. 3,643,944, 2-22-72, Cl. 273-34.

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Boyhont, Donald S.; and Souders, Marvyn L., to Fuller Company. Pulverulent material conveying apparatus. 3,704,917, 12-5-72, Cl. 302-50.000.

Boyko, Eugene S.; and Campbell, Joseph. Fabrication of nuclear fuel assemblies and resultant product. 3,683,148, 8-8-72, Cl. 219-137.000.

Boylan, Francis J., to Hercules Incorporated. Method of abating foam formation in aqueous systems. 3,705,859, 12-12-72, Cl. 252-321.000.

Boylan, Jack B.; and Sturwold, Robert J., to Emery Industries, Inc. Flexibilized phenol-formaldehyde resins. 3,679,617, 7-25-72, Cl. 260-19.00r.

Boylan, John F. Filter cleaning device. 3,665,547, 5-30-72, Cl. 15-406.000.

Boylan, Joseph S., to McNeil Corporation. In-plant cleaning system. 3,675,849, 7-11-72, Cl. 239-124.000.

Boylan, Thomas E., to Norcross, Inc. Display rack. 3,687,091, 8-29-72, Cl. 108-60.000.

Boyland, Albert Henry John: *See—*
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Boyle, Donald Francis, to Motorola, Inc. Ultrasonic metallic sheet-frame bonding. 3,698,075, 10-17-72, Cl. 29-470.100.

Boyle, John P.; Murphy, Clarence R.; and Walsh, William L., to Gulf Research & Development Company. Hydrobromination of alpha-olefins. 3,699,179, 10-17-72, Cl. 260-663.000.

Boyle, William Joseph, Jr., to Delta Marine Control; division of Unitec Industries, Inc. Universal beam clamp. 3,660,871, 5-9-72, Cl. 24-73.

Boyles, Elmo N., to Disco Industries, Inc. Disc brake apparatus. 3,637,053, 1-25-72, Cl. 188-71.1.

Boyles, Elmo N., to Disco Industries, Inc. Disc brake apparatus. 3,698,518, 10-17-72, Cl. 188-72.500.

Boyles, Homer T.: *See—*
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Boyles Industries Limited, mesne: *See—*
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Wolda, Tiete O., 3,704,756.

Boyles, Robert L.: *See—*
Polonsky, Samuel; and Boyles, Robert L., 3,683,524.

Boyles, Robert L., to General Electric Company. Digital display indicator. 3,683,523, 8-15-72, Cl. 40-28.00c.

Boyme, Theodore, to National Can Corporation. Soldering flux. 3,689,327, 9-5-72, Cl. 148-23.000.

Boyne, Ivor Fenwick, to GKN Windsor Limited. Twin screw extrusion presses. 3,690,623, 9-12-72, Cl. 259-192.000.

Boynton, James S.: *See—*
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Boynton, Richard Studley. Moment of inertia measuring instrument. 3,693,413, 9-26-72, Cl. 73-65.000.

Boyriven, Paul, to Compagnie Industrielle de Mecanismes. Safety device for electrical window. 3,662,491, 5-16-72, Cl. 49-28.000.

Boyriven, Paul, to Compagnie Industrielle de Mecanismes. Ball or roller fastening device. 3,671,064, 6-20-72, Cl. 292-45.000.

Boyriven, Paul, to Compagnie Industrielle de Mecanismes. Safety device for electrical window regulator. 3,702,960, 11-14-72, Cl. 318-266.000.

Boyse, Alan: *See—*
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Boysen, Gerd C.; and Hannula, Raymond H., to Allen-Bradley Company. Coil plate assembly. 3,691,493, 9-12-72, Cl. 336-65.000.

Boyte, Jack D. Golf club swing training aid. 3,679,214, 7-25-72, Cl. 273-189.00r.

Boyter, Walter C.: *See—*
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Bozanic, Donald A.; Minarik, Ronald W.; and Mergerian, Dickron, to Westinghouse Electric Corporation. Electron spin echo system having RF pulse inversion preparation of the spin echo sample. 3,663,952, 5-16-72, Cl. 324-.50r.

Bozanic, Donald A.; Mergerian, Dickron; and Minarik, Ronald W., to Westinghouse Electric Corporation. Broadband zero field exchange echo system. 3,671,855, 6-20-72, Cl. 324-.500.
Bozano, Michel, to Societe Rhodiaceta. Fancy yarn, and process and device producing it. 3,683,610, 8-15-72, Cl. 57-140.00j.
Bozarth, Joseph L.: *See—*
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Bozek, John S., to Continental Can Company, Inc. Cover interlocking preventive device. 3,632,016, 1-4-72, Cl. 220-97.
Bozek, John S., to Continental Can Company, Inc. Trimming head for metal cans. 3,646,840, 3-7-72, Cl. 82-82.
Bozeman, Wright D.; and Blackwell, Clifford D., to Inland Steel Company. Apparatus for controlling coating thickness. 3,667,425, 6-6-72, Cl. 118-63.000.
Bozenhard, Walter Frank: *See—*
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Bozik, John E.; and Swift, Harold E., to Gulf Research & Development Company. Preparation of tolualdehydes. 3,636,157, 1-18-72, Cl. 260-599.
Bozik, John E.; Swift, Harold E.; and Wu, Ching-Yong, to Ameripol, Inc. Coordination polymerization catalyst. 3,677,968, 7-18-72, Cl. 252-431.00n.
Bozik, John E.; Swift, Harold E.; and Wu, Ching Yong, to Ameripol, Inc., mesne. Polymerizing unsaturated monomers with a catalyst of an iron complex, a dialkyl aluminum compound and a bidentate ligand. 3,678,022, 7-18-72, Cl. 260-88.700.
Bozik, John E.; Swift, Harold E.; and Wu, Ching-Yong, to Goodrich-Gulf Chemicals Inc. Polymerization process and catalyst system therefor. 3,703,483, 11-21-72, Cl. 260-2.00a.
Bozler, Carl O., to Ohio State University, The. Apparatus for growing films. 3,636,919, 1-25-72, Cl. 118-48.
Bozoian, Michael, to Ford Motor Company. Vehicle speed responsive warning actuating system. 3,639,896, 2-1-72, Cl. 340-62.
Bozoian, Michael, to Ford Motor Company. Wide-band noninductive frequency doubler. 3,648,062, 3-7-72, Cl. 307-220.
Bozoyan, Edward. Digital control devices with mechanical conversion. 3,686,970, 8-29-72, Cl. 74-479.000.
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Capp, Clifford William; Harris, Brian Walton; and Hawkins, Edwin George Edward, 3,676,430.
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Evans, Edward Michael; and Jeffreys, Kerry David, 3,655,609.
Fox, David Brian; and Gintz, Francis Paul, 3,632,542.
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Hall, Antony Harold Patrick; and Dancer, Stuart Neil, 3,705,152.
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Martin, David Eric; and Palmer, Brian Michael, 3,668,270.
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Braak, Edmund C., to Hercules Incorporated. Protective surface covering having heat and moisture resistant properties for caseless ammunition. 3,703,868, 11-28-72, Cl. 102-103.000.
Braas, Alfred, to Armaturenwerk Niedersheld GmbH. Quick-acting valve with rocker-type operating button. 3,646,958, 3-7-72, Cl. 137-553.
Braaten, Norman J., to Linquist & Vennum, mesne. Finger-touch faceplate. 3,696,409, 10-3-72, Cl. 340-365.000.
Braatz, Frederick W. Campers D. U. O. 3,633,229, 1-11-72, Cl. 7-14.55.
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Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,646,048.
Brabander, Herbert Joseph; and Wright, William Blythe, Jr., to American Cyanamid Company. N-morpholinoalkyl-thieno[3,2-b] pyrrole-5-carboxamides. 3,706,810, 12-19-72, Cl. 260-247.100.
Brabazon, John J. Knee support. 3,677,265, 7-18-72, Cl. 128-80.00c.
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Brace, Lloyd D., Jr.: *See—*
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Brace, Robert J.; and Fienberg, Meyer. Alarm system and method of incorporating magnetic switch means magnetically controlled electrical switches. 3,636,547, 1-18-72, Cl. 340-280.
Brach, Paul J.; and Six, Hugh A., to Xerox Corporation. Process for preparing X-form metal-free phthalocyanine. 3,657,272, 4-18-72, Cl. 260-314.5.
Bracht, Armand. Temperature-dependent switching device. 3,633,142, 1-4-72, Cl. 337-334.
Brack, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Naphtholactam-(1,8) basic dyestuffs. 3,673,182, 6-27-72, Cl. 260-242.000.
Brack, Karl, to Hercules Incorporated. Sulfur dioxide addition product. 3,632,586, 1-4-72, Cl. 260-283.
Brack, Karl; Gorey, Edward F.; and Schwuttke, Guenther H., to International Business Machines Corporation. Monocrystalline semiconductor body having dielectrically isolated regions and method of forming. 3,666,548, 5-30-72, Cl. 117-212.000.
Brack, Karl, to Hercules Incorporated. Cross-linkable unsaturated polymer compositions. 3,671,475, 6-20-72, Cl. 260-22.
Brack, Karl, to Hercules Incorporated. Cross-linkable polymer compositions comprising ethylenically unsaturated polymers. 3,706,685, 12-19-72, Cl. 260-22.00r.
Brack, Karl, to Hercules Incorporated. Cross-linkable polymer compositions comprising ethylenically unsaturated polymer. 3,706,715, 12-19-72, Cl. 260-77.5ac.
Brack, Werner, to Communications Associates, Inc. Frequency synthesizer. 3,657,664, 4-18-72, Cl. 331-1.
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Bracke, William J. I., to Cosden Oil & Chemical Company. Heterocyclizing of polymer. 3,686,141, 8-22-72, Cl. 260-47.0up.
Brackelmanns, Norbert William, to RCA Corporation. Method for making transistors including gain determining step. 3,666,573, 5-30-72, Cl. 148-175.000.
Bracken, Joseph W., Jr.; Davidson, Roger A.; and Thebert, Glenn W., to General Motors Corporation. Gas turbine fuel atomizing system. 3,688,497, 9-5-72, Cl. 60-39.74r.
Bracken, Leslie Thomas: *See—*
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Bracken, Thomas W., to Eastman Kodak Company. Bimodal film cutter adapted to handle different film widths. 3,699,834, 10-24-72, Cl. 83-446.000.
Brackenbrough, Dennis D.; Godfrey, Harold E., Jr.; and Mills, Richard G. Adjustable radiation shield. 3,649,835, 3-14-72, Cl. 250-108.
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Bradbury, Keith Douglas. Apparatus for pulling row crops. 3,679,002, 7-25-72, Cl. 171-56.000.
Bradbury, Keith Douglas. Apparatus for pulling out row crop plants. 3,690,382, 9-12-72, Cl. 171-56.000.
Braddick, Britt O.; Lindsey, Hiram E., Jr.; and McKiearnan, Charles J., to Texas Iron Works, Inc. Apparatus for completing plural zone oil and gas wells. 3,640,341, 2-8-72, Cl. 166-115.

Braddock, Robert C., to International Telephone and Telegraph Corporation. Trirstable circuit. 3,662,193, 5-9-72, Cl. 307-291.
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Braden, Alvin H. Fish food feeding apparatus. 3,677,230, 7-18-72, Cl. 119-51.000.
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Braden, William D.; Marshall, Richard P.; Greenhorn, Richard J.; and Buser, Arnold S., to Goodyear Tire & Rubber Company, The. Apparatus for processing cured tires. 3,698,233, 10-17-72, Cl. 73-1.00b.
Bradford, Glenn H.; and Elewski, John S. Tool loader and unloader. 3,684,101, 8-15-72, Cl. 211-1.500.
Bradford, James C.; Miller, Stephen H.; and Robertson, Jeffrey C., to Eastman Kodak Company. Flex-snubber. 3,700,188, 10-24-72, Cl. 242-194.000.
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Bradford, John Ramsey, to Magnacheck Corporation. Micro imprinting photo-etched credit card. 3,703,864, 11-28-72, Cl. 101-369.000.
Bradford, Richard H., Jr.: *See—*
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Bradley, Chester D., to Emery, A. H., Company, The. Simplified hydraulic load cell construction. 3,633,695, 1-11-72, Cl. 177-208.
Bradley, Chester D.; and Tate, Malcolm C., to Emery, A. H., Company, The. Load cell with high cross loading capacity. 3,646,854, 3-7-72, Cl. 92-98.
Bradley, Claude G., to Geigy Chemical Corporation. Electronic instrumentation system for catalytic cyanogen chloride trimerization. 3,654,447, 4-4-72, Cl. 235-151.12.
Bradley, Curtis E. Corrosion resistant battery terminal connector. 3,704,440, 11-28-72, Cl. 339-114.000.
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Bradley, Edmund G.; and Whittingham, Reginald P. Internal line-up clamp for pipe lines. 3,699,635, 10-24-72, Cl. 29-252.000.
Bradley, George M. Electrical fish scaler. 3,670,364, 6-20-72, Cl. 17-66.000.
Bradley, John J.: *See—*
Small, Rudolph E.; Bradley, John J.; Sanders, Charles J.; and Slawny, Howard J., 3,673,052.
Bradley, John N.; and Pentescu, Peter N., to Budd Company, The. Vehicle rim and side ring construction. 3,635,274, 1-18-72, Cl. 152-410.
Bradley, John R., to British Oxygen Company, Limited, The. Line follower equipped with mask to make edge of silhouette appear as a line. 3,657,546, 4-18-72, Cl. 250-202.
Bradley, Lawrence D.: *See—*
Horne, Victor A., Jr.; and Bradley, Lawrence D., 3,704,671.
Bradley, Raymond H., to United States of America, National Aeronautics and Space Administration. Method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth. 3,700,193, 10-24-72, Cl. 244-155.000.
Bradley, Richard S., to Art's-Way Manufacturing Company Incorporated. Strain gage weighing device. 3,650,340, 3-21-72, Cl. 177-136.
Bradley, Richard S., to Art's-Way Manufacturing Company Incorporated. Vehicle coupling weighing device. 3,669,756, 6-13-72, Cl. 177-136.000.
Bradley, Robert O.: *See—*
Steitz, William R.; Bradley, Robert O.; and Waterworth, Thomas H., 3,634,588.
Bradley, Ronnie A.: *See—*
Pechin, William H.; Bradley, Ronnie A.; and Sease, John D., 3,689,428.
Bradley, Ruth D.: *See—*
Keene, Carl E.; and Bradley, Ruth D., 3,700,510.
Bradley, Thomas E.; and Spadt, Walter, Jr., to Bethlehem Steel Corporation. Contact printing apparatus. 3,682,551, 8-8-72, Cl. 355-120.000.
Bradley, Thomas W., to General Motors Corporation. Insulated door with reversible cover. 3,662,492, 5-16-72, Cl. 49-501.
Bradley, Thompson G.; and Swinkels, Dominicus A. J., to General Motors Corporation. Electrolysis cell and process using a wick electrode. 3,674,567, 7-4-72, Cl. 136-164.000.
Bradley Washfountain Co.: *See—*
Smart, Edwin Allen, 3,646,966.
Bradley, William David; and Summerlin, Frederick Arthur, to Aerpat A.G., mesne. Blind fastener. 3,657,956, 4-25-72, Cl. 85-72.
Bradley, William E.: *See—*
Timm, Gerald W.; and Bradley, William E., 3,646,940.
Bradley, William E., to Puredesal, Inc. Liquid treatment system. 3,637,081, 1-25-72, Cl. 210-110.
Bradley, William E., to Puredesal, Inc., mesne. Liquid purification system. 3,654,148, 4-4-72, Cl. 210-23.
Bradley, William E., to Puredesal, Inc., mesne. Two-stage fluid treatment system. 3,707,231, 12-26-72, Cl. 210-98.000.
Bradley, William H.: *See—*
McConnell, William M.; Bradley, William H.; Chappel, Howard E.; Whitfield, George P.; and Carey, Raymond L., 3,701,336.
Bradley, William J. Tiltable headboard for beds. 3,683,430, 8-15-72, Cl. 5-279.000.
Bradner, William T.: *See—*
Nettleton, Donald E., Jr.; Bush, James A.; and Bradner, William T., 3,663,691.
Bradshaw, Arthur; and Meadows, Frank William, to Service (Engineers) Limited. Clay-ware shaping machine with adjustable tool supporting means. 3,655,319, 4-11-72, Cl. 425-267.
Bradshaw, Arthur; and Podmore, Dennis, to Service (Engineers) Limited. Clay injection molding machine. 3,685,940, 8-22-72, Cl. 425-218.000.
Bradshaw, Carleton R.; Felsher, Hal-Curtis; and Hanau, Walter J., to Claremont Polychemical Corporation. Process of coating metal flakes with calcium silicate. 3,632,390, 1-4-72, Cl. 117-53.
Bradshaw, Carleton R.; and Felsher, Hal-Curtis. Process for coating metal flakes. 3,669,765, 6-13-72, Cl. 148-6.160.
Bradshaw, Christopher Patrick Cadman: *See—*
McGrath, Brian Patrick; and Bradshaw, Christopher Patrick Cadman, 3,637,891.
McGrath, Brian Patrick; and Bradshaw, Christopher Patrick Cadman, 3,637,892.
O'Hara, Joan Irenee; and Bradshaw, Christopher Patrick Cadman, 3,671,462.
Turner, Leonard; Howman, Eric James; and Bradshaw, Christopher Patrick Cadman, 3,641,189.
Bradshaw, Clayton H., to Abex Corporation. Encapsulated rivet and anvil arrangement. 3,685,623, 8-22-72, Cl. 192-107.00r.
Bradshaw, Evelyn: *See—*
Rabatin, Jacob G.; and Bradshaw, Evelyn, 3,666,676.
Bradshaw, Jerald S., to Chevron Research Company. Tricyclodecene tetracarboxylic acid diimide polymers. 3,639,356, 2-1-72, Cl. 260-78.
Bradshaw, John A.: *See—*
Plunkett, Robert L.; and Bradshaw, John A., 3,639,194.
Bradshaw, Melvin H. Bow cord retracting and releasing device. 3,661,136, 5-9-72, Cl. 124-35.
Bradshaw, Michael S. Carrier for hook type coat hanger. 3,670,937, 6-20-72, Cl. 224-45.00t.
Bradshaw, Norman Francis, to International Harvester Company. Control devices. 3,691,867, 9-19-72, Cl. 74-491.000.
Bradshaw, Robert S.; Golden, Donald M.; and Shapiro, Marvin, to Burroughs Corporation. Method and apparatus for detecting and separating out overweight letters. 3,648,839, 3-14-72, Cl. 209-121.
Bradshaw, Thomas I., to Minnesota Mining and Manufacturing Company. Insect trap. 3,685,199, 8-22-72, Cl. 43-114.000.
Bradshaw, Thurman O.; and Rogers, William W. Fish locator with audio monitor. 3,706,068, 12-12-72, Cl. 340-3.00r.
Bradshaw,Carleton R.; and Felsher, Hal-Curtis. Press for coating metal flakes. 3,669,764, 6-13-72, Cl. 148-6.15r.
Bradt, Gordon E., to Bell & Howell Company. Power transmission mechanism. 3,698,254, 10-17-72, Cl. 74-143.000.

Bradus, Robert: *See—*
Rogers, Frederick; Bradus, Robert; and Winar, Joseph J., 3,636,900.
Brady, Charles E. Package for sterilized products. 3,685,720, 8-22-72, Cl. 229-62.000.
Brady, Dale J., to Anchor Hocking Corporation. Pneumatic article spreader. 3,685,632, 8-22-72, Cl. 198-31.000.
Brady, Dale J.; and Gerken, George W., to Anchor Hocking Corporation. On-line simulated impact tester for glass containers. 3,702,563, 11-14-72, Cl. 73-12.000.
Brady, Donnie G.: *See—*
Cardenas, Carlos G.; and Brady, Donnie G., 3,697,607.
Drake, William O.; and Brady, Donnie G., 3,660,533.
Scruggs, Jack G.; and Brady, Donnie G., 3,676,484.
Brady, Donnie G., to Phillips Petroleum Company. Quarternary phosphonium salt catalyzed synthesis of urethanes and polyurethanes. 3,674,750, 7-4-72, Cl. 260-77.50r.
Brady, Donnie G., to Phillips Petroleum Company. Synthesis of allyl esters with palladium and platinum halide catalysts. 3,699,155, 10-17-72, Cl. 260-491.000.
Brady, Donnie G.; Zuech, Ernest A.; and Gray, Roy A., to Phillips Petroleum Company. Flame-retarded olefin polymers and additive systems therefor. 3,700,625, 10-24-72, Cl. 260-45.75r.
Brady, Donnie G., to Phillips Petroleum Company. Preparation of allylic esters with palladate an platinate catalysts. 3,700,724, 10-24-72, Cl. 260-491.000.
Brady, Douglas MacPherson, to Bell Telephone Laboratories, Incorporated. Adaptive signal processor for diversity radio receivers. 3,633,107, 1-4-72, Cl. 325-305.
Brady, Harold P., Jr.: *See—*
Richardson, Dean E.; Peterson, Adolph A., III; and Brady, Harold P., Jr., 3,701,742.
Brady, Hugh B.; Kochis, John L.; and Tischler, Oscar, to Pyrofilm Corporation. Hermetically sealed metal-film resistor. 3,688,238, 8-29-72, Cl. 338-237.000.
Brady, Jack C.; and Fewel, Kenneth J., to United States of America, Navy, mesne. Acceleration sensitive shock absorber valve. 3,696,894, 10-10-72, Cl. 188-275.000.
Brady, Joseph P. Golf training device. 3,680,869, 8-1-72, Cl. 273-183.00b.
Brady, Lynn J.: *See—*
Rozema, Arthur L.; Brady, Lynn J.; and Barden, Wayne A., 3,694,786.
Brady, Lynn J., to CTS Corporation. Electrical resistance elements, their composition and method of manufacture. 3,655,440, 4-11-72, Cl. 117-227.
Brady, W. H., Co.: *See—*
Crary, Edward N., 3,661,576.
Hueser, Elliott G.; and Muttera, William H., Jr., 3,698,296.
Bradzda, Ladislav: *See—*
Prochazka, Miloslav; Cesenek, Bedrich; Mach, Vladimir; Kaulich, Karel; Zdenka, Cerveny; and Bradzda, Ladislav, 3,648,450.
Braemer, Frank C.: *See—*
Brown, Bernard C.; and Braemer, Frank C., 3,655,361.
Braemer, Frank C., to Chemical Construction Corporation. Adjustable annular venturi scrubber. 3,638,925, 2-1-72, Cl. 261-62.
Braendstroem, Arne Elof; Carlsson, Stig Ake Ingemar; and Gagneux, Andre, to Geigy Chemical Corporation. 2-Aroyl-3-aminoalkoxy indoles. 3,703,524, 11-21-72, Cl. 260-293.610.
Braga, Felix J., to Bell Telephone Laboratories, Incorporated. Active all-pass network. 3,633,122, 1-4-72, Cl. 330-69.
Bragas, Peter, to Blaupunkt-Werke GmbH. Video transducer head alignment apparatus. 3,670,113, 6-13-72, Cl. 179-100.20b.
Brage, James John. Alpha-numeric display tubes. 3,668,689, 6-6-72, Cl. 340-344.
Bragg, Cecil: *See—*
Derc, Roman; Eitel, Ronald John Frank; and Bragg, Cecil, 3,669,446.
Bragg, Charles Gail. Cutting device. 3,643,591, 2-22-72, Cl. 100-95.
Bragg, Herbert E., to De Luxe General Incorporated. Reflective condensing system for concentrating illumination at an aperture. 3,670,157, 6-13-72, Cl. 240-41.350.
Braggard, Adolphe Andre, to Centre National de Recherches Metallurgiques. Coating metallic materials. 3,655,428, 4-11-72, Cl. 117-106.
Braginetz, Paul A., to Morris, Philip, Incorporated. Combined blade holder and dispenser. 3,643,794, 2-22-72, Cl. 206-16.
Braginetz, Paul A., to Morris, Philip, Incorporated. Adjustable folding razor. 3,646,672, 3-7-72, Cl. 30-32.
Braginetz, Paul A., to Morris, Philip, Incorporated. Disposable preassembled plastic razor. 3,675,323, 7-11-72, Cl. 30-32.000.
Brahan, John W.: *See—*
Hlady, Alvin M.; Brown, William C.; and Brahan, John W., 3,653,031.
Brahigbn, Ltd.: *See—*
Brown, Robert L., 3,693,722.
Braid, John E.: *See—*
Cubbon, Robert C. P.; Braid, John E.; and Hewlett, Colin, 3,639,425.
Braid, Milton, to Mobil Oil Corporation. Lubricating oils or fuels containing adducts of phosphorodithioate esters. 3,644,206, 2-22-72, Cl. 252-46.7.
Braid, Milton, to Mobil Oil Corporation. Esters of phosphorodithioates. 3,654,154, 4-4-72, Cl. 252-46.6.
Braid, Milton, to Mobil Oil Corporation. Esters of phosphorodithioates. 3,654,155, 4-4-72, Cl. 252-46.7.
Braid, Milton; and Law, Derek A., to Mobil Oil Corporation. Aminobenzoquinones and aminonaphthoquinones as additives for imparting oxidative stability to organic compositions. 3,682,980, 8-8-72, Cl. 260-396.00r.
Braid, Milton, to Mobil Oil Corporation. Compositions stabilized with an aryloxy (alkyloxy) alkane. 3,683,032, 8-8-72, Cl. 260-613.00r.
Braikevitch, Michael; and Goldwag, Emil, to English Electric Company Limited, The. Water turbines. 3,644,053, 2-22-72, Cl. 415-173.
Braillard, Pierre L.; Moreuil, Jean-Louis; and Steru, Marius, to Compagnie Generale d'Electronique Industrielle Lepaute, CGEI-Lepaute. Man-to-machine peripheral communication device. 3,640,002, 2-8-72, Cl. 35-8.
Brailsford, Harrison D. Vibration transducer for burglar alarms and the like. 3,665,259, 5-23-72, Cl. 317-144.
Braim, David H., to Northern Electric Company Limited. Colour coding of pulp insulated conductors. 3,663,359, 5-16-72, Cl. 162-105.000.
Braiman, Jerry; and Greskamp, John B., to Mallory, P. R., & Co., Inc. Encapsulating of electronic components by ultrasonic wave energy. 3,680,203, 8-1-72, Cl. 29-570.000.
Brain, Thomas John Stirrat, to National Research Development Corporation. Measuring the density, velocity and mass flow of gases. 3,688,106, 8-29-72, Cl. 250-43.5fc.
Brainard, Edward C., II, to General Time Corporation. Underwater communication system. 3,668,617, 6-6-72, Cl. 340-4.00e.
Brainard, Norman R.; and Holl, William H., to General Motors Corporation. Electronic cruise control system. 3,647,017, 3-7-72, Cl. 180-150.
Brainard, Wallace E.; and Sipek, Charles B., to Kearney & Trecker Corporation. Single interferometer multiple axis laser measuring system. 3,661,463, 5-9-72, Cl. 356-106.
Brainerd, Gideon R. Analog-to-digital converter. 3,696,404, 10-3-72, Cl. 340-347.0ad.
Brainerd, Wendell C., to General Motors Corporation. Air cushion actuation and monitoring circuit. 3,668,627, 6-6-72, Cl. 340-52.00h.
Braithwaite, David G., to Nalco Chemical Company. Catalyst coating method. 3,697,446, 10-10-72, Cl. 252-455.00z.
Brak, Stephen B.; Steves, Clarence; and Mayfield, Ross M.; deceased (by Mayfield, Georgia P.; sole heir), to United States of America, Atomic Energy Commission. Drawbench. 3,654,794, 4-11-72, Cl. 72-285.
Brake, Cecil Clifford, to Scovill Manufacturing Company. Air line lubricator. 3,696,889, 10-10-72, Cl. 184-55.00a.
Brake, Loren D., to Du Pont de Nemours, E. I., and Company. Catalytic hydrogenation of aromatic nitrogen containing compounds over alkali moderated ruthenium. 3,636,108, 1-18-72, Cl. 260-563.
Brake, Loren D.; and Stiles, Alvin B., to Du Pont de Nemours, E. I., and Company. Catalytic hydrogenation of nitrogen containing compounds over supported ruthenium catalysts. 3,644,522, 2-22-72, Cl. 260-563.
Brake, Loren D., to Du Pont de Nemours, E. I., and Company. Isomer enrichment of 1,4-cyclohexanediamine. 3,657,345, 4-18-72, Cl. 260-563.
Brake, Loren D., to Du Pont de Nemours, E. I., and Company. Isomer enrichment of bicyclohexyl-4,4-diamine. 3,679,746, 7-25-72, Cl. 260-563.00r.
Brake, Loren D., to Du Pont De Nemours, E. I., and Company. Alkali moderation of supported ruthenium catalysts. 3,697,449, 10-10-72, Cl. 252-474.000.
Bram, Georges Eugene, to Centre de Recherches de Pont-A-Mousson. Connecting device for pipes and applications thereof. 3,653,691, 4-4-72, Cl. 285-236.
Bramble, Ronald L., to Mayer, Frank, & Associates, Inc. Display device. 3,699,699, 10-24-72, Cl. 40-125.00h.
Brameda Resources Limited: *See—*
Tisdel, Lawrence C.; and Scott, Harry B., 3,679,371.
Bramley, Anthony. Tennis net and method of making. 3,689,067, 9-5-72, Cl. 273-29.00b.
Bramley, Hugh Christopher: *See—*
Barnard, Mark Carey Sedgwick; Bramley, Hugh Christopher; and Collet, Peter Jacobus, 3,650,317.
Brammall, Inc.: *See—*
Van Gompel, James J., 3,635,440.
Van Gompel, James J., 3,677,058.
Bramson, Arnold; and Day, Wilbur H., to Singer-General Precision, Inc. Simulator computer. 3,645,014, 2-29-72, Cl. 35-12.
Branson Instruments, Incorporated: *See—*
Horton, Robert C., 3,679,526.
Bran & Lubbe: *See—*

Lieckfeld, Werner, 3,664,072.
Branaham, Charles L.: *See—*
Higginbotham, William W.; and Branaham, Charles L., 3,649,043.
Brancaleone, Salvatore T., to International Telephone and Telegraph Corporation. Electrical connector shield. 3,678,445, 7-18-72, Cl. 339-143.00r.
Branch, Geoffrey Hindle; Hall, James Edward; Bickerstaff, Kenneth; and Russell-Rayner, Albert Patrick, to Pilkington Brothers Limited. Conveying of glass sheets. 3,680,677, 8-1-72, Cl. 198-20.000.
Branch, William C.: *See—*
Booth, Jack J.; and Branch, William C., 3,655,097.
Branco, Richard P.: *See—*
Bader, Clifford J.; and Branco, Richard P., 3,675,113.
Branco, Richard P.; Sprude, Edgar O.; and Diener, Albert W., to Burroughs Corporation. Electric device and coaxial connection. 3,651,447, 3-21-72, Cl. 339-102.
Brand, Abraham: *See—*
Mowrey, Albert C.; Huiskes, John H.; and Brand, Abraham, 3,706,085.
Brand, Boris Peter, to Ilford Limited. Color developing with a 4-sulfo naphthamide base. 3,701,661, 10-31-72, Cl. 96-55.000.
Brand, Derek: *See—*
Imatt, Alex; and Brand, Derek, 3,701,477.
Brand Insulations, Inc.: *See—*
Jerit, John, 3,667,187.
Brand, John R.; and Smith, Ernest A., to Warwick Electronics Inc. Keyer circuit for an electronic musical instrument wherein a single switch may actuate a single note or a chord. 3,665,088, 5-23-72, Cl. 84-1.010.
Brand, John Seemann; and Honeiser, Vladimir Paul, to American Can Company. Manufacture of printed circuits. 3,652,332, 3-28-72, Cl. 117-212.
Brand, Karl: *See—*
Kessler, Franz; and Brand, Karl, 3,659,911.
Brand S Corporation: *See—*
Russell, Phillips G.; Guggenbickler, Leon E.; and Crawford, John H., 3,675,791.
Brand, Warren L., to Motorola, Inc. Method of vapor depositing a tungsten-tungsten oxide coating. 3,669,724, 6-13-72, Cl. 117-106.00r.
Brand, Warren L. Vapor-plated cermet resistor. 3,669,737, 6-13-72, Cl. 117-227.000.
Brand, Werner: *See—*
Tonne, Franz; Brand, Werner; and Wolowitz, Benno, 3,675,593.
Brand, Wilhelmus K.: *See—*
Van Nassau, Petrus J. M.; Brand, Wilhelmus K.; and Kaasenbrood, Petrus J. C., 3,697,521.
Brand, William J., to Varian Associates. Cryostat having heat exchanging means in a vent tube. 3,662,566, 5-16-72, Cl. 62-514.
Brandberg, Lawrence C.: *See—*
Marmor, Ralph A.; and Brandberg, Lawrence C., 3,705,012.
Brandeis, Richard, to Waltronic Company. Welding control system. 3,694,615, 9-26-72, Cl. 219-114.000.
Brandel, Albert John, to Chevron Research Company. Specific gravity analyzer for control of an alkylation process. 3,653,835, 4-4-72, Cl. 23-230.
Brandel, Wynand W.; and Klass, Lawrence S., to Avco Corporation. Low penetration ball forming process. 3,705,511, 12-12-72, Cl. 72-53.000.
Brandell, John R., to Brandell Products Corporation. Golf putting practice device. 3,697,079, 10-10-72, Cl. 273-179.00a.
Brandell Products Corporation: *See—*
Brandell, John R., 3,697,079.
Brandenberg, Karl A., to Aro Corporation, The. Pneumatic tape readout apparatus. 3,632,994, 1-4-72, Cl. 235-61.11.
Brandenberger, Fred L. Combination portable fire escape and wardrobe support. 3,696,888, 10-10-72, Cl. 182-35.000.
Brandenburg, Helmut: *See—*
Beck, Hansludwig; and Brandenburg, Helmut, 3,688,736.
Brandenburg, Helmut; and Beck, Hansludwig, to Gebr. Eickoff, Maschinenfabrik und Eisengiessair m.b.H. Machine for making double faced corrugated paperboard comprising a plurality of rows of axially spaced staggered pressure rolls. 3,676,268, 7-11-72, Cl. 56-548.000.
Brandenburg Limited: *See—*
Hyatt, Edward Philip, 3,636,433.
Brander, Richard, to Beltone Electronics Corporation. Gradual on-off keying circuit for an oscillator. 3,651,428, 3-21-72, Cl. 331-173.
Brander, Richard, to Beltone Electronics Corporation. Signal gating circuit. 3,657,567, 4-18-72, Cl. 307-259.
Brandes, Raymond G.; and Pleass, Charles M., to Bell Telephone Laboratories, Incorporated. Resistance heater and method for preparation thereof. 3,635,824, 1-18-72, Cl. 252-512.
Brandes, Raymond G.; and Pleass, Charles M., to Bell Telephone Laboratories, Incorporated. Electrical resistance heater. 3,700,857, 10-24-72, Cl. 219-543.000.
Brandestini, Antonio; and Thorpe, Walter, to Simon-Carves Limited. Method of winding wire about prestressed containers. 3,657,798, 4-25-72, Cl. 29-452.
Brandi, Henry W. Hermetically sealed resistor. 3,643,200, 2-15-72, Cl. 338-329.
Brandi, Henry W., to Wagner Electric Corporation, mesne. Container and blank therefor. 3,669,259, 6-13-72, Cl. 206-65.00f.
Brandin, Tore; and Johansson, Sven Yngve David, to Stal Refrigeration Aktiebolag. Apparatus for cooling a liquid. 3,643,754, 2-22-72, Cl. 62-196.
Brandl, Willi. Central heating and service water system. 3,674,204, 7-4-72, Cl. 237-8.000.
Brandl, Willi. Fuel-fired boiler for production of domestic hot water and for heating. 3,704,691, 12-5-72, Cl. 122-33.000.
Brandle, Karl: *See—*
Zirngibl, Hans; Jaschiski, Klemens; Brandle, Karl; Beumer, Peter; and Weidmann, Walter, 3,681,895.
Brandli, Paul: *See—*
Zuhlke, Gerhard; Brandli, Paul; and Spalti, Max, 3,678,550.
Brandon, Clarence W., to Orpha Brandon. Fracturing and scavenging formations with fluids containing liquefiable gases and acidizing agents. 3,640,344, 2-8-72, Cl. 166-307.
Brandon, Clarence W., 25% to Brandon, Orpha B. Method of pumping fluids with an energy wave generator. 3,656,868, 4-18-72, Cl. 417-53.
Brandon, Kenneth F., to Eastman Kodak Company. Apparatus for setting up a rapidly moving web for removal of a side portion therefrom. 3,691,888, 9-19-72, Cl. 83-302.000.
Brandon, Marshall K.: *See—*
Allen, Willard B.; Persons, Charles E.; and Brandon, Marshall K., 3,696,414.
Brandon, Orpha B.: *See—*
Brandon, Clarence W., 3,656,868.
Brandon, Richard L., to Crown Zellerbach Corporation. Reproduction utilizing a bichargeable photoconductive layer containing zinc oxide and titanium dioxide. 3,653,895, 4-4-72, Cl. 96-1.8.
Brandon, William D.; and Drais, Jack A., to Caterpillar Tractor Company. Helically wound laminated bearings and method of manufacture. 3,690,639, 9-12-72, Cl. 267-57.100.
Brandsma, Abe: *See—*
Helgeland, Walter; Lazott, James B.; Duke, Philip J.; Taggart, William J.; Geacox, George W.; and Brandsma, Abe, 3,645,784.
Brandstaetter, Omri, to Siemens Aktiengesellschaft. Apparatus for the treatment and torsion-free transportation of thin wire. 3,654,114, 4-4-72, Cl. 204-206.
Brandstrom, Arne Elof: *See—*
Gagneun, Andre; Brandstrom, Arne Elof; and Carlsson, Stig Ake Ingomar, 3,699,124.
Brandstrom, Arne Elof; Carlsson, Stig Ake Ingemar; and Gagneux, Andre, to Geigy Chemical Corporation. Pharmaceutical methods and compositions utilizing 2-alkanoyl or aroyl-3-aminoalkoxyindoles. 3,646,209, 2-29-72, Cl. 424-274.
Brandstrom, Arne Elof; and Carlsson, Stig Ake Ingemar, to Aktiebolaget Hassle. Certain benzofuran derivatives useful for relief of pain, inflammation, pyresis and tussive irritation. 3,665,074, 5-23-72, Cl. 424-248.
Brandstrom, Arne Elof; Carlsson, Per Arvid Emil; Carlsson, Stig Ake Ingemar; Corrodi, Hans Rudolf; Ek, Lars; Lamm, Bo Robert; and Ablad, Bengt Arne, to Aktiebolaget Hassle. 1-(Para-alkoxyalkoxyphenyl)-2-hydroxy-3-alkylaminopropanes and the salts thereof. ,674,840, 7-4-72, Cl. 260-501.170.
Brandt, Bengt-Ake Rudolf: *See—*
Dahlgren, Jens Karl Adolf; and Brandt, Bengt-Ake Rudolf, 3,653,785.
Brandt, Charles H.: *See—*
Bolt, Gregory L.; Brandt, Charles H.; McLain, Aubrey R.; and Patel, Jayantilal M., 3,640,726.
McSwiggin, Joseph R.; and Brandt, Charles H., 3,660,106.
Brandt, David S., to Bendix Corporation, The. Separable electrical connector. 3,663,926, 5-16-72, Cl. 339-89.00r.
Brandt, Fritz; and Ernst, Wolfram, to Siemens Aktiengesellschaft. Program controlled data processing installation for switching a telephone exchange. 3,665,510, 5-23-72, Cl. 340-172.5.
Brandt, Fritz; Ernst, Wolfram; and Voegtlen, Dieter, to Siemens Aktiengesellschaft. Program controlled data processing installation for carrying out switching processing in a telephone exchange. 3,685,018, 8-15-72, Cl. 340-172.500.
Brandt, Hans-Walther: *See—*
Schliebs, Reinhard; Brandt, Hans-Walther; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; and Schnuchel, Gunther, 3,686,349.
Brandt, Hans-Walther; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; Schleppinghoff, Bernhard; and Schnuchel, Gunther, to Farbenfabriken Bayer Aktiengesellschaft and Erdolschemie Gesellschaft mit beschrankter Haftung. C_5-Hydrocarbon mixtures subjected to liquid-liquid extractions and extractive distillation using plural solvent systems. 3,655,806, 4-11-72, Cl. 260-681.5.

Brandt, Harry; and Traedway, Barney R. Method for making a prepacked sand control line for use in oil wells. 3,683,056, 8-8-72, Cl. 264r112.000.
Brandt, Heinrich. Workpiece-sensing milling apparatus. 3,642,040, 2-15-72, Cl. 144-139.
Brandt, Ivan L.; and Penrod, Orville R., to Allen-Bradley Company. Electrical resistance composition. 3,639,274, 2-1-72, Cl. 252-514.
Brandt, Jack P., to Uniroyal, Inc. Dry cleanable vinyl type artificial leather. 3,673,059, 6-27-72, Cl. 161-88.000.
Brandt, Marcus K., to Baker, J. T., Chemical Company. Chromatographic material. 3,667,607, 6-6-72, Cl. 210-198.000.
Brandt, Marcus K., to Baker, J. T., Chemical Company. Chromatography apparatus and method. 3,667,917, 6-6-72, Cl. 23-230.00r.
Brandt, Oscar E.; and Harris, Joseph G., to Lockheed Aircraft Corporation. Explosive system. 3,698,281, 10-17-72, Cl. 89-1.00b.
Brandt, Siegfried: *See—*
Schmitt, Karl; Gude, Fritz; and Brandt, Siegfried, 3,673,273.
Schmitt, Karl; Gude, Fritz; and Brandt, Siegfried, 3,673,277.
Schmitt, Karl; Gude, Fritz; and Brandt, Siegfried, 3,692,749.
Brandt, Theodore C.; and Schulze, James L., Sr., to General Electric Company. Pilot and main fuel gas supply means for pressurized gas-fired space heater. 3,695,811, 10-3-72, Cl. 431-43.000.
Brandt, Vinton R. Exercising chair. 3,641,995, 2-15-72, Cl. 128-25.
Brandt, Wilbur. Fuel reserve device and system. 3,699,995, 10-24-72, Cl. 137-256.000.
Brandt, Willem Matthijs. Stern shaft seal. 3,632,120, 1-4-72, Cl. 277-83.
Brandt, William L., to Olin Corporation. Apparatus for storing hollow ice bodies. 3,638,451, 2-1-72, Cl. 62-344.
Brandts, Theodorus Gerardus; Lichtenberger, Joseph Alois; and Bentvelzen, Joseph Maria, to Consolidated Paper (Bahamas) Limited. Reinforced laminate product. 3,639,199, 2-1-72, Cl. 161-57.
Brane, Ralph M.: *See—*
Levine, Morris; Brane, Ralph M.; and Hight, Roland W., 3,657,169.
Levine, Morris; Brane, Ralph M.; and Hight, Roland W., 3,684,676.
Braner Engineering, Inc.: *See—*
Moor, Herman L., 3,675,569.
Branick, Charles Earl. Pneumatic tire chuck. 3,683,981, 8-15-72, Cl. 144-288.000.
Branick, Charles Earl. Tire bead breaking tool. 3,693,692, 9-26-72, Cl. 157-1.170.
Brannan, James R., to Du Pont de Nemours, E. I., and Company. Chromium plating from an organic/aqueous medium. 3,706,640, 12-19-72, Cl. 204-51.000.
Brannan, James R., to Du Pont de Nemours, E. I., and Company. Preparation of chromium plating bath. 3,706,642, 12-19-72, Cl. 204-51.000.
Brannan, Mary Ann F.: *See—*
Roberts, Earl J.; Rowland, Stanley P.; and Brannan, Mary Ann F., 3,647,352.
Roberts, Earl J.; Brannan, Mary Ann F.; and Rowland, Stanley P., 3,702,232.
Brannen, William T., to Standard Oil Company (Indiana). Trialkyl phosphite-long chain alkenyl hydrocarbon-substituted succinic anhydride reaction products. 3,657,397, 4-18-72, Cl. 260-921.
Brannen, William T., Jr.: *See—*
Watson, Roger W.; Brannen, William T., Jr.; and Hillstrom, Warren W., 3,652,616.
Brannland, Rolf August; Alsefelt, Per-Erik Ingemar; and Gyllensten, Hans Otto, to Mo och Domsjo Aktiebolag. Process for replacing sodium and sulfur losses and for controlling the sulfide content in sodium- and sulfur-containing cellulosic digesting liquors 3,654,071, 4-4-72, Cl. 162-33.
Brannon, Edward O., to Rex Chainbelt Inc. Power assist servo control for a valve. 3,653,409, 4-4-72, Cl. 137-625.63.
Brannon, Joseph W. Cleaning device. 3,704,482, 12-5-72, Cl. 15-348.000.
Brannon, Ralph O.: *See—*
Medawar, George E.; Linderman, Duane L.; and Brannon, Ralph O., 3,655,133.
Branovich, Louis E.; Fitzpatrick, William B. P.; and Long, Martin L., Jr., to United States of America, Army. Method of depositing isotropic boron nitride. 3,692,566, 9-19-72, Cl. 117-106.00r.
Branscum, Claud D., to Phillips Petroleum Company. Drilling fluid preparation. 3,668,122, 6-6-72, Cl. 252-8.5.
Branson, Charles D.; and Genbauffe, Francis S., to Robertshaw Controls Company. Oven control system. 3,703,988, 11-28-72, Cl. 236-15.00a.
Branson Instruments, Incorporated: *See—*
Bantz, Walter J.; and Pittaro, Richard J., 3,701,941.
Jacke, Stanley E., 3,645,504.
Jacke, Stanley E., 3,698,408.
Obeda, Edward G., 3,649,420.
Obeda, Edward G., 3,666,599.
Obeda, Edward G., 3,666,602.
Obeda, Edward G., 3,697,357.
Puskas, William L., 3,651,352.
Puskas, William L., 3,681,626.
Rissolo, Herman A., 3,700,937.
Branson, Orland D., to Bendix Corporation, The. Slip command skid control with acceleration override. 3,702,714, 11-14-72, Cl. 303-21.00p.
Branson, Tony R. Yarn covering apparatus. 3,640,057, 2-8-72, Cl. 57-18.
Brant, Willard L. Guide means for skis. 3,645,347, 2-29-72, Cl. 180-5.
Brantingson, Sigurd, to Brin Manufacturing Co., Inc. Multiple circuit switch with pivoted contact, only one switch operable at a time. 3,691,324, 9-12-72, Cl. 200-5.00e.
Brantley, Ellard H. Conveyor for football tackling dummies. 3,637,210, 1-25-72, Cl. 273-55.
Brantley, Richard K., to Du Pont de Nemours, E. I., and Company. Plant growth regulatory ureidopyrazoles. 3,646,059, 2-29-72, Cl. 260-310.
Brantly, Newby O. Brassiere. 3,665,929, 5-30-72, Cl. 128-494.000.
Brantly, Thomas B.; Contois, Lawrence E.; and Fox, Charles J., to Eastman Kodak Company. Photoconductive elements containing as photoconductors, triarylamines substituted by active hydrogen-containing groups. 3,658,520, 4-25-72, Cl. 96-1.6.
Branton, Donald L.; and Mowery, James R., to Sta-Rite Industries, inc. Liquid dispensing system. 3,667,499, 6-6-72, Cl. 137-318.000.
Branton, Eric Sidney, to Activated Sludge Limited. Pipe supporting means. 3,700,197, 10-24-72, Cl. 248-71.000.
Brants, Johannes Petrus; and Van der Meulen, Johan, to Akzo N.V. Masonry materials that resist effloresence and are colored with increased intensity and permanence, and methods of producing such materials. 3,674,522, 7-4-72, Cl. 106-90.000.
Brantte, Arnold; Frostling, Bengt Harald Ivar; and Lindgren, Per-Henning. Apparatus for a quantitative anaylsis of a gas or gas mixture in respect of its content of organic substances. 3,671,196, 6-20-72, Cl. 23-254.00r.
Brantz, Malcolm H. Kinetic display. 3,694,645, 9-26-72, Cl. 240-10.100.
Branum, Lonnie J. Vibration dampening clamp for electrical transmission and distribution lines. 3,664,620, 5-23-72, Cl. 248-63.000.
Brany, Jaroslav, to Vyzkumny ustav strojirenske technologie a ekonomiky. Manufacture of bearing balls. 3,667,168, 6-6-72, Cl. 51-289.000.
Brasch Manufacturing Company, Inc.: *See—*
Albers, Rolf G., 3,681,663.
Braschwitz, Harold J.: *See—*
Coll, Edward T.; Braschwitz, Harold J.; Grace, Charles; Manchester, Michael J.; and Hunter, Stephen A., III, 3,638,179.
Brasco, Fredrich: *See—*
Eckler, Richard C.; and Amirault, Frank H., 3,661,350.
Brasco S.A.: *See—*
Asper, Jean-Jacques, 3,679,052.
Brasen, Wallace R., to Du Pont de Nemours, E. I., and Company. Microporous synthetic sheet material having a finish of a polyester polyurethane and cellulose acetate butyrate. 3,632,417, 1-4-72, Cl. 117-135.5.
Brashear, Hugh R., Jr.: *See—*
Acree, Elick H.; Brashear, Hugh R., Jr.; and Case, Forrest N., 3,697,756.
Brasier, Robert I.: *See—*
Mills, Carroll B.; and Brasier, Robert I., 3,687,804.
Braski, Ervin W.: *See—*
Peltola, Waino; and Braski, Ervin W., 3,683,979.
Brasmer, Timothy H.: *See—*
Lumb, William V.; and Brasmer, Timothy H., 3,648,691.
Brass, Ronald W., to Iowa State University Research Foundation. Corn sheller. 3,662,762, 5-16-72, Cl. 130-6.
Brassard, Theodore, to Texas Instruments, Incorporated. Circuit breaker having means for increasing current carrying capacity. 3,697,915, 10-10-72, Cl. 337-74.000.
Brassington, Harry; and Aston, Jack Ralph, to Gillott, Joseph, & Sons Limited. Castors. 3,670,361, 6-20-72, Cl. 16-18.000.
Brassner, Joseph L.: *See—*
Jasper, Lane; and Brassner, Joseph L., 3,691,807.
Brastow, Carl H., to Kamborian, Jacob S. Coating machine. 3,653,356, 4-4-72, Cl. 118-7.
Brastow, Edgar R.; and Lee, Tai Y., to Transco Products, Inc. Switching means. 3,689,854, 9-5-72, Cl. 335-5.000.
Brasty, Joseph. Theft-proof automobile ignition system. 3,675,035, 7-4-72, Cl. 307-10.0at.
Braswell, James W. Flushing apparatus. 3,705,428, 12-12-72, Cl. 4-58.000.
Braswell, Troy F.: *See—*
Lubowitz, Hyman R.; Wilson, Edgar R.; Jones, John F.; Burns, Eugene A.; and Braswell, Troy F., 3,632,428.
Brat, Claude: *See—*
Bonnabaud, Joannes Francis Marcel; and Brat, Claude, 3,655,108.
Bratek, Richard J., to International Business Machines Corporation. Frangible projection removal. 3,656,671, 4-18-72, Cl. 225-1.
Braten, Olaf Georg. Press cages on screw presses. 3,662,679, 5-16-72, Cl. 100-127.

Brathen, Kare: *See—*
Aas, Saebjorn; and Brathen, Kare, 3,654,891.
Bratka, John D. Tape machine head cap removably mountable for wear prevention. 3,636,274, 1-18-72, Cl. 179-100.2.
Bratko, Rudolph S. Process for coating wire. 3,674,537, 7-4-72, Cl. 117-49.000.
Bratt, Geoffrey Charles; and Sinclair, Roderick James, to Electrolytic Zinc Company of Australasia Limited. Treatment of materials containing lead sulphide. 3,642,467, 2-15-72, Cl. 75-101.
Bratt, Richard L., to Norton Company. Surface conforming wear resistant doctor blade for rolls. 3,703,019, 11-21-72, Cl. 15-256.510.
Brattland, Richard M.: *See—*
Walters, Russell W.; and Brattland, Richard M., 3,648,492.
Bratton, Francis H., to Aprand, Inc. Patient riser. 3,668,723, 6-13-72, Cl. 5-327.000.
Bratzler, Karl; Herbert, Wilhelm; Hoelne, Reinhard; and Storp, Klaus, to Metallgesellschaft Aktiengesellschaft. Process of purifying sulfur-containing exhaust gases and of recovering sulfur. 3,637,352, 1-25-72, Cl. 23-225.
Bratzler, Karl; Doerges, Alexander; Hochgesand, Gerhard; and Grunewald, Gerhard, to Metallgesellschaft Aktiengesellschaft. Process for a fine purification of hydrogen-containing gases. 3,653,810, 4-4-72, Cl. 23-2.
Brau, Maurice J., to Texas Instruments, Incorporated. Method of producing homogeneous ingots of a metallic alloy. 3,656,944, 4-18-72, Cl. 75-135.
Braucksick, Henry C.: *See—*
Caparone, Michael J.; Dykzeul, Theodore J.; Lynwood, Edward B.; and Braucksick, Henry C., 3,685,541.
Braude, George L.; and Cogliano, Joseph A. Reversible agglomeration of powders for aerial dissemination. 3,689,661, 9-5-72, Cl. 424-304.000.
Brauer, Gerhard M.: *See—*
Huget, Eugene F.; Brauer, Gerhard M.; Kumpula, John W.; and Civjan, Simon, 3,675,327.
Brauer, Hans, to Kieserling, Th., & Albrecht. Swaging machine. 3,654,789, 4-11-72, Cl. 72-76.
Brauer, Robert C. Waste disposal system. 3,705,851, 12-12-72, Cl. 210-1.000.
Brault, Albert T.; and Bissonette, Vernon L., to Eastman Kodak Company. Processes and compositions for converting zero-valent metals photographic images to formazan dye images. 3,642,478, 2-15-72, Cl. 96-48.
Brault, Albert T.; and Bissonette, Vernon L., to Eastman Kodak Company. Processes for converting zero - valent metals photographic images to formazan dye images. 3,655,382, 4-11-72, Cl. 96-48.
Brault, Andre R.; Chitayat, Anwar K.; and Beeh, Ronald C. M., said Beech assor. to OPTOmechanisms, Inc. Microcircuit art generating means. 3,704,946, 12-5-72, Cl. 355-46.000.
Braumann, Gundokar; Klor, Walter; and Huber, Albert, to Siemens Aktiengesellschaft. Relay switching apparatus. 3,670,272, 6-13-72, Cl. 335-112.000.
Braun, Adolf: *See—*
Holz, Robert Gustave; and Braun, Adolf, 3,680,363.
Braun Aktiengesellschaft: *See—*
Christian, Claus, 3,665,703.
Fischer, Richard, 3,673,683.
Greubel, Jurgen, 3,658,365.
Hofmann, Erich; Krull, Ernst; Johannsen, Werner Hans; Oberheim, Robert; and Scheibel, Josef, 3,669,534.
Messinger, Werner, 3,696,508.
Moller, Heinrich, 3,649,130.
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Napierski, Peinhard; and Cobarg, Claus Christian, 3,692,999.
Pietzonka, Helmut; and Schindler, Hans, 3,704,085.
Rams, Dieter; and Cobarg, Claus Christian, 3,645,087.
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Scheibel, Josef, 3,652,155.
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Braun, Anton: *See—*
Lacy, James G.; and Byrne, John V., 3,673,999.
Braun, Anton. Free piston engine ignition apparatus. 3,643,638, 2-22-72, Cl. 123-46.
Braun, Anton. Free piston engine bounce compressor. 3,694,111, 9-26-72, Cl. 417-491.000.
Braun, Arthur Rechtman, to Bell Telephone Laboratories, Incorporated. Crystal filter. 3,656,180, 4-11-72, Cl. 333-71.
Braun, David L., to Minnesota Mining and Manufacturing Company. Solids dispenser having magnetic valve in throat. 3,661,302, 5-9-72, Cl. 222-226.
Braun, Dieter; and Heinemann, Klaus, to Siemens Aktiengesellschaft. Particle-beam device equipped with magnetic means for transversely displacing parts thereof. 3,678,270, 7-18-72, Cl. 250-49.50b.
Braun, Edward H. Process and apparatus for marking and editing of elongated record carriers. 3,644,683, 2-22-72, Cl. 179-100.2.
Braun, Edwin Julius; Maxon, Rodney Robert; Meise, Henry August, Jr.; Taylor, George William; and Witmore, Ronald Kirk, to Bell Telephone Laboratories, Incorporated. By link circuit. 3,679,834, 7-25-72, Cl. 179-18.00c.
Braun, Ernest J.; and Adams, Ralph M., to White Memorial Medical Center. Colorscanner. 3,693,178, 9-19-72, Cl. 346-1.000.
Braun, Frank R. Tranquilizing dart for marine use. 3,680,243, 8-1-72, Cl. 43-6.000.
Braun, Fred, Sr. Toilet bowl structure. 3,654,641, 4-11-72, Cl. 4-257.
Braun, Harry J.; and Dunn, Stanley A. De-inking and removal of certain contaminants from reclaimed paper stock-heavying. 3,635,788, 1-18-72, Cl. 162-4.
Braun, Harvey A.; and Roberts, Richard J., to Filter Dynamics International, Inc. Filter element valve means. 3,633,750, 1-11-72, Cl. 210-130.
Braun, Helmut F.: *See—*
Henke, Erich G.; Braun, Helmut F.; Scholl, Karl L.; and Schubert, Rudolf, 3,651,743.
Braun, Hermann E., to Skil Corporation. Switch of the reversing type. 3,637,967, 1-25-72, Cl. 200-155.
Braun, Jurgen: *See—*
Uhlig, Fritz; and Braun, Jurgen, 3,669,659.
Uhlig, Fritz; and Braun, Jurgen, 3,676,134.
Braun, Klaus; Manthey, Kurt; and Welz, Bernhard, to Bodenseewerk Perkin-Elmer & Co., GmbH. Graphite tube cell assemblies for atomic absorption spectrometers. 3,702,219, 11-7-72, Cl. 356-244.000.
Braun, Martin; Grossel, Stanley S.; and Singer, Barry M., to Machlett Laboratories, Incorporated, The. Image intensifier tube having a multi-radius photocathode. 3,697,795, 10-10-72, Cl. 313-102.000.
Braun, Richard E.; Hopkins, Lionel G.; Sheehan, Neil J.; and Sanchez, Edward J., to Magnetic Head Corporation. Method of manufacturing multiple track, single gap magnetic heads. 3,678,576, 7-25-72, Cl. 29-603.000.
Braun, Richard E.; and Hopkins, Lionel G., to Magnetic Head Corporation. Unipartite read/write and/or center section housing for dual gap magnetic head assemblies employing unitary intertrack shielding extensions. 3,701,859, 10-31-72, Cl. 179-100.20c.
Braun, Richard H.: *See—*
Vass, Edward J.; Braun, Richard H.; and Platt, Conrad R., 3,690,255.
Braun, Robert A., to Du Pont de Nemours, E. I., and Company. Polyesters with substituted amine end groups. 3,684,771, 8-15-72, Cl. 260-77.000.
Braun, Robert A., to Du Pont de Nemours, E. I., and Company. Polyesters. 3,704,255, 11-28-72, Cl. 260-404.800.
Braun, Samuel; Witkoff, Robert; and Northrop, George, to Cellu-Craft Inc. Molded plastic display package. 3,650,382, 3-21-72, Cl. 206-45.14.
Braun, Vincent C.: *See—*
Winyard, Rodney W.; Fortsch, Francis J.; and Braun, Vincent C., 3,648,424.
Braun, Werner: *See—*
Bauer, Rudolf; Jacob, Herbert; and Braun, Werner, 3,672,495.
Hoelzinger, Walther J.; Wenninger, Johann; Mayer, Walter; Zoegernitz, Karl; Schroetter, Hermann; and Braun, Werner, 3,669,064.
Braun, Wettberg & Co.: *See—*
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Braun, William V.; and Leitich, Albert J., to Motorola, Inc. Digital privacy system. 3,639,690, 2-1-72, Cl. 178-22.
Braun, Wolfgang, to Siemens Aktiengesellschaft. Device for controlling the reactivity of nuclear reactors. 3,652,394, 3-28-72, Cl. 176-86.
Braunheim, Stephen T.: *See—*
Rebane, George J.; and Braunheim, Stephen T., 3,645,369.
Braunhut, Harold N. Method and materials used for hatching brine shrimp. 3,673,986, 7-4-72, Cl. 119-2.000.
Braunhut, Harold N. Insect trap. 3,686,788, 8-29-72, Cl. 43-110.000.
Braunhut, Harold N. Insect activity observation center. 3,687,110, 8-29-72, Cl. 119-1.000.
Brauning, Gerhard: *See—*
Ort, Wolfgang; and Brauning, Gerhard, 3,646,603.
Braunschweig, Robert G.: *See—*
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Braunschweigische Maschinenbauanstalt: *See—*
Sommer, Harald, 3,655,124.
Braunstein, David M., to Celanese Corporation. Polybutylene terephthalate-oxymethylene polymer compositions. 3,696,171, 10-3-72, Cl. 260-860.000.
Braunstein, David M., to Celanese Corporation. Diisocyanate coupling of oxymethylene polymer and polybutylene terephthalate. 3,697,624, 10-10-72, Cl. 260-860.000.
Braunwarth, John B.: *See—*
Sanders, Herbert L.; Swenson, Robert A.; and Braunwarth, John B., 3,653,183.
Braunwieser, Johann: *See—*

Kralowetz, Bruno; and Braunwieser, Johann, 3,645,126.
Braus, Harry; and Woltermann, Jay R., to National Distillers and Chemical Corporation. 3,5-Di-t-butyl-4-hydroxy benzyl pheny sulfides. 3,637,863, 1-25-72, Cl. 260-609.
Brauser, Klaus J.; Kritikos, Athanasios; Kroy, Walter; and Mehnert, Walter E., to Messerschmitt-Bolkow-Blohm GmbH. Magneto-optic storage element. 3,701,131, 10-24-72, Cl. 340-174.0yc.
Brauweiler, Wilhelm; and Mager, Gunther Winand, to Compagnie de Saint-Gobain-Pont-A-Mousson. Apparatus for winding strands of thermoplastic material, particularly of glass filaments in the course of their production. 3,693,896, 9-26-72, Cl. 242-18.00a.
Braverman, Leslie, to Solo Products Corporation. Hanger bracket for merchandise. 3,696,937, 10-10-72, Cl. 211-54.000.
Braverman, Maynard, mesne: *See—*
Fisher, William J., 3,672,015.
Brawley, Harry E., Jr., to Data Electronics Corporation. Ring core keyboard entry device. 3,668,696, 6-6-72, Cl. 340-365.000.
Brawn, Darrell S., to Eaton Yale & Towne, Inc. Safety apparatus. 3,640,546, 2-8-72, Cl. 280-150.
Brawn, John M., to United States of America, Navy. Temperature sensing squib firing device. 3,672,303, 6-27-72, Cl. 102-70.20r.
Brawn, Philip E., to Carothers Sheet Metal Company. Veneer stacker. 3,698,708, 10-17-72, Cl. 271-74.000.
Brawner, William H.: *See—*
Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 3,698,337.
Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 14% each to Summer, Dale E., Rockwell, Lowell K., Rogers, Paul C., Laznibat, Nick A., Gunsalus, Claude A., 13% to Brawner, William H., 5% each to Kimmich, Gordon R., Plourde, Leonard J., Mcuire, Marcus W. and 2% to Smyth, George F. Can bodies and method and apparatus for manufacture thereof. 3,698,337, 10-17-72, Cl. 113-120.0aa.
Braxton Corporation: *See—*
Horsley, Caperton B., 3,681,009.
Braxton, Henry R. Elastic type dart and ball projecting device. 3,683,882, 8-15-72, Cl. 124-20.00b.
Braxton, James Lopez, Jr.: *See—*
Francini, Joseph Pirra; Braxton, James Lopez, Jr.; Lewis, Vera Gloria; McPherson, Frank Henderson; Rosenberg, Daniel; and Sekse, Torkjell, 3,674,988.
Bray, Derek. Low distortion AGC amplifier. 3,676,789, 7-11-72, Cl. 330-29.000.
Bray, Horace A., to Dunlop Company Limited, The. Friction mechanisms containing silicon nitride. 3,703,224, 11-21-72, Cl. 188-251.00m.
Bray, James A.: *See—*
Smith, John R.; and Bray, James A., 3,684,679.
Bray, John R.; and McKinney, Perry F., to Monsanto Company. Stabilizing circuit for anticipating controller. 3,679,873, 7-25-72, Cl. 219-501.000.
Bray, Thomas L.: *See—*
Cofer, Daniel B.; and Bray, Thomas L., 3,703,261.
Brayman, Jay H. Sharpener for sharpening rotary lawn mower blades. 3,636,666, 1-25-72, Cl. 51-250.
Braymer, Hugh D.: *See—*
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Brayshaw, James R.: *See—*
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Brayshaw, James R.; and Gagnon, Richard T., said Gagnon assor. to said Brayshaw, James R. Arrhythmia counter. 3,633,569, 1-11-72, Cl. 128-2.06.
Braytenbah, Andrew S.: *See—*
Birnbaum, Manfred E.; Braytenbah, Andrew S.; and Richardson, Arthur W., 3,643,437.
Brayton, Robert K.; Gustavson, Fred G.; and Aachtel, Gary D., to International Business Machines Corporation. Tableau network design system. 3,705,409, 12-5-72, Cl. 444-1.000.
Brazda, Ladislav; deceased (by Brazdova, Drahuska; and Brazdova, Dagmar; heirs); Prochazka, Miloslav; Kuhn, Vladimir; and Ozdian, Josef, to Elitex, Zavdy textilniho Strojirenslvi Generalni reditelstvi. Mechanism for withdrawing and winding yarn in spinningunits. 3,667,205, 6-6-72, Cl. 57-58.89.
Brazda, Ladislav; deceased (by Brazdova, Drahuska; and Brazdova, Dagmar; heirs); Prochazka, Miloslav; Kuhn, Vladimir; Ozdian, Josef; and Benes, Rudolf, to Elitex, Zavody testilniho strojrenstvi. Mechanism for withdrawing and winding yarn in spinning units.3,670,484, 6-20-72, Cl. 57-34.00r.
Brazda, Ladislav, deceased (by Brazdova, Drahuska); Brazdova, Dagmar; heirs; Prochazka, Miloslav; Kaulich, Karel; and Ozdian, Josef, said Prochazka, said Kaulich and said Ozdian assors. to Elitex, Zavody textilniho strojirenstvi generalni reditelstvi. Mechnical checking device for controlling the operation of spinning unit. 3,643,413, 2-22-72, Cl. 57-83.
Brazdova, Dagmar: *See—*
Brazda, Ladislav; Prochazka, Miloslav; Kuhn, Vladimir; and Ozdian, Josef, 3,667,205.
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Brazda, Ladislav, deceased; Brazdova, Dagmar; Prochazka, Miloslav; Kaulich, Karel; and Ozdian, Josef, 3,643,413.
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Brazda, Ladislav, deceased; Brazdova, Dagmar; Prochazka, Miloslav; Kaulich, Karel; and Ozdian, Josef, 3,643,413.
Prochazka, Miloslav; Cesenek, Bedrich; Mach, Vladimir; Kaulich, Karel; Zdenka, Cerveny; and Bradzda, Ladislav, 3,648,450.
Brazee, John A., to Whitney Blake Company, The. Shielded cable construction providing for an internal connection to ground. 3,643,008, 2-15-72, Cl. 174-107.
Brazell, James W., to Southern Iron and Equipment Company. Gantry cranes. 3,645,406, 2-29-72, Cl. 212-14.
Brazell, James W., to Heath International, Inc., mesne. Gear type coupling. 3,707,081, 12-26-72, Cl. 64-9.00r.
Brazell, Virgil T., 1/2 to McAfee, Silas E. Fishing rod holder and alarm. 3,633,304, 1-11-72, Cl. 43-17.
Brazerol, William: *See—*
Briggs, Southwick W., 3,656,627.
Brda, Otto. Rescuing device. 3,703,218, 11-21-72, Cl. 182-6.000.
Breach, Geoffrey D.: *See—*
Levy, Alan A.; Rodger, Mitchell N.; and Breach, Geoffrey D., 3,671,629.
Brealey, Edward Reginald, to Rolls-Royce Limited. Electron beam method of securing a bearing race. 3,694,616, 9-26-72, Cl. 219-121.0eb.
Brealey, Graham J.: *See—*
Wilson, Donald L.; and Brealey, Graham J., 3,632,699.
Bream, John B.; and Picard, Claude W., to Wander, A., Dr., SA. Phenylacetylguanidines. 3,634,508, 1-11-72, Cl. 260-558.
Bream, John Bernard; and Picard, Claude W., to Wander, Dr. A., S.A. Substituted phenylacetyl derivatives of guanidine, o-alkylisoureas, s-alkylisothioureas, and p-nitrobenzylisothiourea. 3,632,645, 1-4-72, Cl. 260-558.
Brean, John W.: *See—*
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Brearley Company, The: *See—*
Aleks, Vytant, 3,640,498.
Provi, Mike A.; and Guinter, S. Robert, 3,666,031.
Provi, Mike A.; and Aleks, Vytant, 3,692,204.
Breazeale, Paul H. Community warning system using telephone lines. 3,643,029, 2-15-72, Cl. 179-5.
Brebant, Robert; and Tamboise, Maurice P. Container for the preservation and consumption of different cooked foods. 3,667,452, 6-6-72, Cl. 126-390.
Brech, Frederick: *See—*
Schuch, John A.; and Brech, Frederick, 3,680,959.
Brech, Kilian H., to Sonie Instruments, Incorporated. Ultrasonic thickness gauge. 3,688,565, 9-5-72, Cl. 73-67.900.
Brechbuhler, Hans Ulrich: *See—*
Gubler, Kurt; Meyer, Urs; and Brechbuhler, Hans Ulrich, 3,669,976.
Gubler, Kurt; Meyer, Urs; and Brechbuhler, Hans Ulrich, 3,699,225.
Brechbuhler, Hans Ulrich; and Gubler, Kurt, to Ciba-Geigy Corporation. Basically substituted 1-cyano-O-carbamoyl-formoximes. 3,673,236, 6-27-72, Cl. 260-465.400.
Brecher, Charles; Pappalardo, Romano; and Samelson, Harold, to GTE Laboratories Incorporated. Liquid laser containing cycloheptatriene. 3,677,959, 7-18-72, Cl. 252-301.20r.
Brecher, Charles; Heller, Adam; and Pappalardo, Romano, to General Telephone & Electronics Laboratories, Incorporated. Liquid laser containing cyclooctatetraene. 3,681,252, 8-1-72, Cl. 252-301.20r.
Brecht, William F., Jr. Valve. 3,664,378, 5-23-72, Cl. 137-635.000.
Breck, Louis William, Jr. Device for forming belt loop blanks. 3,649,144, 3-14-72, Cl. 425-136.
Breckenridge, Frank, to Controls Company of America. Oil control safety float with magnetic latch. 3,642,025, 2-15-72, Cl. 137-400.
Breckenridge, G. J.: *See—*
Kalnin, I. L.; and Breckenridge, G. J., 3,677,804.
Breckenridge, George J.: *See—*
Kalnin, Ilmar L.; and Breckenridge, George J., 3,674,581.
Breckenridge, Wilbur T., Jr. Grass catcher. 3,662,527, 5-16-72, Cl. 56-200.000.
Brecker, Lawrence R.; and Thee, Alfred, to Argus Chemical Corporation. Stabilization of polyvinyl chloride resins. 3,640,953, 2-8-72, Cl. 260-45.75.
Brecker, Lawrence R.; and Thee, Alfred, to Argus Chemical Corporation. Polyvinyl chloride resin and stabilizer combinations comprising a diorganotin oxide, a tetravalent organotin mercaptocarboxylic acid compound and a divalent stannous tin salt. 3,642,677 2-15-72, Cl. 260-23.

Brecker, Lawrence R.; and Thee, Alfred, to Argus Chemical Corporation. Reaction products of dialkyltin oxides and higher dialkyltin monohydric aliphatic saturated alcohol esters of thiomalic and thiolactic acids. 3,642,848, 2-15-72, Cl. 260-429.7.

Brecker, Lawrence R.; and Thee, Alfred, to Argus Chemical Corporation. Reaction products of dialkyltin oxides and higher dialkyltin monohydric aliphatic saturated alcohol esters of thiomalic and thiolactic acids. 3,674,737, 7-4-72, Cl. 260-45.75k.

Breda, Ernest J., to Du Pont de Nemours, E. I., and Company. Purification process for unsaturated organic nitriles. 3,641,107, 2-8-72, Cl. 260-465.9.

Bredemeier, Herbert C., to American Optical Corporation. Laser accessory for surgical application. 3,659,613, 5-2-72, Cl. 128-395.

Bredereck, Hellmut F. I.; Iliopulos, Miltiadis I.; and Wieder, Horst F. Bis-(p-hydroxyphenyl) alkyl-phosphonic acid esters, process for preparing the same. 3,702,879, 11-14-72, Cl. 260-953.000.

Bredeson, Dean K.: *See—*
Nissle, William N.; Slaby, Robert K.; and Bredeson, Dean K., 3,684,252.

Bredeson, Dean K.; and Slaby, Robert Kent, to French Oil Mill Machinery Company, The. Apparatus for treating elastomeric materials. 3,638,921, 2-1-72, Cl. 259-109.

Bredeson, Dean K., to French Oil Mill Machinery Company, The. Rendering cooker. 3,682,091, 8-8-72, Cl. 99-348.000.

Bredeweg, Corwin J.: *See—*
Hickner, Richard A.; Bredeweg, Corwin J.; and Plepys, Raymond A., 3,682,965.

Bredlow, Harvey F., to Graham-White Sales Corporation. Pneumatic starting system for diesel engines. 3,667,442, 6-6-72, Cl. 123-179.00f.

Bredoux, Francois-Jean-Marie; and Garcia, Rene Fernand Pierre, to Eastman Kodak Company. Photographic process with an amine metavanadate. 3,661,574, 5-9-72, Cl. 96-35.

Bredow, Walter, to Behrens, C., Aktiengesellschaft. Longitudinal carriage drive for co-ordinates tables in machine tools, particularly punching machines. 3,650,133, 3-21-72, Cl. 72-1.

Bredt, James H.: *See—*
Kendall, Louis F., Jr.; and Bredt, James H., 3,650,844.
Kendall, Louis F., Jr.; and Bredt, James H., 3,652,421.

Bredtschneider, Walter, to Siemens Aktiengesellschaft. Steam generator for power plants heated by nuclear energy. 3,682,772, 8-8-72, Cl. 176-54.000.

Bredzs, Nikolajs; and Miller, Forbes M., to Wall Colmonoy Corporation. Cermet-type alloy and method of making same. 3,666,436, 5-30-72, Cl. 75-.50r.

Bredzs, Nikolajs; and Miller, Forbes M., to Wall Colmonoy Corporation. Coating on metal base. 3,672,849, 6-27-72, Cl. 29-195.000.

Bredzs, Nikolajs; and Miller, Forbes M., to Wall Colmonoy Corporation. Cermet-type alloy. 3,690,849, 9-12-72, Cl. 29-182.5.

Bredzs, Nikolajs; and Miller, Forbes M., to Wall Colmonoy Corporation. Method of making a cermet-type alloy. 3,690,875, 9-12-72, Cl. 75-202.000.

Bredzs, Nikolajs, to Wall Colmonoy Corporation. Cermet alloy composition. 3,705,791, 12-12-72, Cl. 29-195.000.

Breece, Burton W.; and Summerer, Raymond Edwin, to General Motors Corporation. Vehicle low coolant level indicating device. 3,636,509, 1-18-72, Cl. 340-59.

Breed, Arthur R., to Lamson & Sessions Co., The. Lock bolt and method of making the same. 3,701,372, 10-31-72, Cl. 151-22.000.

Breed, Charles P.; and Anderson, Melvin R., to Westinghouse Electric Corporation. Area lighting luminaire. 3,697,740, 10-10-72, Cl. 240-46.370.

Breed, David S. Rocket fuse with a cocked piston. 3,651,761, 3-28-72, Cl. 102-80.

Breed, David S. Liquid integrating accelerometer. 3,694,594, 9-26-72, Cl. 200-61.470.

Breed, Laurence W.; Elliott, Richard L.; and Rosenberg, Harold, to United States of America, Air Force, mesne. Method of making arylene modified siloxazanes incorporating cyclodisilazane structures. 3,702,317, 11-7-72, Cl. 260-465.00p.

Breeden, James A., to Vendo Company, The. Malfunction isolation apparatus for selective vending machines. 3,669,235, 6-13-72, Cl. 194-10.000.

Breeden, William J.: *See—*
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Breeding, Dillard, to Breeding Insulation Company, Inc. Method and apparatus for forming fitting covers. 3,638,365, 2-1-72, Cl. 51-281.

Breeding Insulation Company, Inc.: *See—*
Breeding, Dillard, 3,638,365.

Breen, Bernard P.; Lawver, Bill R.; and Kliegel, James R., to Marshall Industries. Apparatus for initiating decomposition of an exothermic propellant. 3,651,644, 3-28-72, Cl. 60-203.

Breen, Charles, to Bell Telephone Laboratories, Incorporated. Call forwarding arrangement for telephone answering service systems. 3,637,947, 1-25-72, Cl. 179-27.

Breen, Edward L.: *See—*
Schneider, Marion F.; and Breen, Edward L., 3,678,275.

Breen, William J. Flush valve assembly. 3,675,249, 7-11-72, Cl. 4-57.00p.

Breen, William Ross, to Hubert Industries Limited. Safety rail. 3,633,862, 1-11-72, Cl. 248-251.

Breer, Karl; and Lauterbach, Udo, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for introducing substances into a foamable mixture for forming a foam material. 3,638,915, 2-1-72, Cl. 259-4.

Breer, Karl Wilhelm; and Weinbrenner, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Process and apparatus for applying polyurethane foam-forming composition. 3,705,821, 12-12-72, Cl. 117-105.300.

Breetvelt, Emile, to Intermenua (Proprietary) Limited. Shearing machines. 3,664,221, 5-23-72, Cl. 83-196.000.

Breeze, Eric G.; and Sabel, John O., to Kaiser Aerospace and Electronics Corporation. Display system for providing radar plan position information on a raster display. 3,653,044, 3-28-72, Cl. 343-5.

Brefka, Paul E.: *See—*
Danti, Bernard R.; Brefka, Paul E.; and Merrill, Wayne S., 3,652,169.
Danti, Bernard R.; and Brefka, Paul E., 3,699,291.
Latham, Peter A.; and Brefka, Paul E., 3,664,669.

Brefka, Paul E.; and Latham, Peter A., to Millipore Corporation. Storage and dispensing package for stacked sheet material. 3,666,140, 5-30-72, Cl. 221-46.000.

Brega, Angelo: *See—*
Piana, Francesco; and Brega, Angelo, 3,640,094.

Bregantini, Robert R., to Kelley Company, Inc. Safety mechanism for a hydraulically operated dockboard. 3,656,199, 4-18-72, Cl. 14-71.

Breger, William N. Environmental control capsule and system therefor. 3,661,145, 5-9-72, Cl. 128-2.

Bregi, Benjamin F.; McNabb, Warren C.; and Daniel, David W., to Lear Siegler, Inc. Gear rolling die and method of use. 3,631,703, 1-4-72, Cl. 72-108.

Bregi, Benjamin F.; and Tersch, Richard W., to Lear Siegler, Inc. Machine for rolling tapered gears. 3,635,062, 1-18-72, Cl. 72-102.

Bregi, Benjamin F., to Lear Siegler, Inc. Pot broaching machine. 3,651,738, 3-28-72, Cl. 90-10.

Bregi, Benjamin F.; Motz, Carl H.; and Bassoff, Arthur B., to Lear Siegler, Inc. Combined gear shaving and rolling machine. 3,659,335, 5-2-72, Cl. 29-560.

Breglia, Denis R.: *See—*
Derderian, George; and Breglia, Denis R., 3,681,608.

Brehm, Hans, to Freudenberg, Carl. Device for the uniform application of small amounts of a powdery material onto surface configurations. 3,650,243, 3-21-72, Cl. 118-308.

Brehm, Herbert, to Siemens Aktiengesellschaft. Method to produce symbols composed of straight lines on the screen. 3,681,646, 8-1-72, Cl. 315-18.000.

Brehmer, Harald: *See—*
Rheude, Franz Gustav; Munster, Franz; and Brehmer, Harald, 3,687,714.

Breidbach, Gunter: *See—*
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Breidenbach, Josef: *See—*
Holler, Hans; Breidenbach, Josef; and Milles, Aloys, 3,703,590.

Breidenbach, Josef, to Gebruder Holler G.m.b.H. Bag processing machine. 3,631,768, 1-4-72, Cl. 93-33.

Breidenstein, Kenneth R., to Kraftco Corporation. Method of making cottage cheese. 3,697,293, 10-10-72, Cl. 99-116.000.

Breiksss, Ivars P., to Honeywell Inc. Frequency divider. 3,702,382, 11-7-72, Cl. 179-100.20r.

Breil, Heinz: *See—*
Ziegler, Karl; and Breil, Heinz, 3,702,309.

Breiling, Hans Georg, to Dragerwerk Aktiengesellschaft. Anesthetic vaporizer. 3,651,805, 3-28-72, Cl. 128-188.

Breiling, Hans Georg, to Dragerwerke Aktiengesellschaft. Expansion temperature sensing means, in particular for medical apparatus. 3,671,024, 6-20-72, Cl. 261-39.00r.

Breiner, A. W.: *See—*
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Breiner, Richard C., to Nicolet Industries, Inc. Lehr roll millboard formed from asbestos fibers and employing colloidal silica-calcium lime and bentonite as a binder. 3,692,509, 9-19-72, Cl. 65-118.000.

Breitbach, Fritz; and Choulat, Gustav, to Still, Carl, Firma. Process for decomposing ammonia. 3,661,507, 5-9-72, Cl. 23-2.

Breitbach, Irwin G. Wig form. 3,693,848, 9-26-72, Cl. 223-66.000.

Breitenbach, Karl-Heinz, to SKF Kugellagerfabriken GmbH. Apparatus for spinning yarn. 3,673,781, 7-4-72, Cl. 57-58.890.

Breitenbach, Otto: *See—*
Baum, Walter Karl-Theodor; and Breitenbach, Otto, 3,674,933.

Breitenbach, Otto, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Delay line. 3,639,860, 2-1-72, Cl. 333-29.

Breitenmoser, Jurg: *See—*
Daume, Eduard; and Breitenmoser, Jurg, 3,669,924.

Breitfuss, Roman, to Enteco Establishment. Apparatus for forming a tube socket on a tube consisting of thermoplastic synthetic material. 3,689,190, 9-5-72, Cl. 425-392.000.

Breitfuss, Thomas K. Keyed joint arrangement for interconnecting pipe sections. 3,677,581, 7-18-72, Cl. 285-292.000.
Breitfuss, Thomas K., to Hydro Conduit Corporation. Load lifting and transport vehicle. 3,682,334, 8-8-72, Cl. 214-75.00g.
Breithaupt, John T.; and Garcia, Raymond T., to Shell Oil Company. Stair-step thermal recovery of oil. 3,692,111, 9-19-72, Cl. 166-252.000.
Breitkopf, Stephen H.; and Scaduto, Michael, to American Hospital Supply Corporation. Method of making disposable garments. 3,699,591, 10-24-72, Cl. 2-243.00r.
Breitkopf, Walter J.; Bayer, Jack L.; and Bayer, Leon F., to Bayer Industries, Inc. Machine tool table position locating means. 3,639,071, 2-1-72, Cl. 408-91.
Breitkreuz, Lutz: *See—*
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Breitschaft, Siegfried; and Holtermann, Rolf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of high-molecular weight polyesters. 3,634,359, 1-11-72, Cl. 260-75.
Breitschwerdt, Werner; Andres, Rudolf; and Busch, Gerhard, to Daimler-Benz Aktiengesellschaft. Installation for cleaning the cover panes of motor vehicle headlights. 3,671,994, 6-27-72, Cl. 15-250.360.
Breitwieser, Heinz; and Heinz, Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Wall covering defining a continuous ventilating conduit. 3,686,813, 8-29-72, Cl. 52-303.000.
Brejcha, Robert J.; and Corbett, William H., to Everpure, Inc. Test plug for filter assembly. 3,696,669, 10-10-72, Cl. 73-168.000.
Brekle, Oliver R., to M&B Metal Products Company. Apparatus for preparing wire for drawing. 3,641,970, 2-15-72, Cl. 118-5.
Brelsford, John E.: *See—*
Greiner, James G.; and Brelsford, John E., 3,704,028.
Brembach, Burkart; Eisinger, Alfred; Horneff, Hans; and Zahn, Heinrich, to Fernseh G.m.b.H. Method and system for correcting color errors in color films during television transmission. 3,660,595, 5-2-72, Cl. 178-5.20a.
Bremer, Georg Fritz, to Dymo Industries, Inc. Compact embossing tool. 3,664,477, 5-23-72, Cl. 197-6.7.
Bremer, Robert D.: *See—*
Fry, Millard E.; and Bremer, Robert D., 3,668,371.
Bremmer, James S.; and Koste, Bernard F; deceased (by Koste, Elsie E.; executrix). Agitator apparatus. 3,675,904, 7-11-72, Cl. 259-108.000.
Bremner, Alexander McColl; and Squire, John Mansel, to British Petroleum Company Limited, The. Preparation of toughened polyvinyl aromatic compound. 3,660,325, 5-2-72, Cl. 260-17.00r.
Bremner, David F.; and Smith, Stephen B., to National Cash Register Company, The. Compact label printer. 3,690,250, 9-12-72, Cl. 101-95.000.
Bremner, Ian: *See—*
Alsop, Ranulph Michael; and Bremner, Ian, 3,639,588.
Bremner, James Duncan; and McLellan, Ian Alexander, to Imperial Chemical Industries Limited. Melt spinning process. 3,706,826, 12-19-72, Cl. 264-176.00f.
Bremond, Genevieve, to Paulstra. Coupling system for vehicles in particular railway vehicles. 3,637,088, 1-25-72, Cl. 213-45.
Brems, John H. Multiple step indexing and reversing drive mechanism. 3,680,399, 8-1-72, Cl. 74-89.000.
Bremshey & Co.: *See—*
Ambrosius, Manfred, 3,705,745.
Weber, Heinz, 3,650,284.
Weber, Heinz, 3,693,643.
Bremshey & Co., Firma: *See—*
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Domin, Heinz, 3,656,439.
Bremshey, Fritz, to Telesco Brophey Limited. Longitudinally collapsible flat umbrella. 3,640,297, 2-8-72, Cl. 135-25.
Bremson Photo Industries, Inc.: *See—*
Daugherty, Arthur J., 3,677,638.
Brenda Mines, Ltd.: *See—*
Stanley, Robert W.; Ames, Horace L.; and Jennings, Peter H., 3,674,424.
Brendel, Gottfried J., to Ethyl Corporation. Synthesis of substituted 7-octen-1-ols. 3,674,846, 7-4-72, Cl. 260-632.00r.
Brendel, Gottfried J.; and Shepherd, Lawrence H., Jr., to Ethyl Corporation. Branched chain alkenols. 3,692,847, 9-19-72, Cl. 260-633.000.
Brendel, Klaus-Dieter: *See—*
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Brendemuehl, Roger C., to Warner Electric Brake & Clutch Company. Photoelectric discontinuity and the like detector for multi-element arrays. 3,676,009, 7-11-72, Cl. 356-199.000.
Brenden, Byron B.; and Kidman, Russell B. Ultrasonic interference pattern detector. 3,683,679, 8-15-72, Cl. 73-67.50h.
Brender, Ronald F.; and Foy, John L., Jr., to Battelle Development Corporation, The, mesne. Digital communication interface. 3,638,195, 1-25-72, Cl. 340-172.5.
Brendgord, Thomas, to American Sterilizer Company. Patient care wall. 3,670,718, 6-20-72, Cl. 128-1.00r.
Brendgord, Thomas; and Kereluk, Karl, to American Sterilizer Company. Portable isolator. 3,678,921, 7-25-72, Cl. 128-1.00r.
Brendle, Thomas A., to Audn Corporation. Recording and indicating system particularly for locomotives and the like. 3,655,955, 4-11-72, Cl. 235-151.31.
Brendler, Otfried: *See—*
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Boltze, Karl-Heinz; Brendler, Otfried; and Lorenz, Dietrich, 3,694,489.
Brendt, Dieter; Helms, Gerd; and Keunecke, Gerhard, to Chemiebau Dr. A. Zieren GmbH & Co. KG. Process for the purification of crude phthalic anhydride by plural stage vacuum distillation with side stream product recovery. 3,699,008, 10-17-72, Cl. 203-72.
Breneman, Edwin J., to Kollmorgen Corporation. Veiling reflection and illumination meter. 3,703,338, 11-21-72, Cl. 356-222.000.
Brengman, Andrew J.; and Kraxno, Maxwell R., to Textron, Inc. Methane gas detection system using infrared. 3,662,171, 5-9-72, Cl. 250-83.3.
Brenig, Theodore; Smith, James S., Jr.; and Woodie, Paul E., Jr., to General Electric Company. Synchronizing system. 3,689,699, 9-5-72, Cl. 179-15.0bs.
Brenman, Henry Stephen. Method and means for visual presentation of occlusal sounds and for analysis and comparison thereof. 3,651,577, 3-28-72, Cl. 32-19.
Brenn, Gemma Adriana. Spectacles having bands that reduce facial wrinkles. 3,675,991, 7-11-72, Cl. 351-41.000.
Brennan, Francis P. Edge conditioning mechanism. 3,690,139, 9-12-72, Cl. 72-199.000.
Brennan, George A., to Challenge-Cook Bros. Incorporated. Method and apparatus for the bulk process of hides or the like. 3,665,735, 5-30-72, Cl. 69-30.
Brennan, George Andrew. Air pollution detectors. 3,698,871, 10-17-72, Cl. 23-254.00r.
Brennan, James, Jr.; Pope, Hermon L., Jr.; and Boren, Donald F., to Texas Instruments, Incorporated. Electronic printing input-output station. 3,638,197, 1-25-72, Cl. 340-172.5.
Brennan, James Leo; and Ford, Gerald Paul, to Stauffer-Wacker Silicone Corporation, mesne. Preparation of alkoxyorganopolysiloxane resins. 3,668,180, 6-6-72, Cl. 260-46.5.
Brennan, John F.: *See—*
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Brennan, John F., to Universal Oil Products Company. Closure for high pressure chamber. 3,672,534, 6-27-72, Cl. 220-46.00p.
Brennan, Leo C., to Avco Corporation. Preparation of III-V alloys for infrared detectors. 3,634,143, 1-11-72, Cl. 148-1.6.
Brennan, Leon E.; Mower, Frederick J.; Place, Fred A.; Shanks, David A.; Simpson, Neville H.; and Zaner, William L., Sr., to Sylvania Electric Products, Inc. Wire cleaning machine. 3,634,899, 1-18-72, Cl. 15-4.
Brennan, Martin J.: *See—*
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Brennan, William R.; and Sabatelli, Philip M., to Grace, W. R., & Co. Chlorinated machine dishwashing composition and process. 3,637,509, 1-25-72, Cl. 252-99.
Brennan, William R., to Chemed Corporation. Storage stable detergent composition. 3,703,470, 11-21-72, Cl. 252-99.000.
Brennecke, Manfred: *See—*
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Brenneisen, Paul: *See—*
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Paltauf, Fritz; Margot, Alfred; and Brenneisen, Paul, 3,697,555.
Brenneke, Arthur M., to TRW Inc. Method and apparatus for reducing exhaust emissions during acceleration. 3,659,415, 5-2-72, Cl. 60-13.
Brenneke, Arthur M., to TRW Inc. Plastics filled piston ring. 3,697,090, 10-10-72, Cl. 277-157.000.
Brenneman, Homer K.: *See—*
Cable, Russell D.; and Brenneman, Homer K., 3,685,535.
Brenneman, Richard S.; Clancy, John J.; Macleish, William T.; and Wells, Robert C., to Little, Arthur D., Inc. Coating composition and article coated with same. 3,637,431, 1-25-72, Cl. 117-155.
Brenneman, Roderick L.; and McLeon, Daniel M., to Georgia-Pacific Corporation. Method for fastening wood veneer sheets together edge to edge. 3,705,829, 12-12-72, Cl. 156-65.000.
Brennen, Ronald F. Spark plug. 3,673,452, 6-27-72, Cl. 313-141.000.
Brenner, Abner; and Anderson, Harvey J., to United States of America, Atomic Energy Commission. Vapor deposition of rhenium and rhenium-tungsten alloy coatings. 3,703,405, 11-21-72, Cl. 117-107.200.
Brenner, Bruce C., to Dow Corning Corporation. Lubricant compositions. 3,671,433, 6-20-72, Cl. 252-49.600.
Brenner, Henry D., to Hankscraft Company. Display device. 3,633,296, 1-11-72, Cl. 40-53.

Brenner, Hermann, to Sigloch, Walter, Grossbuchbinderei. Device for feeding book pads to a trimming machine. 3,633,727, 1-11-72, Cl. 198-27.

Brenner, Hermann, to Sigloch, Walter, Grossbuchbinderei. Device for cutting and gluing gauze strips on book pad backs. 3,649,414, 3-14-72, Cl. 156-521.

Brenner, I. Edward. Dam retaining dental band assembly. 3,638,315, 2-1-72, Cl. 32-63.

Brenner, Lawrence A., to Beloit Corporation. Apparatus for applying glue to leading and trailing edges of a wrapper sheet. 3,688,735, 9-5-72, Cl. 118-2.

Brenner, Leonard C., to Burroughs Corporation. Digitally nulled magnetic detection system. 3,697,870, 10-10-72, Cl. 324-43.00r.

Brenner, Lutz; and Gerhardt, Wolfgang, to VEB Spinn-Und Zwirnerei-Maschinenbau Karl-Marx-Stadt. Stuffing box crimping device. 3,641,637, 2-15-72, Cl. 28-1.6.

Brenner, Mannie; Chase, Fred L.; and Leydon, Arthur J., to Grace, W. R., & Co. Gasket-forming solvent-based compositions containing styrene-butadiene block copolymers. 3,676,386, 7-11-72, Cl. 260-27.000.

Brenner, Morris, to United States of America, Army. Shock machine. 3,665,749, 5-30-72, Cl. 73-12.000.

Brenner, Walter; Goswami, Jagadish Chanda; and Rugg, Barry A., to United States of America, Agriculture. Method of depositing an oxymethylene polymer from formaldehyde in the vapor form on cellulosic textiles and the resulting product. 3,663,158, 5-16-72, l. 8-116.400.

Brenner, Warren W.: *See—*
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Brenner, William C.: *See—*
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Brenot, Claude; and Mollard, Gaston, to Thomson-CSF. Fluid stream direction indicator. 3,702,562, 11-14-72, Cl. 73-1.00e.

Brent, Albert: *See—*
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Brent, Albert; and Teichmann, Charles F., to Texaco Development Corporation. Sewage disposal process. 3,687,646, 8-29-72, Cl. 48-209.000.

Brent, Allan L.: *See—*
Szulagyi, Bela A.; Brent, Allan L.; and Greguss, Pal, 3,680,501.

Brent, John T., Jr.; and Page, Jack S., to Grace, W. R., & Co. Process for purifying gypsum using fluosilicic acid. 3,642,456, 2-15-72, Cl. 23-304.

Brents, J. W. Anchor device for door frames. 3,698,146, 10-17-72, Cl. 52-214.000.

Brepoels, Joseph Rene; and Busschots, Armand August Florent, to S.A. PRB. Plant growth regulants. 3,671,217, 6-20-72, Cl. 71-105.000.

Breschi, Enzo: *See—*
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Brescia, Riccardo; and Montanari, Lucio, to Olivetti, Ing., C., & C., S.p.A. Keyboard for calculating machines, teleprinters, terminals and the like. 3,641,568, 2-8-72, Cl. 340-365.

Bresee, Heber J.; and Bowman, James L., to Tektronix, Inc. Low noise field effect transistor with channel having subsurface portion of high conductivity. 3,656,031, 4-11-72, Cl. 317-235.

Bresin, Adam. Exchanger for cooling fluids. 3,670,522, 6-20-72, Cl. 62-333.000.

Breslauer, Charles S., to Grace, W. R., & Co. Woodflake composition for panels and method of making same. 3,705,837, 12-12-72, Cl. 161-168.000.

Bresler and Associates Inc.: *See—*
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Bresler, Semen Efimovich; Kazbekov, Embek Nikolaevich; and Fomichev, Viktor Nikolaevich. Method of investigation of electronic paramagnetic resonance. 3,705,345, 12-5-72, Cl. 324-.50r.

Bresler, Sidney A., to Bresler and Associates Inc. Esalination process. 3,639,231, 2-1-72, Cl. 210-23.

Breslin, Mary Anne; Cogar, George R.; Lee, Charles A.; Neddenriep, Donald O.; Romeo, Albert J.; Sevilla, Ernesto G.; and Sekse, Torkjell, to Sperry Rand Corporation. Electronic plugboard controlled data processor. 3,670,144, 6-13-72, Cl. 235-61.9.

Breslouf, Morris: *See—*
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Breslow, David S., to Hercules Incorporated. Modifying polymers. 3,640,974, 2-8-72, Cl. 260-78.5.

Breslow, David S., to Hercules Incorporated. Adhering with azido isocyanate compounds. 3,657,047, 4-18-72, Cl. 156-322.

Breslow, David S., to Hercules Incorporated. Polyfunctional carbonyl nitride oxides. 3,670,023, 6-13-72, Cl. 260-566.00a.

Breslow, David S., to Hercules Incorporated. Azidoformates from reduced polymerized fatty acids. 3,696,126, 10-3-72, Cl. 260-349.000.

Breslow, Jeffrey D.: *See—*
Barlow, Gordon A.; and Breslow, Jeffrey D., 3,653,666.
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Glass, Marvin I.; Breslow, Jeffrey D.; and Jaworski, Eugene, 3,664,670.

Breslow, Jeffrey D.; and Glass, Marvin I., to Glass, Marvin, & Associates. Pivotable target and ball striking means. 3,635,476, 1-18-72, Cl. 273-95.

Breslow, Jeffrey D.; and Glass, Marvin I., to Glass, Marvin, & Associates. Shooting gallery having separate targets housed in a central section. 3,637,213, 1-25-72, Cl. 273-101.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Game device. 3,638,945, 2-1-72, Cl. 273-95.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Surface projectile game device with intermittently closed target openings. 3,643,951, 2-22-72, Cl. 273-108.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Skill type game. 3,643,955, 2-22-72, Cl. 273-119.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Target game for rolling missile. 3,647,216, 3-7-72, Cl. 273-123.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Skill type game. 3,649,009, 3-14-72, Cl. 273-1.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Puzzle type game. 3,649,026, 3-14-72, Cl. 273-159.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Balancing game with pivoted receptacle cover member. 3,656,746, 4-18-72, Cl. 273-1.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Visual and audible signal producing target apparatus. 3,677,545, 7-18-72, Cl. 273-102.10c.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Board game apparatus. 3,679,210, 7-25-72, Cl. 273-134.00c.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Game device. 3,687,451, 8-29-72, Cl. 273-1.00r.

Breslow, Jeffrey D.; Glass, Marvin I.; Meyer, Burton C.; Jaworski, Eugene; and Barlow, Gordon A., to Glass, Marvin, & Associates. Cable mounted toy vehicle and toy system employing the same. 3,693,290, 9-26-72, Cl. 46-202.000.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Projectile displacing apparatus including stressible strands and missiles. 3,698,714, 10-17-72, Cl. 273-119.00r.

Breslow, Jeffrey D., to Glass, Marvin, & Associates. Board game apparatus. 3,705,727, 12-12-72, Cl. 273-135.00b.

Breslow, Leon. Article hanging apparatus. 3,672,622, 6-27-72, Cl. 248-224.000.

Breslow, Ronald; Baldwin, Steven; and Winnik, Mitchell. Remote oxidation of unactivated steroid methylene groups. 3,684,801, 8-15-72, Cl. 260-239.570.

Bressan, Giancarlo; and Gafa, Salvatore, to Montecatini Edison S.p.A. Process for the removal of nitric oxide from industrial gases. 3,635,657, 1-18-72, Cl. 23-2.

Bresser, Robert E.: *See—*
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Hechenbleikner, Ingenuin A.; Hussar, John F.; Koeniger, Arthur F.; and Bresser, Robert E., 3,699,152.

Bresser, Thomas G. Golf club carrier or cart. 3,679,226, 7-25-72, Cl. 280-47.190.

Bressickello, Tony J.: *See—*
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Bressickello, Tony J. Humidified and refrigerated showcase. 3,696,630, 10-10-72, Cl. 62-188.000.

Bressler, Robert Lee; Alexiev, Iwan Rangelov; Troxell, Frank Vollmer; and Richards, George Gilman, to AMP Incorporated. Solid state cathode ray tube erase circuit. 3,657,595, 4-18-72, Cl. 315-30.

Bresson, Clarence R., to Phillips Petroleum Company. Purification of alcohols. 3,642,915, 2-15-72, Cl. 260-643.

Bresson, Clarence R., to Phillips Petroleum Company. Ternary stabilizer system for polyolefins. 3,644,282, 2-22-72, Cl. 260-45.85.

Bresson, Richard J.: *See—*
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Bresson, Richard J.; and Dierks, James E., to Eastman Kodak Company. Gear drive for a camera and film cartridge. 3,650,489, 3-21-72, Cl. 242-71.2.

Bresson, Richard J.; and Painton, Richard C., to Eastman Kodak Company. Camera apparatus for controlling diaphragm and shutter speed. 3,664,245, 5-23-72, Cl. 95-10.0cd.

Breston, Michael P.: *See—*
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Schmitt, Arthur N., 3,688,183.

Breston, Michael P.; and Keilberg, Ray D., to Fluor Corporation. Automatic submarine trencher. 3,670,514, 6-20-72, Cl. 61-72.400.

Bret, Georges; and Gires, Francois, to CSF-Compagnie Generale de Telegraphie Sans Fil. Stimulated emission source of light. 3,662,282, 5-9-72, Cl. 331-94.5.

Bret, Pierre; and Suck, Catherine, to Societe Lablabo. Valves. 3,684,195, 8-15-72, Cl. 239-561.000.

Bretch, Edward E., to Borden, Inc. Snack food and method of producing same. 3,703,378, 11-21-72, Cl. 99-81.000.

Bretchneider, Otto: *See—*
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Bretl, Wayne E., to Motorola, Inc. Gamma control circuit. 3,633,121, 1-4-72, Cl. 330-40.
Breton, Roger J.; and Beck, David F., to Roto Manufacturing Company, Inc. Apparatus for coring and pressing juice from fruits having a rind. 3,682,092, 8-8-72, Cl. 100-52.000.
Bretsch, Michael A.: *See—*
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Bretschneider, Erich, to Siemag Siegener Maschinenbau, G.m.b.H. Roll stand with working rolls supported in chocks. 3,675,455, 7-11-72, Cl. 72-238.000.
Bretschneider, Erich J. F. E., to SIEMAG Siegener Maschinenbau GmbH. Rolling mill. 3,643,488, 2-22-72, Cl. 72-191.
Bretschneider, Hermann; and Patlik, Alois, to U.S. Philips Corporation. Adaptor for use on a recording and/or playback apparatus. 3,632,894, 1-4-72, Cl. 179-100.2.
Bretschneider, Hermann; Czonka, Viktor; and Rupp, Karl, to U.S. Philips Corporation. Motor cutoff and delayed reversing circuit for a recording and playback apparatus. 3,636,761, 1-25-72, Cl. 179-100.2.
Bretschneider, Hermann; Grassmayr, Klaus; Hohenlohe-Oehringen, Kraft; and Grussner, Andre, to Hoffmann-La Roche Inc. Bicyclic sulfonylthiourea derivatives. 3,654,357, 4-4-72, Cl. 260-552.
Bretschneider, Hermann; Klotzer, Wilhelm; and Franzmair, Rudolf, to Hoffmann-La Roche Inc. 1-Substituted-2-iminopyrrolidines, intermediates therefor and processes for the preparation thereof. 3,665,012, 5-23-72, Cl. 260-326.300.
Bretschneider, Hermann; Kraft, Innsbruck; Grussner, Andre; and Zur Nedden, Klaus, to Hoffmann-La Roche Inc. N-phenylsulfonylbornane-carboxamides and narbornane-carboxamides. 3,707,558, 12-26-72, Cl. 260-556.0ac.
Brett, Thomas J., Jr.: *See—*
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Brettell, Charles C. Multiple use pouch. 3,631,613, 1-4-72, Cl. 36-2.5.
Bretti, Franco; and Gilardi, Emilio, to Olivetti, Ing., C., & C., S.p.A. Keyboard for calculating machines, accounting machines, teleprinting machines or the like. 3,646,551, 2-29-72, Cl. 340-365.
Bretti, Franco, to Olivetti, Ing. C., & C., S.p.A. Automatic writing arrangements for accounting or calculating machines. 3,677,385, 7-18-72, Cl. 197-19.000.
Bretti, Franco, to Olivetti, Ing., C., & C., S.p.A. High speed serial printing device for typewriters, teleprinters, calculating machines, accounting machines and the like. 3,706,367, 12-19-72, Cl. 197-55.000.
Bretting, Claus Aage Svensgaard: *See—*
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Breuer, Hans; Manner, Erich; and Michl, Karl-Heinz, to Wacker-Chemie G.m.b.H. Molding substances of low- and high-pressure polyethylene. 3,700,759, 10-24-72, Cl. 260-897.000.
Breuer, Herman, to Olin Mathieson Chemical Corporation. N-Acyl-substituted-N'-hydroxyguanidines as herbicides. 3,632,333, 1-4-72, Cl. 71-118.
Breuer, Herman, to Olin Chemical Co., Inc. Halogenated aryloxyacetyl cyanamides as herbicides. 3,635,692, 1-18-72, Cl. 71-97.
Breuer, Herman, to Olin Mathieson Chemical Corporation. 3-Amino-5-halogenatedaryloxymethyl-1,2,4-oxadiazoles. 3,667,930, 6-6-72, Cl. 71-92.000.
Breuer, Herman, to Squibb, E. R., & Sons, Inc. Method of controlling nematodes. 3,705,247, 12-5-72, Cl. 424-272.000.
Breuer, Hermann, to Squibb, E. R., & Sons, Inc. 3-[b-(5-Nitro-2-furyl)vinyl]-5-haloalkyl-1,2,4-oxadiazoles. 3,634,412, 1-11-72, Cl. 260-240.
Breuer, Hermann, to Squibb, E. R., & Sons, Inc. Indane derivatives of thiocarbamic acids. 3,636,032, 1-18-72, Cl. 260-455.
Breuer, Hubert, to Uniroyal Englebert Deutschland AG. Apparatus for pressing the seams or splices of raw tires. 3,690,992, 9-12-72, Cl. 156-412.000.
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Breuner, Gerald L. Rotor hub and blade attachments. 3,667,863, 6-6-72, Cl. 416-138.
Breuner, Gerald L. Rotor hub and blade attachments. 3,701,612, 10-31-72, Cl. 416-141.000.
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Breunich, Theodore R.; and Dinoia, Emanuel J., to Universal Oil Products Company. Differential pressure transducer. 3,662,603, 5-16-72, Cl. 73-398.
Breunsbach, Maurice C., to Spirolet Corporation. Nozzle. 3,692,243, 9-19-72, Cl. 239-401.000.
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Brevick, Arnold A., to UID Electronics Corporation. Slide switch with snap action. 3,674,953, 7-4-72, Cl. 200-77.000.
Brevick, Arnold Aage, to Bunker-Ramo Corporation, The. Magnetic switches and method and apparatus for making same. 3,673,526, 6-27-72, Cl. 335-205.000.
Brevik, Elmer Lawrence. Face mask. 3,695,265, 10-3-72, Cl. 128-146.200.
Brewer, Cecil G.: *See—*
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Brewer, Charles C.; and Killian, Charles R., to Foster Grant Co., Inc. Catalytic hydrocracking process. 3,639,495, 2-1-72, Cl. 260-672.
Brewer, Charles C.; and Killian, Charles R., to Foster Grant Co., Inc. Catalytic hydrocracking process for distillation residues. 3,692,858, 9-19-72, Cl. 260-672.00r.
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Brewer, Gerald L., to Universal Oil Products Company. Thermal incineration unit. 3,706,533, 12-19-72, Cl. 23-277.00c.
Brewer, Given A., to Brewer Engineering Laboratories, Inc. Strain gage assembly and method of attachment. 3,639,875, 2-1-72, Cl. 338-2.
Brewer, John C., to Garbalizer Corporation of America. Integrated municipal waste processing system and method. 3,635,409, 1-18-72, Cl. 241-43.
Brewer, John C., to Garbalizer Corporation of America. Integrated garbage processing system. 3,660,038, 5-2-72, Cl. 23-259.100.
Brewer, John C., to Garbalizer Corporation of America. Vehicle body-shell processing plant. 3,706,289, 12-19-72, Cl. 110-18.00r.
Brewer, Lee M., to General Motors Corporation. Flow divider control valve assembly. 3,703,186, 11-21-72, Cl. 137-101.000.
Brewer, Lee M.; and Rohde, Robert P., to General Motors Corporation. Engine idle speed governor and throttle control. 3,705,685, 12-12-72, Cl. 236-93.000.
Brewer, Robert W., to General Motors Corporation. Filler cap. 3,703,245, 11-21-72, Cl. 220-40.00r.
Brewer, Sherman Theodore, to Bell Telephone Laboratories, Incorporated. Repeatered submarine cable system. 3,676,613, 7-11-72, Cl. 179-170.00t.
Brewer, Waldo L.; and Laukaitis, Joseph F., to Eastman Kodak Company. Automatic searching system. 3,700,320, 10-24-72, Cl. 353-26.000.
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Brewer, William B., to Weir Magic Pit Corporation. Method of manufacturing wood-siding panels. 3,682,212, 8-8-72, Cl. 144-318.000.
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Brewitz, Frederick G., to Minnesota Mining and Manufacturing Company. Developer. 3,648,019, 3-7-72, Cl. 219-386.
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Brewster, Arthur Edward, to International Standard Electric Corporation. Facsimile device with provisions for direct viewing of an intermediate record. 3,637,934, 1-25-72, Cl. 178-6.6.
Brewster, Arthur Edward, to International Standard Electric Corporation. Character generation system. 3,638,216, 1-25-72, Cl. 340-324.
Brewster, Don. Hay harvesting machine. 3,691,742, 9-19-72, Cl. 56-346.000.
Brewster, Phillip W.; and MacDonald, John M., to Esso Research and Engineering Company. Fast cold quench oil for metals. 3,681,150, 8-1-72, Cl. 148-29.000.

Brex Corporation: *See—*
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Brey, Wilhelm; Hostetler, William; Loeffler, Earl Ferdnand; Kolm, Hubert Ernest; and Elder, Fred Grove, to Firestone Tire & Rubber Company, The. Tire building machine having means advancing a plurality of drums through a plurality of assembly stations. 3,70,526, 10-24-72, Cl. 156-396.000.

Breza, Cyril J., to Du Pont de Nemours, E. I., and Company. Gelled acidic explosive compositions. 3,661,659, 5-9-72, Cl. 149-19.

Brezosky, Bernard J., to General Electric Company. Faucet coupling assembly for a washing machine. 3,635,243, 1-18-72, Cl. 137-583.

Brian, Robert Coles; and Bland, Peter Douglas, to Imperial Chemical Industries Limited. Plant treatment composition comprising a plant treatment chemical, a wetting agent and an aliphatic alcohol. 3,673,087, 6-27-72, Cl. 252-1.000.

Briand, Roger H., to Compagnie Internationale pour l'Informatique. Numerical data multi-processor system. 3,665,412, 5-23-72, Cl. 340-172.5.

Briar, John R.: *See—*
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Brichard, Edgar; Jaupain, Maurice; Plumat, Emile; and Deschepper, Pierre, to Glaverbel S.A. Method of forming refractory masses. 3,684,560, 8-15-72, Cl. 117-105.100.

Brichard, Edgard, to Glaverbel. Process for the treatment or production of floating flat glass. 3,645,713, 2-29-72, Cl. 65-99.

Brichard, Edgard, to Glaverbel. Apparatus for the treatment or production of flat glass floating on a liquid. 3,652,250, 3-28-72, Cl. 65-182.

Brichard, Edgard, to Glaverbel. Refractory furnace wall of a glass sheet floating tank. 3,652,251, 3-28-72, Cl. 65-182.

Brichard, Edgard, to Glaverbel. Method of constructing a composite refractory hearth in a float glass furnace. 3,657,399, 4-18-72, Cl. 264-30.

Brichard, Edgard; and Declaye, Joseph, to Glaverbel. Refractory elements for a glass float furnace wall. 3,669,640, 6-13-72, Cl. 65-182.00r.

Brick, Edmund J., 50% to Brick, Thomas J., 21% to Roberts, Theresa A. and 21% to Young, William E. Tambourine. 3,675,528, 7-11-72, Cl. 84-418.000.

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Bricker, Carl E., to Goodyear Tire & Rubber Company, The. Cloverleaf brake structure. 3,687,240, 8-29-72, Cl. 188-71.100.

Bricker, Carl E.; and Hillegass, Kenneth P., to Goodyear Tire & Rubber Company, The. Floating lining high torque brake assembly. 3,687,247, 8-29-72, Cl. 188-335.000.

Bricker, Jack A.; and Shaw, Hugh E., Jr., to PPG Industries, Inc. Glass defect detection system. 3,656,854, 4-18-72, Cl. 356-119.

Brickhouse, Abner A.; and Schipper, Dirk A. Quick-release coupling. 3,642,307, 2-15-72, Cl. 285-38.

Brickley, Alfred H.: *See—*
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Brickner, David R.; and Schell, Sidney T., to Sperry Rand Corporation. Controlled magnitude repeater for synchro and resolver signals. 3,705,980, 12-12-72, Cl. 235-186.000.

Brickner, Joseph L. Self-adjusting vehicle detector system. 3,685,013, 8-15-72, Cl. 340-38.001.

Brickner, Kenneth G.; and Ratz, George A., to United States Steel Corporation. Method for producing minimum-ridging type 430 Mo stainless steel sheet and strip. 3,655,459, 4-11-72, Cl. 148-12.

Brickner, Kenneth G.; and Ratz, George A., to United States Steel Corporation. Method for producing a minimum-ridging type 430 stainless steel. 3,684,589, 8-15-72, Cl. 148-12.000.

Brickner, Kenneth G., to United States Steel Corporation. Ferritic stainless steels with improved cold-heading characteristics. 3,694,192, 9-26-72, Cl. 75-126.00b.

Brickner, Kenneth G., to United States Steel Corporation. Ferretic stainless steels with improved stretch-forming characteristics. 3,700,432, 10-24-72, Cl. 75-126.00c.

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Bride, John Edwin: *See—*
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Bride, John Edwin, to Du Pont de Nemours, E. I., and Company. Preparing plating bath containing chromic compound. 3,706,636, 12-19-72, Cl. 204-51.000.

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Bridel, Laiteries E.: *See—*
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Bridenbaugh, Paul Michael; Carruthers, John Robert; and Nash, Franklin Richard, to Bell Telephone Laboratories, Incorporated. Modified $LiNbO_3$ composition devices utilizing same. 3,665,205, 5-23-72, Cl. 307-88.300.

Bridenstine, Orville J., to Phillips Petroleum Company. Tray. 3,648,883, 3-14-72, Cl. 220-66.

Bridenstine, Orville J.; Shutt, Melvin S.; and Brookshire, Harry A., to Phillips Petroleum Company. Tray collar and tray-collar combinations. 3,672,530, 6-27-72, Cl. 220-4.00r.

Bridge, Alan G.: *See—*
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Bridge, Alan G., to Chevron Research Company. Desulfurization. 3,663,434, 5-16-72, Cl. 208-210.

Bridge, Alan G., to Chevron Research Company. Multi-stage desulfurization. 3,696,027, 10-3-72, Cl. 208-210.000.

Bridge Data Products, Inc.: *See—*
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Bridge Data Products, Inc., mesne: *See—*
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Bridge, David, & Company: *See—*
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Bridge, John. System and apparatus for holding freight containers of vehicles and the like. 3,653,521, 4-4-72, Cl. 214-38.

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Burke, Noel I.; Bridgeford, Douglas J.; and Turbak, Albin F., 3,666,739.

Bridgeford, Douglas J.; Turbak, Albin F.; and Burke, Noel I., to Tee-Pak, Inc. Anti-soil coating-containing shaped articles. 3,649,346, 3-14-72, Cl. 117-138.8.

Bridgeford, Douglas J., to Tee-Pak, Inc. Gas release from cellulose casing by multiple perforations. 3,669,791, 6-13-72, Cl. 156-244.000.

Bridgeford, Douglas J.; Turbak, Albin F.; and Burke, Noel I., to Tee-Pak, Inc. Sulfonated polymeric alcohols. 3,689,466, 9-5-72, Cl. 260-79.30r.

Bridgeman, Cecil K., to Picker X-ray Mfg. Limited. Film pickup system. 3,684,276, 8-15-72, Cl. 271-20.000.

Bridgeman, Richard C.; and Gajewski, Wieslaw, to Vapor Corporation. Portable dew point hygrometer. 3,664,177, 5-23-72, Cl. 73-17.00a.

Bridgeport Metal Goods Manufacturing Company, The: *See—*
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Bridger, Robert F., to Mobil Oil Corporation. Organic compositions containing amines and metals or the salts thereof. 3,634,238, 1-11-72, Cl. 252-26.

Bridger, Robert F.; Kinney, Robert E.; and Williams, Albert L., to Mobil Oil Corporation. Preparation of polyphenyl ether from dihydric phenols. 3,651,151, 3-21-72, Cl. 260-613.

Bridger, Robert F., to Mobil Oil Corporation. Process for preparing carbon-carbon coupled dimers of N-arylnaphthylamines. 3,665,038, 5-23-72, Cl. 260-576.000.

Bridger, William: *See—*
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Bridges, John: *See—*
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Bridges, John A., to Aladdin Industries, Incorporated. Stacked insulated cups. 3,684,123, 8-15-72, Cl. 220-9.00r.

Bridges, Richard J., to Koppers Company, Inc. Automatic SCR precipitator control. 3,648,437, 3-14-72, Cl. 55-105.

Bridges, Ronald P. Circuit disconnect apparatus for overhead electric lines. 3,637,959, 1-25-72, Cl. 200-48.
Bridges, Thomas James; Kaminow, Ivan Paul; and Pollack, Martin Alan, to Bell Telephone Laboratories, Incorporated. Optical modulation by submillimeter-wave signals and applications thereof. 3,644,846, 2-22-72, Cl. 332-7.51.
Bridges, Wade: *See—*
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Bridgestone Tire Company Limited: *See—*
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Honda, Toshio; Kubota, Eishi; Fukuura, Yukio; and Kobayashi, Yoneji, 3,705,868.
Iwami, Ichiro; Honda, Toshio; and Fukuura, Yukio, 3,673,022.
Maruyama, Hideyo, 3,664,490.
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Onishi, Akira; Irako, Koichi; Hayakawa, Yoshihiro; Shimomura, Takeshi; Iwami, Koichi; and Miyamoto, Shoji, 3,660,365.
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Bridgewater, Thomas Austin, to RCA Corporation. Motor control circuit. 3,706,016, 12-12-72, Cl. 318-16.000.
Bridigum, Robert J., to Westinghouse Air Brake Company. Cam arrangement for brake head position adjustment. 3,707,209, 12-26-72, Cl. 188-220.600.
Bridwell, John Dewey; and Wadsworth, Donald van Zelm, to Bell Telephone Laboratories, Incorporated. Rapid polling method for digital communications network. 3,652,993, 3-28-72, Cl. 340-147.
Brieger, Emmet F., to Schlumberger Technology Corporation. Methods and apparatus for inhibiting the entrance of loose formation materials into a well bore. 3,633,674, 1-11-72, Cl. 166-315.
Brieger, Emmet F., to Schlumberger Technology Corporation. Well perforating apparatus. 3,659,658, 5-2-72, Cl. 175-4.6.
Brieke, Hans-Gunter: *See—*
Staarmann, Herbert; Brieke, Hans-Gunter; and Gerdes, Dirk, 3,701,635.
Brieko, Meindert Willem. Method of making a heating body. 3,665,598, 5-30-72, Cl. 29-611.
Brien, Andre. Watch display case. 3,670,437, 6-20-72, Cl. 40-126.00b.
Brien, Andre N. Wrist watch with dial illuminating device. 3,681,587, 8-1-72, Cl. 240-2.100.
Brienza, Michael J., to United Aircraft Corporation. Laser-acoustic processor for accomplishing time reversal of an electric signal. 3,644,742, 2-22-72, Cl. 250-216.
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Brieske, Bernard F. Inflatable plastic structures. 3,664,058, 5-23-72, Cl. 46-90.
Briesofsky, Gunter, to Werkzeugmaschinenfabrik Adolf Waldrich Coburg. Device for compensating the head weight on portal or cantilever type machine tools. 3,683,744, 8-15-72, Cl. 90-11.00f.
Brigg, Alan Henry: *See—*
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Briggs, Albert Theodore; and Swisher, Eugene Henry, to United Engineering and Foundry Company. Holding shelf apparatus. 3,670,551, 6-20-72, Cl. 72-252.000.
Briggs, Albert Theodore, to United Engineering and Foundry Company. Strip coil feeding device. 3,695,542, 10-3-72, Cl. 242-70.600.
Briggs, Barry D., to Collins Radio Company. Signal controlled wide range relaxation oscillator apparatus. 3,693,112, 9-19-72, Cl. 331-111.000.
Briggs, Benjamin R.: *See—*
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Briggs, Benjamin R., to Purex Corporation, Ltd. House hold bleach having stable opacifier. 3,663,442, 5-16-72, Cl. 252-95.000.
Briggs, Benjamin R., to Purex Corporation, Ltd. Method of combining optical brighteners with polymers for stability in bleach and encapsulated product. 3,666,680, 5-30-72, Cl. 252-316.000.
Briggs, Benjamin R., to Purex Corporation, Ltd. Household hypochlorite bleach with stable latex opacifier. 3,689,421, 9-5-72, Cl. 252-95.000.
Briggs, Bill N., to United States of America, Army, mesne. Dual property steel armor. 3,694,174, 9-26-72, Cl. 29-196.100.
Briggs, C. A., Company: *See—*
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Briggs, Charles A., Jr.; and Vogelsberg, Walter H., to Briggs, C. A., Company. Audible signal or alarm device including two variable frequency unjunction transistor oscillators. 3,693,110, 9-19-72, Cl. 331-47.000.
Briggs, Donald L. Air cushion and seat frame. 3,680,918, 8-1-72, Cl. 297-456.000.
Briggs, Elwin E.: *See—*
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Briggs, Eugene C.; and Wellbaum, William C., to Koehring Company. Combustion apparatus. 3,666,396, 5-30-72, Cl. 431-264.000.
Briggs, Eugene C., to Koehring Company. Portable heater. 3,706,446, 12-19-72, Cl. 263-19.00a.
Briggs, George E., Jr., to Halliburton Company. Method and apparatus for releasing a perforation and sealing tool from a well bore. 3,688,849, 9-5-72, Cl. 175-4.520.
Briggs, Jack, to Rolls-Royce Limited. Motor vehicle. 3,633,698, 1-11-72, Cl. 180-10.
Briggs, John A.; and Ward, Ronald C., to Telemation, Inc. Automatic reference level set for television cameras. 3,670,100, 6-13-72, Cl. 178-7.100.
Briggs, Peter James; and Clegg, William Raymond, to Imperial Chemical Industries, Limited. Process for manufacture of rigid non-cellular polyurethane. 3,635,904, 1-18-72, Cl. 260-77.5.
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Briggs, Ronald, to National Research Development Corporation. Measurement of optical density. 3,652,850, 3-28-72, Cl. 250-43.5.
Briggs, Southwick W., 50% Brazerol, William. Composite filter assembly. 3,656,627, 4-18-72, Cl. 210-315.000.
Briggs, Walton E., to Norton Company. Leak detector. 3,690,151, 9-12-72, Cl. 73-40.700.
Briggs, Warren S.: *See—*
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Briggs, Warren S.; and Ciapetta, Frank G., to Grace, W. R., & Co. Exhaust gas oxidation catalyst and process. 3,661,806, 5-9-72, Cl. 252-470.
Brigham, Kristin; and Vickery, Ronald C., to Ceramco, Inc. Dental prosthesis model base composition containing calcium fluoride. 3,647,488, 3-7-72, Cl. 106-35.
Brigham, Kristin; and Vickery, Ronald C., to Ceramco, Inc. Castable-refractory die composition essentially free of calcium aluminate and method of using. 3,649,732, 3-14-72, Cl. 264-63.
Brigham, Owsley H. Camera flash switch adapter. 3,703,131, 11-21-72, Cl. 95-11.00l.
Bright, Arthur W. Countercurrent contact apparatus. 3,658,484, 4-25-72, Cl. 23-270.5.
Bright, Charles R. Glass lens edging apparatus. 3,672,855, 6-27-72, Cl. 51-101.0lg.
Bright, Charles R.; and Harris, Walter L. Poultry loading apparatus. 3,702,600, 11-14-72, Cl. 119-82.000.
Bright, Elvin M. Finely molded decorative and structural articles. 3,687,793, 8-29-72, Cl. 161-5.000.
Bright, Elvin M. Molded drinking receptacle. 3,705,660, 12-12-72, Cl. 215-1.00c.
Bright, James A., to General Motors Corporation. Hydraulic thermostat. 3,680,022, 7-25-72, Cl. 337-315.000.
Bright, James A.; and Wilson, Craig L., to Hathaway Instruments, Inc. Decoding system and method for generating time signals. 3,684,964, 8-15-72, Cl. 325-58.000.
Bright, Jerald L.: *See—*
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Bright, John Harvey, to American Cyanamid Company. Nickel amide complexes of bis phenol sulfides. 3,636,022, 1-18-72, Cl. 260-439.
Bright, Joseph P. Furniture construction. 3,643,529, 2-22-72, Cl. 16-96.
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Bright, Royal E.; Rees, Richard W.; and Smith, Herchel, to American Home Products Corporation. 1,2,3,4-Tetrahydro-1,1,4,4-tetramethyl-2-naphthylamines. 3,661,992, 5-9-72, Cl. 260-570.81.
Bright, William L. Tension brake assembly for stringing conductors. 3,703,980, 11-28-72, Cl. 226-90.000.
Brightenback, George E.; and Harris, Elbert E., to Merck & Co., Inc. Method for the treatment of gasterophilus intestinalis. 3,632,775, 1-4-72, Cl. 424-322.
Brighton, Jack Edward, to B&B Pipul, Inc. Pipe joining machine. 3,639,967, 2-8-72, Cl. 29-237.
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Brignall, Clifford N. Packaging method. 3,640,047, 2-8-72, Cl. 53-22.
Briles, Franklin S. Self-gauging, interference fit rivet. 3,680,429, 8-1-72, Cl. 85-37.000.
Briles, Franklin S. Re-usable, spin-stopping fastener. 3,682,508, 8-8-72, Cl. 287-189.36f.
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Brill, Eugene L.; and Brill, Beatrice M. Oil skimmer with oscillatable circular loop. 3,640,394, 2-8-72, Cl. 210-322.
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Brill-Edwards, Harry, to Chromalloy American Corporation. Multi-metal corrosion-resistant diffusion coatings. 3,642,457, 2-15-72, Cl. 29-196.5.
Brill-Edwards, Harry W.: *See—*
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Brill-Edwards, Harry W., to Chromalloy American Corporation. Method for coating heat resistant alloys. 3,694,255, 9-26-72, Cl. 117-107.20p.
Brillaud, Andre R., to Sun Oil Company. Fermentation of anthracene. 3,634,192, 1-11-72, Cl. 195-28.
Brillaud, Andre R.; and Gallin, Lawrence F., to Systematic Research & Development Corporation. Multi-use dispensing device. 3,706,140, 12-19-72, Cl. 34-60.000.
Brille, Maurice G.; and Baguelin, Yves-Marie E., to Societe Anonyme de Vehicules Industriels et d'Equipements mecaniques S.A.V.I.E.M. Fumigation devices for supercharged diesel engines. 3,665,905, 5-30-72, Cl. 123-119.00c.
Brille, Maurice Georges, to Societe Anonyme de Vehicules Industriels et d'Equipements Mecaniques, S.A.V.I.E.M. Device for reducing leakage in rotary engines at low running speeds. 3,707,340, 12-26-72, Cl. 418-115.000.
Brillinger, James H., to Grace, W. R., & Co. Sealing composition containing a gelled polybutene oil plasticizer. 3,637,556, 1-25-72, Cl. 260-23.7.
Brillion Iron Works, Inc.: *See—*
Hoyt, Charles T.; Haun, John W.; Hensel, Dwight L.; Hansen, Clarence M.; Lovely, Walter G.; and Bruhn, Hjalmar D., 3,671,077.
Brilman, Michel Edmond Francis; Campagne, Jean-Pierre Alain; and Gorinas, Guy Georges, to Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique 'Alcatel'. Superconductive data storage arrangement. 3,641,517, 2-8-72, Cl. 340-73.1.
Brimberg, Torsten. Rod coupler with sheath. 3,682,504, 8-8-72, Cl. 287-49.000.
Brimer, Joe W. Electrical supervisory control. 3,646,354, 2-29-72, Cl. 307-10.
Brimer, Joe W. Von. Combustion product processing device and method. 3,695,192, 10-3-72, Cl. 110-8.00a.
Brimhall, Ray S.; deceased (by Walker Bank and Trust Co.; administrator). Retorting apparatus with hood-shaped unitary coolant jacket disposed over screw conveyor. 3,691,019, 9-12-72, Cl. 202-118.000.
Brimhall, Ray S.; deceased (by Walker Bank and Trust Co.; administrator). Method of processing oil shale. 3,697,412, 10-10-72, Cl. 208-11.000.
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Brinckman, Eric Maria; Van Den Heuvel, Walter August; Vanhalst, Johan Eugeen; and Heugebaert, Frans Clement, to Gevaert-Agfa N.V. Photosensitive printing-out composition containing chemically sensitized ortho-rhombic crystalline Pb(II) oxide. 3,700,452, 1024-72, Cl. 96-88.000.
Brindell, Gordon D.; and Dannals, Leland E., to Uniroyal, Inc. Antistatic carpet composition containing alkali metal carboxylate and polyhydric alcohol. 3,658,744, 4-25-72, Cl. 260-29.7.
Brindisi, Frank A., Jr.; Nagy, Joseph S.; and Yarkosky, Eugene F., to Enthone, Incorporated. Selectively stripping tin and/or lead from copper substrates. 3,677,949, 7-18-72, Cl. 252-79.400.
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Brindley, Hanby S.; Buyers, John A., Jr.; Gerard, Turpin; and McClung, John S., Jr., to Textron, Inc. Dual torque indicator. 3,653,257, 4-4-72, Cl. 73-138.
Brindley, Robert Edwin, to Union Carbide Corporation. Multiple cell galvanic battery. 3,650,841, 3-21-72, Cl. 136-132.
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Stamm, Robert Franz; Brinen, Jacob Solomon; Tennant, Evalyn Hosterman; and Halverson, Frederick, 3,635,544.
Briner, Arthur N. Safety auto seat. 3,645,548, 2-29-72, Cl. 297-216.
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Bringe, Wolfgang; Querfurth, Eberhard; Schanbacher, Hans-Albr.; Seiberth, Hans-Jurgen; and Vieser, Wolfgang, to Siemens Aktiengesellschaft. Magnetic circuit structure for high-resolution nuclear resonance spectrometers. 3,662,304, 5-9-72, Cl. 335-297.
Bringolf, Richard G. Flexible conduit. 3,706,326, 12-19-72, Cl. 138-129.000.
Brink, David L.; and Thomas, Jerome F., to University of California, The Regents of the. Method and apparatus for preventing formation of atmospheric pollutants in the combustion of organic material. 3,639,111, 2-1-72, Cl. 48-111.
Brink, Delbert L. Knockdown foamed plastic shipping container. 3,675,808, 7-11-72, Cl. 220-7.000.
Brink, Edwin H., to FMC Corporation. Apparatus for precision planting. 3,636,897, 1-25-72, Cl. 111-77.
Brink, Edwin H.; and Palmer, Warren G., to FMC Corporation. Foam flotation concentrator. 3,642,617, 2-15-72, Cl. 210-44.
Brink, Robert E.: *See—*
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Brinkley, Max D.; and Kerr, Glenn D., to Goodyear Tire & Rubber Company, The. Apparatus for wrapping a flexible endless band into a coil. 3,694,998, 10-3-72, Cl. 53-116.000.
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Brinkley, William J., III. Container and drinking tube. 3,656,654, 4-18-72, Cl. 220-90.2.
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Brinkman, Dale C., to Caterpillar Tractor Company. Torsional vibration damper having independent weights. 3,653,278, 4-4-72, Cl. 74-574.
Brinkman, Dale U. Operably aligned and clamped earth boring machine. 3,696,874, 10-10-72, Cl. 175-122.000.
Brinkman, Earl H., to General Electric Company. Welded inlet pipe and nozzle box construction for steam turbines. 3,659,956, 5-2-72, Cl. 415-219.
Brinkman, George H., Jr., to Monsanto Company. Process for pigmenting linear saturated polyesters. 3,668,169, 6-6-72, Cl. 260-31.8xa.
Brinkman, Hendrik Willem; and van der Heyden, Arnoldus, to Lever Brothers Company. Thia-alkanethiols as meat flavors. 3,653,920, 4-4-72, Cl. 99-140.
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Brinkmann, Gerhard; and Muller, Frohmut, to Voigtlander A.G. Photographic slide projectors. 3,661,450, 5-9-72, Cl. 253-92.
Brinkmann, Jurgen; and Gehrke, Wieland, to Varta Aktiengesellschaft. Method and means for preheating electric accumulators such as lead-acid storage batteries. 3,654,426, 4-4-72, Cl. 219-209.
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Brinkmann, Ludwig; and Herwig, Walter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyester-ionic copolymer thermoplastic moulding compositions. 3,639,527, 2-1-72, Cl. 260-873.
Brinkmann, Ludwig, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Injection molded articles of thermoplastic polyester resins containing titanium dioxide. 3,663,499, 5-16-72, Cl. 260-40.
Brinkmann, Ludwig; and Herwig, Walter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Thermoplastic polyester moulding compositions containing boron nitride. 3,679,628, 7-25-72, Cl. 260-45.7ps.
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Brinkmeier, Friedhelm; and Rocker, Hermann, to Windmoller & Holscher. Apparatus for compressing and packaging a stack of flattened bags or the like. 3,650,087, 3-21-72, Cl. 53-124.
Brinks, Floyd J.; Day, Lucian P., Jr.; and Jones, Jerry L., to Pullman Incorporated. Roof structure for railway cars. 3,678,867, 7-25-72, Cl. 105-377.000.
Brinning, Earl E., to Burroughs Corporation. Sensing coded periphery of objects. 3,632,991, 1-4-72, Cl. 235-61.11.
Brinning, Earl E., to Burroughs Corporation. Document reading apparatus. 3,691,352, 9-12-72, Cl. 235-61.11c.
Brint, Norman Trevor. Sliding breech block mechanism. 3,687,001, 8-29-72, Cl. 89-24.000.
Brint, Norman Trevor, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the. Cartridge clips. 3,690,217, 9-12-72, Cl. 89-34.000.
Brint, Norman Trevor, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Cocking mechanisms for guns. 3,700,394, 10-24-72, Cl. 89-1.00k.
Brint, Norman Trevor, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Loading mechanism for guns. 3,700,395, 10-24-72, Cl. 89-45.000.
Brint, Norman Treyor, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the. Loading mechanisms for guns. 3,690,216, 9-12-72, Cl. 89-33.00a.
Brintley, Eugene L., Sr. Stacking machines. 3,662,901, 5-16-72, Cl. 214-6.
Briody, Robert G.; and Newyear, Edward G., to PPG Industries, Inc. Synthesis of tetramethyllead. 3,655,706, 4-11-72, Cl. 260-437.
Briody, Thomas F., to Western Electric Company, Incorporated. Vapor deposition apparatus. 3,659,552, 5-2-72, Cl. 118-49.5.
Briody, Thomas F., to Western Electric Company, Incorporated. Methods and apparatus for heating and/or coating articles. 3,699,298, 10-17-72, Cl. 219-10.490.
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Briskin, Theodore; and Ward, Geoffrey R., to Sutton Research Corporation. Cigarette paper and method for preparation. 3,640,285, 2-8-72, Cl. 131-2.
Briskin, Theodore S.; and Remanick, Allen H., to Sutton Research Corporation. Method of making a smokable product from oxidized cellulose. 3,643,667, 2-22-72, Cl. 131-2.
Briskin, Theodore S.; and Ward, Geoffrey R., to Sutton Research Corporation. Oxidized cellulose smoking products compositions. 3,643,668, 2-22-72, Cl. 131-2.
Briskin, Theodore S.; and Remanick, Allen H., to Johnson & Johnson, mesne. Hemostatic material. 3,666,750, 5-30-72, Cl. 260-212.
Brisse, Jacques Daniel Philippe; and Joguet, Jean-Claude, to International Standard Electric Corporation. Constant-duty transponder. 3,706,992, 12-19-72, Cl. 343-6.8lc.
Brissey, Charles David; and Trotter, Marvin Nathaniel, to Stevens, J. P., & Co., Inc. Quill or bobbin spinning and winding frame with semi-automatic doffing and donning. 3,678,672, 7-25-72, Cl. 57-52.000.
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Brisson, David W. Board game apparatus. 3,695,614, 10-3-72, Cl. 273-130.0ac.
Brissot, Jean Jacques Lucien Emile, to U.S. Philips Corporation. Method of producing calcium carbonate single crystals. 3,663,180, 5-16-72, Cl. 23-301.
Bristol, Bertram W. Grinding apparatus. 3,679,141, 7-25-72, Cl. 241-106.000.
Bristol, John E., to Du Pont de Nemours, E. I., and Company. Production of 93-100% alcoholyzed polyvinyl alcohol having low cold water solubles content and improved slurring properties. 3,654,247, 4-4-72, Cl. 260-86.1.
Bristol, John E., to Du Pont de Nemours, E. I., and Company. Preparation of polyvinyl alcohol having improved color properties by treating the polyvinyl ester with an alkali metal borohydride. 3,679,646, 7-25-72, Cl. 260-91.3pv.
Bristol, John E., to Du Pont de Nemours, E. I., and Company. Preparation of polyvinyl alcohol having improved color properties by treating the polyvinyl ester with magnesium metal. 3,679,647, 7-25-72, Cl. 260-91.3pv.
Bristol, John E., to Du Pont de Nemours, E. I., and Company. Preparation of polyvinyl alcohol having improved color properties by treating the polyvinyl ester with an alkaline earth metal hydride. 3,679,648, 7-25-72, Cl. 260-91.3pv.
Bristol, John E., to Du Pont de Nemours, E. I., and Company. Preparation of polyvinyl alcohol having improve color properties by treating the polyvinyl ester with ozone. 3,697,495, 10-10-72, Cl. 260-91.3pv.
Bristol, Ross W. Levelling and stabilizing means for house trailers. 3,656,778, 4-18-72, Cl. 280-150.5.
Bristol, Thomas R.; Lakin, Harold; and Renga, Fred L., to Kleer-Vu Industries, Inc. Collating and collecting apparatus. 3,674,142, 7-4-72, Cl. 209-74.000.
Bristol-Myers Company: *See—*
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Buchanan, Ronald Leslie, 3,634,444.
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Harman, Arlington Raymond, Jr.; and Granater, Alphonse Peter, 3,688,945.
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Juby, Peter Frederick; Hudyma, Thomas William; and Partyka, Richard Anthony, 3,644,479.
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Kaser, Walter Edwin; Kaplan, Murray Arthur; and Granatek, Alphonse Peter, 3,634,586.
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Bristow, Robert H., to General Electric Company. Ceramic-to-metal seal. 3,700,420, 10-24-72, Cl. 29-195.000.

Britax (London) Limited: *See—*
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British & Foreign Tobacco Co., Ltd., The: *See—*
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British Aircraft Corporation Limited: *See—*
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British Cast Iron Research Association: *See—*
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British Domestic Appliances Limited: *See—*
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British Hovercraft Corporation Limited: *See—*
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British Industrial Sand Limited: *See—*
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British Lighting Industries Limited: *See—*
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British Needle Company Limited, The: *See—*
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British Nylon Spinners Limited: *See—*
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British Oxygen Company, Limited, The: *See—*
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Budgen, Leslie J., 3,707,339.
Carne, Michael; Smith, Kenneth Cecil; and Webber, David Arthur, 3,707,066.
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British Oxygen Company Limited, The; t/a Edwards High Vacuum International: *See—*
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British Petroleum Company Limited, The: *See—*
Allum, Keith George; Metcalfe, Christopher John Leonard; and Thomasson, Daniel John, 3,642,658.
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McGrath, Brian Patrick; and Bradshaw, Christopher Patrick Cadman, 3,637,892.
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Newman, Michael; and Boocock, David, 3,696,757.
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Brook, David Whiteley; and Ward, Raymond, 3,694,475.
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Britt, A. D.; and Moniz, William B., to United States of America, Navy. Preparation of silicon-fluoride silicones. 3,664,985, 5-23-72, Cl. 260-46.50r.

Britt, Jack; and Honey, Alfred John, to Rolls-Royce Limited. Axial flow compressor. 3,640,638, 2-8-72, Cl. 415-172.

Britt, Jack, to Rolls-Royce Limited. Rotary bladed structure for a fluid flow machine. 3,706,509, 12-19-72, Cl. 415-131.000.

Britt, James E.: *See—*
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Britt, James E.; and Hewitt, Robert E., to Xerox Corporation. Development electrode. 3,670,700, 6-20-72, Cl. 118-636.000.

Britt, James L.; and Hewitt, Robert E., to Xerox Corporation. Conveyor assembly. 3,687,270, 8-29-72, Cl. 198-140.000.

Britt, Tomas M., to Owens-Illinois, Inc. Tray package for tubes. 3,707,227, 12-26-72, Cl. 206-65.00r.

Brittingham, Charles J. Oil collection device. 3,664,505, 5-23-72, Cl. 210-242.000.

Britton, Arthur Wray; Luckey, George Wilson; William, Glenn; and Snyder, John Douglas, to Du Pont de Nemours, E. I., and Company. Ethylene copolymer blend for liquid packaging film. 3,682,767, 8-8-72, Cl. 161-227.000.

Britton, G. B., & Sons Limited: *See—*
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Christie, Gerald Anthony; Doble, Brian Reginald; and Bromfield, Alec Roy, 3,677,679.

Britton, John; and Daniell, Bernard Lawrence, to Spring Research Association, The. Treatment of alloys. 3,658,601, 4-25-72, Cl. 148-12.7.

Britton, Leon R.; and Semerjian, Joseph K., to Seeburg Corporation of Delaware, The. Multiple switch assembly for vending machine selecting apparatus with improved master switch control. 3,706,863, 12-19-72, Cl. 200-5.00r.

Britton, Ralph H., Jr., to Hufnagel, Fred M. Pulse drive circuit for coils of dental impact tools and the like. 3,673,475, 6-27-72, Cl. 318-122.000.

Britton, Richard B.: *See—*
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Britton, Robert A., to Esso Research and Engineering Company. Direct hydration of ethylene to ethanol. 3,686,334, 8-22-72, Cl. 260-641.000.

Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karpovich; Ivanov, ViktorVasilievich; and Semenov, Mikhail Ivanovich. Control device for metering pumps. 3,659,969, 5-2-72, Cl. 417-440.

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Nolin, Roger J.; and Brizzi, Anthony F., 3,647,252.
Roberts, Horace R.; and Brizzi, Anthony F., 3,635,571.

Brizzolara, Donald F.; and Quarles, Richard W., Jr., to Du Pont de Nemours, E. I., and Company. Perfluoro (3-phenoxypropyl vinyl ether) monomer and copolymers made therefrom. 3,682,872, 8-8-72, Cl. 260-80.760.

Brizzolara, Henry M., to Atlas Chemical Industries, Inc. Electropyrotechnic link. 3,660,794, 5-2-72, Cl. 337-401.

Brizzolesi, Gustavo, to Societa Applicazioni Gomma Antivibranti "-SAGA" S.p.A. Flexible couplings. 3,668,891, 6-13-72, Cl. 64-12.

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Broad, Michael John: *See—*
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Broadbent, Berne D., to Hughes Aircraft Company. Write station for a magnetic storage medium. 3,670,312, 6-13-72, Cl. 340-174.0sr.
Broadbent, Douglas: *See—*
Aldridge, David Cecil; Broadbent, Douglas; Hemming, Harold George; Turner, William Brian; and Bent, Keith Joseph, 3,661,935.
Broadbent, Graham; and Mansfield, John Rickard, to Imperial Chemical Industries Limited. Sampling method and apparatus. 3,695,113, 10-3-72, Cl. 73-421.000.
Broadbent, Kent D.: *See—*
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Broadbent, Kent D., to MCA Technology, Inc. Duplicating process for video disc records. 3,658,954, 4-25-72, Cl. 264-1.
Broadbent, Kent D., to Gauss Electrophysics, Inc. Duplicating process for video disc records. 3,687,664, 8-29-72, Cl. 96-35.100.
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Grimwood, Geoffrey L.; and Ferrier, Duncan C., 3,650,465.
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Broadfoot, John T. Deep water pumping of fluids and semifluids. 3,669,574, 6-13-72, Cl. 417-477.000.
Broadhead, Ronald L., to Standard Oil Company, (Indiana). Internal dianhydride of 2,2'3,3'-tetracarboxy benzophenone. 3,652,598, 3-28-72, Cl. 260-346.3.
Broadhead, Sharon Ann, nee Rulon, to Stauffer Chemical Company. Lactalbumin phosphate as a replacement for egg white. 3,706,575, 12-19-72, Cl. 99-114.000.
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Broadley, Robert: *See—*
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Broadway, Alexander Richard William; Fong, William; and Rawcliffe, Gordon Hindle, to National Research Development Corporation. Pole-changing, three-phase alternating current induction motor, with single-layer stator winding. 3,673,477, 6-27-72, Cl. 318-22.00r.
Broadway, Alexander Richard William; Fong, William; and Rawcliffe, Gordon Hindle, to National Research Development Corporation. Three-phase alternating current self-cascaded rotary electric machine. 3,686,553, 8-22-72, Cl. 318-199.000.
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Broadworth, Max R.: *See—*
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Brobeck, Von H.; and Zulick, Mike, to Goodyear Tire & Rubber Company, The. Method of making a vented tire mold. 3,692,090, 9-19-72, Cl. 164-71.000.
Brobeck, William M.: *See—*
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Broberg, Robert W.: *See—*
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Brobston, Scott. Golf course with target greens and separate putting greens. 3,695,619, 10-3-72, Cl. 273-176.00a.
Broca, Jacques; Loree, Jean-Paul; and Schatz, Ralph Howard, to Esso Research and Engineering Company. Petroleum resins. 3,639,366, 2-1-72, Cl. 260-82.
Brocato, Samuel C. Dish tray. 3,670,938, 6-20-72, Cl. 224-48.00r.
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Brochard, Claude; and Cossart, Rene, to Creusot-Loire. Positioning the work in a milling lathe. 3,677,114, 7-18-72, Cl. 82-2.500.
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Brociner, Ronald Eric; and Moon, William Raymond Collins, to English Clays Lovering Pochin & Company Limited. Filter elements. 3,659,718, 5-2-72, Cl. 210-333.
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Brock, James, to Imperial Chemical Industries Limited. Pneumatic device for forwarding filamentary material. 3,698,612, 10-17-72, Cl. 226-91.000.
Brock, James D.: *See—*
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Brock, James Donald, to CMI Corporation. Asphalt preparation plant. 3,693,945, 9-26-72, Cl. 259-146.000.
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Brock, Robert J.; and Hansen, Paul B., to Kimberly-Clark Corporation. Orthotropic fiber-reinforced thermoplastic film and method of manufacture. 3,663,344, 5-16-72, Cl. 161-959.
Brock, Robert J.; and Thomas, Gordon D., to Kimberly-Clark Corporation. High bulk laminates. 3,695,985, 10-3-72, Cl. 161-129.000.
Brock, Walter B. Climate conditioner for motor vehicles. 3,680,467, 8-1-72, Cl. 98-2.110.
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Brockbank, William Hughes. Artificial fireplace logs which burn with colored flame. 3,637,355, 1-25-72, Cl. 44-1.
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Brockett, Bruce W.: *See—*
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Brockett, Bruce W., to National Cash Register Company, The. Acid sensitized record sheet. 3,634,121, 1-11-72, Cl. 117-36.2.
Brockett, Peter C.; and Pallat, Ludwig R., to LFE Corporation. Local controller for traffic control system. 3,641,486, 2-8-72, Cl. 340-41.
Brockie, Thomas H., to Chrysler Corporation. Noise reduction apparatus. 3,676,012, 7-11-72, Cl. 415-119.000.
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Brocklehurst, Peter John; and Hemingway, Eric, to Imperial Chemical Industries Limited. Pyrene derivatives as optical brighteners. 3,657,139, 4-18-72, Cl. 252-301.2.
Brockman, Edwin. Toothbrush. 3,677,264, 7-18-72, Cl. 128-62.00a.
Brockman, Edwin. Paint and enamel touch-up tool. 3,688,450, 9-5-72, Cl. 51-181.000.
Brockman, John J.: *See—*
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Brockmann, Heinz, to Brockmann & Bundt Industrie-Ofenbau. Furnace having structure for feeding work through a heat tunnel. 3,664,649, 5-23-72, Cl. 263-6.
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Brode, George L., to Union Carbide Corporation. Vulcanized silicon terminated polymers. 3,678,010, 7-18-72, Cl. 260-75.00t.
Brode, George Lewis: *See—*
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Broderick, John E., to Martin-Marietta Corporation. Apparatus for contouring a honeycomb core. 3,702,072, 11-7-72, Cl. 72-307.000.
Broderick, Rory Wilson, to Institute for Industrial Research and Standards and Thompson, Norman John. Aerosol containers and valves thereof. 3,664,548, 5-23-72, Cl. 222-61.
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Brodie, John Alfred, to Union Carbide Australia Limited. Solid-liquid continuous countercurrent purifier method and apparatus. 3,645,699, 2-29-72, Cl. 23-273.
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Brodie, Nathan. Reversible intra-vas device. 3,648,683, 3-14-72, Cl. 128-1.
Brodie, Richard A. Magnetic battery mounting. 3,695,938, 10-3-72, Cl. 136-173.000.
Broding, Robert A., to Seismograph Service Corporation. Air cushion seismic vibrator. 3,701,968, 10-31-72, Cl. 340-17.000.
Brodlin, Wilhelm Genannt Willi; and Weishaupt, Siegfried, to Weishaupt, Max, GmbH. Method and apparatus for gasifying liquid fuels and effecting a complete combustion thereof. 3,693,887, 9-26-72, Cl. 239-500.000.
Brodnicki, Anthony F., to Ny Met Industries, Inc. Strap system for material handling. 3,686,715, 8-29-72, Cl. 24-68.0cd.
Brodnitz, Michael H.; and Pascale, John V., to International Flavors & Fragrances Inc. Method of making aliphatic di- and trisulfide flavoring materials. 3,647,481, 3-7-72, Cl. 99-140.
Brodnitz, Michael H.; Pascale, John V.; and Vock, Manfred H., to International Flavors & Fragrances Inc. Thioalkanal-S-oxides. 3,686,323, 8-22-72, Cl. 260-607.00r.
Brodnitz, Michael H.; and Pascale, John V., to International Flavors & Fragrances Inc. Process for producing di- and trisulfides from thiosulfinotes. 3,686,324, 8-22-72, Cl. 260-608.000.
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Brodoway, Nicolas, to Du Pont de Nemours, E. I., and Company. Branched-chain hydrocarbon elastomers. 3,652,729, 3-28-72, Cl. 260-878.
Brodrene Gram A/A: *See*—
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Brody, Herbert M., to American Standard, Inc. Refrigerant flow control employing plural valves. 3,640,086, 2-8-72, Cl. 62-210.
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Brody, Norman M., to Norman Industries, Inc. Iridescent plastic article and method of production. 3,660,211, 5-2-72, Cl. 161-2.
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Brody, Thomas P.; Page, Derrick J.; and Raygor, Paul O., to Westinghouse Electric Corporation. Thin film electronic components on flexible metal substrates. 3,657,613, 4-18-72, Cl. 317-235.
Brody, Thomas P., to Westinghouse Electric Corporation. Thin film optoelectronic semiconductor device using light coupling. 3,705,309, 12-5-72, Cl. 250-217.00s.
Broecker, Bernhard, to Reichhold-Albert-Chemie Aktiengesellschaft. Method for manufacturing water-dilutable, vinyl modified synthetic resins based on polyether esters. 3,663,484, 5-16-72, Cl. 260-19.
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Broeg, Charles; Monti, Anthony; and Troy, John P., to SuCrest Corporation. Direct compression vehicles and method therefor. 3,639,169, 2-1-72, Cl. 127-29.
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Brojdo, Samuel, to Bell Telephone Laboratories, Incorporated. Semiconductor apparatus for image sensing and dynamic storage. 3,676,715, 7-11-72, Cl. 307-304.000.
Brojdo, Samuel, to Bell Telephone Laboratories, Incorporated. Charge storage flip-flop. 3,686,645, 8-22-72, Cl. 340-173.0ff.
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Brokke, Mervin E., to Stauffer Chemical Company. 2- and 4-(3,4,4-Trifluoro-3-butenyl-thio) pyridines. 3,654,293, 4-4-72, Cl. 260-294.8.
Brokke, Mervin E.; Williamson, Thomas B.; and Lukes, George E.; deceased (by Jaeschke, Wayne C.; special administrator), to Stauffer Chemical Company. 3,4,4-Trifluoro-3-butenylthio methylidene compounds and their utility. 3,654,333, 4-4-72, Cl. 260-453.
Brokke, Mervin E.; Williamson, Thomas B.; and Lukes, George E.; deceased (by Jaeschke, Wayne C.; special administrator), to Stauffer Chemical Company. 3,4,4-Trifluoro-3-butenyl) N-substituted isothiourea compounds and their utility. 3,654,362, 4-4-72, Cl. 60-564.

Brokke, Mervin E., to Stauffer Chemical Company. Trifluorobutenyl sulfides. 3,666,818, 5-30-72, Cl. 260-608.

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Broman, Carl L.; and Schwieterman, Richard A., to General Electric Company. Gas turbine engine with improved auxiliary power take-off mechanism. 3,688,560, 9-5-72, Cl. 74-15.630.

Bromell, Raymond J., to Automatic Drilling Machines Inc. Automatic coupling system. 3,662,842, 5-16-72, Cl. 173-1.

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DePalma, Ted V.; Brons, Albert J.; and Perga, Martin W., 3,685,972.
Perga, Martin W.; DePalma, Ted V.; Fessler, LeRoy E.; and Brons, Albert J., 3,649,215.

Bronson, Charles L., to Varel Manufacturing Company. Sealed bearing earth boring bit. 3,663,073, 5-16-72, Cl. 308-8.2.

Bronson, George E., to N L Industries, Inc., mesne. Titanium dioxide pigment compositions of matter useful in printing ink compositions. 3,674,528, 7-4-72, Cl. 106-300.000.

Bronson, Joseph. Car top carrier structure with locking means. 3,638,844, 2-1-72, Cl. 224-42.1.

Bronstein, Benjamin. Pick-up load holder. 3,677,562, 7-18-72, Cl. 280-179.00a.

Bronstein, Harry. Steering indicator. 3,673,561, 6-27-72, Cl. 340-52.00r.

Bronstein, Harry. Circumcision clamp. 3,678,935, 7-25-72, Cl. 128-325.000.

Bronstein, Leonard. Method and product of making multifocal contact lenses and lens blanks. 3,697,629, 10-10-72, Cl. 264-1.000.

Bronstert, Klaus: *See—*
Heil, Eduard; Trieschmann, Hans-Georg; Willersinn, Herbert; Bolte, Herbert; and Bronstert, Klaus, 3,676,378.

Bronstert, Klaus; Buchholz, Karl; Echte, Adolf; and Hofmann, Juergen, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of rubber-modified vinylaromatic polymers. 3,658,946, 4-25-72, Cl. 260-878.

Bronstert, Klaus; Ladenberger, Volker; and Fahrbach, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Catalytic hydrogenation of polymers containing double bonds. 3,673,281, 6-27-72, Cl. 260-880.00b.

Bronzine, Bruno, to Fratelli Morando & C. S.p.A. Horizontal lathe with overhead bridge. 3,673,898, 7-4-72, Cl. 82-2.500.

Bronzini, Bruno, to Fratelli Morando & C. S.p.A. Article transfer mechanism. 3,645,408, 2-29-72, Cl. 214-1.

Brook, David Whiteley; and Ward, Raymond, to British Titan Products Company Limited. Titanium compounds. 3,679,721, 7-25-72, Cl. 260-429.500.

Brook, David Whiteley; and Ward, Raymond, to British Titan Products Company Limited. Titanium compounds. 3,694,475, 9-26-72, Cl. 260-429.500.

Brook, James H. T.; and Williams, Joyce, to Shell Oil Company. Lubricant compositions. 3,679,585, 7-25-72, Cl. 252-51.50a.

Brook, John W.; and Hoch, Samuel, to Tenneco Chemicals, Inc. Stabilized vinyl resin compositions. 3,647,748, 3-7-72, Cl. 260-45.75.

Brook, Richard A.: *See—*
West, Robert N.; Brook, Richard A.; Shaw, Richard G.; Lobb, Daniel R.; and Allnutt, Anthony J., 3,676,008.

Brook, Richard G. Electrical safety device. 3,656,083, 4-11-72, Cl. 339-39.

Brookdeal Electronics Limited: *See—*
Faulkner, Eric Andrew, 3,673,506.

Brooke, David W. I., to International Harvester Company of Great Britain Limited, mesne. Vehicle guidance systems. 3,669,205, 6-13-72, Cl. 180-98.000.

Brooke, David William Ingham, to International Harvester Company of Great Britain Limited, mesne. Vehicle guidance systems. 3,669,208, 6-13-72, Cl. 180-98.000.

Brooke, David William Ingham, to International Harvester Company of Great Britain Limited, mesne. Vehicle guidance systems. 3,669,209, 6-13-72, Cl. 180-98.000.

Brooke, Edric Raymond, to English Numbering Machines Limited. Mounting arrangement for an elongated record carrier. 3,633,845, 1-11-72, Cl. 242-198.

Brooke, Edric Raymond, to English Numbering Machines Limited. Shim adjustable pressure members for magnetic tape transducing devices. 3,641,283, 2-8-72, Cl. 179-100.2.

Brooke, Thomas Andrew; and Robinson, Peter Michael, to Dunlop Rubber Company Limited. Manufacture of sheet material. 3,639,190, 2-1-72, Cl. 156-272. .

Brooker, Leslie G. S.: *See—*
Chapman, Derek D.; and Brooker, Leslie G. S., 3,649,266.
Fumia, Arthur, Jr.; and Brooker, Leslie G. S., 3,655,392.
Fumia, Arthur, Jr.; Heseltine, Donald W.; and Brooker, Leslie G. S., 3,671,648.
Jenkins, Philip W.; and Brooker, Leslie G. S., 3,681,081.
Oliver, Gene L.; and Brooker, Leslie G. S., 3,656,957.
Van Lare, Earl J.; and Brooker, Leslie G. S., 3,678,045.

Brooker, Leslie G. S.; and Van Lare, Earl J., to Eastman Kodak Company. Cyanine dyes containing an imidazo [4,5-b] quinoxaline nucleus. 3,632,808, 1-4-72, Cl. 260-240.4.

Brooker, Leslie G. S.; Daniel, Daniel S.; and Taber, Robert C., to Eastman Kodak Company. Silver halide emulsions containing a dye derived from 4,6-diaryl substituted picolinium salts as desensitizer. 3,639,127, 2-1-72, Cl. 96-101.

Brooker, Leslie G. S.; Fumia, Arthur, Jr.; and Heseltine, Donald W., to Eastman Kodak Company. Silver halide emulsions and elements comprising trimethine hemioxonal dyes. 3,652,289, 3-28-72, Cl. 96-139.

Brooker, Leslie G. S.; and Fumia, Arthur, Jr., to Eastman Kodak Company. Silver halide emulsions sensitized with methine dyes containing a cyclopentanone nucleus. 3,672,906, 6-27-72, Cl. 96-142.000.

Brooker, Leslie G. S.; and Van Lare, Earl J., to Eastman Kodak Company. Photographic emulsions containing new benzimidazole compounds as sensitizing dyes. 3,684,517, 8-15-72, Cl. 96-128.000.

Brookes, Kenneth A., to Associated Electrical Industries Limited. Electron microscope with multi-focusing electron lens. 3,660,657, 5-2-72, Cl. 250-49.5.

Brookes, Kenneth Joseph Alban, to International Nickel Company Inc., The. Calculating device. 3,685,727, 8-22-72, Cl. 235-70.00r.

Brookfield Industries, Inc.: *See—*
Hatch, Edwin B.; and Schwengel, Steven, 3,651,880.

Brookhyser, Byron B., to Weyerhaeuser Company. Thin sheet thrower. 3,674,256, 7-4-72, Cl. 271-63.000.

Brookhyser, Byron B., to Weyerhaeuser Company. Automatic sheet stacker. 3,690,649, 9-12-72, Cl. 271-68.000.

Brookhyser, Byron B., to Weyerhaeuser Company. Sheet positioner. 3,704,882, 12-5-72, Cl. 271-68.000.

Brooking, Ivor Harold: *See—*
Chilman, John Alfred; and Brooking, Ivor Harold, 3,647,320.

Brooking, Ivor Harold; and Chilman, John Alfred, to Dowty Rotol Limited. Bladed rotors. 3,663,119, 5-16-72, Cl. 416-157.

Brookline Instrument Company: *See—*
Swersey, Burt L., 3,656,478.

Brookman, Robert S.; Grib, Stephen; and Pearson, Dale S., to Firestone Tire and Rubber Company, The. Process for the preparation of pressure sensitive adhesives. 3,661,618, 5-9-72, Cl. 117-62.

Brooks, Berry A.; and Eisdorfer, Norman R., to Johnson & Johnson. Absorbent sponges. 3,683,921, 8-15-72, Cl. 128-296.000.

Brooks, Charles G.; and Peterson, Noel C., to Westinghouse Electric Corporation. Planar-type spiral antenna. 3,638,226, 1-25-72, Cl. 343-895.
Brooks, David; and Reteff, Arthur L., to Serco Engineering Limited. Dockboards. 3,662,416, 5-16-72, Cl. 14-71.
Brooks, David Hugh; Cox, John Michael; and Kay, Ian Trevor, to Imperial Chemical Industries Limited. Alpha cyanobenzyl xanthates having pesticidal properties. 3,646,094, 2-29-72, Cl. 260-455.
Brooks, David N.: *See*—
Dayton, David R.; and Brooks, David N., 3,659,092.
Brooks, David N., to Eastman Kodak Company, mesne. Photographic apparatus. 3,640,196, 2-8-72, Cl. 95-11.5.
Brooks, David N.; Paulauskas, Clyde L.; and Edin, Ronald E., to Sylvania Electric Products, Inc. Bunsen burner simulating flameless electric heater. 3,654,431, 4-4-72, Cl. 219-373.
Brooks, Dean P.: *See*—
White, Allen A.; Garrison, Harold Keith; and Brooks, Dean P., 3,691,741.
Brooks, Dean P., to Hesston Corporation. Conveyor-cleaner. 3,648,826, 3-14-72, Cl. 198-213.
Brooks, Doyle K. Book mark and page holding device. 3,701,332, 10-31-72, Cl. 116-119.000.
Brooks, E. J., Company: *See*—
Moberg, Sigurd M., 3,633,957.
Brooks, Edward A.: *See*—
Duckett, John W.; Brooks, Edward A.; and Reynolds, Clarke, 3,705,566.
Brooks, Elwin W.: *See*—
Berger, Richard M.; and Brooks, Elwin W., 3,637,447.
Berger, Richard M.; and Brooks, Elwin W., 3,648,711.
Berger, Richard M.; and Brooks, Elwin W., 3,703,429.
Brooks, Frank W.; and Naismith, Thomas D., to General Motors Corporation. Disc brake with parking brake. 3,670,853, 6-20-72, Cl. 188-72.600.
Brooks, Frank W.; and Gebhart, Norman L., to General Motors Corporation. Disc brake. 3,705,641, 12-12-72, Cl. 188-73.300.
Brooks, Fred A. Baseband pulse code modulation system. 3,674,939, 7-4-72, Cl. 179-15.55r.
Brooks, Gene A., to Monsanto Company. Traffic machine for carpets. 3,641,807, 2-15-72, Cl. 73-7.
Brooks, Geoffrey N.; and Crompton, John L. F., to Dunlop Company Limited, The. Assemblies of tubular members. 3,702,199, 11-7-72, Cl. 285-55.000.
Brooks, George D. S. Golf game apparatus. 3,684,293, 8-15-72, Cl. 273-176.00f.
Brooks, Glen L.: *See*—
Williams, George L.; Brooks, Glen L.; and Eaton, Earl M., 3,658,201.
Brooks, H Craig: *See*—
Glorioso, Robert M.; and Brooks, H Craig, 3,638,113.
Brooks, Herbert B. Digital control simulator. 3,638,007, 1-25-72, Cl. 235-184.
Brooks, Herman H., to Sundstrand Data Control, Inc. Demodulator for angularly related signals. 3,639,850, 2-1-72, Cl. 329-50.
Brooks, Howard Larry, to Stauffer-Wacker Silicone Corporation. Silicone release emulsion. 3,634,285, 1-11-72, Cl. 252-312.
Brooks, Howard Larry, to Stauffer-Wacker Silicone Corporation. Mold release compositions from mixtures of silicone resins and siloxane fluids. 3,684,756, 8-15-72, Cl. 260-29.1si.
Brooks, James; Drummond, Ralph E.; Heinz, Frank J.; and Chambers, William W., to Robertshaw Controls Company. Thermostat set. 3,671,762, 6-20-72, Cl. 307-117.000.
Brooks, James N.; and Chambers, William W., to Robertshaw Controls Company. Temperature control apparatus having cooling operator separate from sensing bridge. 3,633,657, 1-11-72, Cl. 165-26.
Brooks, James R.: *See*—
Harcourt, David N.; and Brooks, James R., 3,655,651.
Brooks, Jeffrey N.: *See*—
Lee, Tsze K.; Brooks, Jeffrey N.; and Logan, Ralph, 3,633,205.
Brooks, Joseph: *See*—
Jamaica, Julius Orban; and Brooks, Joseph, 3,681,237.
Brooks, Joseph F.; and Schaefer, Harold W., to National Union Electric Corporation. Pulley construction. 3,682,010, 8-8-72, Cl. 74-230.010.
Brooks, Kenneth: *See*—
Sistare, Vann M.; and Brooks, Kenneth, 3,642,217.
Brooks, Kenneth, to Celanese Corporation. Traverse cam declutching device for yarn take-up apparatus. 3,680,800, 8-1-72, Cl. 242-43.000.
Brooks, Kenneth A.; Johnson, Lawrence L.; and Mathewson, James A., to International Business Machines Corporation. Actuator for elastic diaphragm switch keyboard. 3,693,775, 9-26-72, Cl. 197-98.000.
Brooks, Kenneth G. Dual compartment paper safe. 3,637,279, 1-25-72, Cl. 312-303.
Brooks, Leslie John: *See*—
Poucher, Michael; Brooks, Leslie John; and Morris, Geoffrey William, 3,662,556.
Brooks, Louis E.: *See*—
Kauer, George C., Jr; and Brooks, Louis E., 3,659,399.
Brooks, Marion E., to Bickerstaff Clay Products Company, Inc. Apparatus for handling aligned rows of objects. 3,647,093, 3-7-72, Cl. 214-8.5.
Brooks, Martin Frederick; and Kerrigan, Vincent, to Imperial Chemical Industries Limited. Stable liquid diphenylmethane diisocyanates. 3,641,093, 2-8-72, Cl. 260-453.
Brooks, Martin Frederick; and Kerrigan, Vincent, to Imperial Chemical Industries Limited. Preparation of liquid diphenylmethane diisocyanate compositions. 3,674,828, 7-4-72, Cl. 260-453.00p.
Brooks, Maurice E.: *See*—
Riegel, Herbert; Schindler, Harvey D.; Sze, Morgan C.; and Brooks, Maurice E., 3,637,895.
Brooks, Otis; and Moltz, Bernard S. Space saver drawing holder. 3,635,352, 1-18-72, Cl. 211-47.
Brooks Products, Inc.: *See*—
Budlong, Oscar A., 3,660,956.
Robbins, James L., 3,671,156.
Brooks, Ray G., to Product Promotions, Inc. Fish attracting device. 3,680,245, 8-1-72, Cl. 43-17.000.
Brooks Research and Manufacturing Inc.: *See*—
Wickersham, Price D., 3,654,585.
Brooks, Robert E.; Ewart, John M.; and Randall, James E., to Ranco Incorporated. Sensing means for air conditioning systems and the like. 3,631,687, 1-4-72, Cl. 62-227.
Brooks, Robert E., to TRW Inc. Method of and apparatus for holographically contour mapping of distant objects. 3,633,987, 1-11-72, Cl. 350-3.5.
Brooks, Robert E., to TRW Inc. Recording microholograms of magnified virtual images. 3,644,012, 2-22-72, Cl. 350-3.5.
Brooks, Robert E., to TRW Inc. Holographic system without laser speckle. 3,659,914, 5-2-72, Cl. 350-3.500.
Brooks, Robert E.; and Heflinger, Lee O., to TRW Inc. Optical system for identifying pulses. 3,668,405, 6-6-72, Cl. 250-216.000.
Brooks, Robert E., to TRW Inc. Holographic real-time interferometry with a reconstructed reference beam. 3,672,776, 6-27-72, Cl. 356-106.000.
Brooks, Robert E., to Ranco Incorporated. Temperature sensing device for room air tempering apparatus. 3,678,434, 7-18-72, Cl. 338-196.000.
Brooks, Robert E., to TRW Inc. Holographic correlator with a folded path acoustic cell input. 3,694,657, 9-26-72, Cl. 250-216.000.
Brooks, Robert Lee, to RCA Corporation. Method for monitoring the capacitance of a capacitor while adjusting its capacitance. 3,665,570, 5-30-72, Cl. 29-25.420.
Brooks, Rodney A.: *See*—
Dammig, Alvin H., Jr.; Sherburne, Arthur E.; and Brooks, Rodney A., 3,639,835.
Brooks, Rodney A.; and Orlando, Vincent A., to General Motors Corporation. Acceleration sensor. 3,678,763, 7-25-72, Cl. 73-514.000.
Brooks, Sheldon C., to Tri-State Displays, Inc. Sectional display for samples of sheet material. 3,642,144, 2-15-72, Cl. 211-45.
Brooks, Stanley: *See*—
Green, Joseph; and Brooks, Stanley, 3,654,366.
Brooks, Stanley H. W.; and Raddin, Harry A., to Hofft, Miller, Inc. Fiberboard produced from wood particles having a 5-25% moisture content prior to steaming and mechanical reduction in the formation process. 3,668,286, 6-6-72, Cl. 264-26.000.
Brooks, Warren B.; Dean, James T.; Manning, William F.; Rupp, Lewis A.; and Talley, William A., Jr., to Mobil Oil Corporation. Underwater production and storage system. 3,682,242, 8-8-72, Cl. 166-.500.
Brooks, Wilbur G. Golf club cleaner. 3,704,475, 12-5-72, Cl. 15-21.00e.
Brooks, William R., to Insta-Foam Products, Inc. Foam dispenser. 3,633,795, 1-11-72, Cl. 222-134.
Brooks, William Thomas. Non-voltage sensitive indicator light. 3,665,442, 5-23-72, Cl. 340-248.00r.
Brooks-Smith, Derryk: *See*—
Charkey, Allen; and Brooks-Smith, Derryk, 3,652,338.
Brookshire, Harry A.: *See*—
Bridenstine, Orville J.; Shutt, Melvin S.; and Brookshire, Harry A., 3,672,530.
Broom and Wade Limited: *See*—
Hall, Raymond John; and Webb, Derek James, 3,635,605.
Broom, Robert F., to Amforge, Inc. Method of molding electrodes. 3,650,736, 3-21-72, Cl. 75-200.
Broom, Ronald Francis Johnston, to Institut fur Angewandte Physik der Universitat Bern. Method of modulating a laser beam and related apparatus. 3,663,897, 5-16-72, Cl. 332-7.51.
Broome, Arthur William James: *See*—
Watchorn, Noel; and Broome, Arthur William James, 3,642,488.
Broome, Barry Glenn: *See*—
Maure, Douglas Raymond; and Broome, Barry Glenn, 3,676,864.
Broome, Joseph Wesley: *See*—

Harwick, Warren J.; and Broome, Joseph Wesley, 3,650,216.
Broome, Marshall B.; and Burress, William W., to Atlantic Richfield Company. Digital waveform generator with adjustable time shift and automatic phase control. 3,679,971, 7-25-72, Cl. 324-.50b.
Broomfield, Robert Walter: *See—*
Wilson, Martin Norman; Smith, Peter Faraday; Walters, Colin Russell; Lewin, John David; Broomfield, Robert Walter; and Graham, Robert Leslie, 3,662,093.
Brooshooft, Thomas: *See—*
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Brophy, Jere Hall: *See—*
Hayden, Howard Wayne, Jr.; Gibson, Robert Cameron; and Brophy, Jere Hall, 3,689,325.
Brorein, William J.; and Polizzano, Fred F. Method of making metallic sheathed cables with foam cellular polyolefin insulation and method of making. 3,693,250, 9-26-72, Cl. 29-624.000.
Brorson, Donald L.; and Magnuson, Raymond A., to Beatrice Food Co. Mounting arrangement for pivotal space divider. 3,677,322, 7-18-72, Cl. 160-135.000.
Brorson, Donald L.; and Magnuson, Raymond A., to Beatrice Foods Co. Molded plastic garment hanger. 3,679,100, 7-25-72, Cl. 223-88.000.
Broser, Richard, to Accum-Matic Systems, Inc. Automatic accumulating work piece lift and carry transfer mechanism. 3,687,275, 8-29-72, Cl. 198-219.000.
Brosilow, Jerry; and Levitt, Jack, to World Battery Corporation. Battery cover. 3,653,974, 4-4-72, Cl. 136-170.
Broski, Thomas J., to General Electric Company. Regulator with optical feedback arrangement wherein both input and output voltage are sensed. 3,646,439, 2-29-72, Cl. 323-21.
Broslaw, Edwin, to Crest-Foam Corporation. Apparatus for locating the geometric center of a workpiece. 3,700,901, 10-24-72, Cl. 250-201.000.
Bross, Helmut. Writing tool. 3,637,316, 1-25-72, Cl. 401-104.
Bross, Helmut. Moving toy. 3,645,039, 2-29-72, Cl. 46-206.
Bross, Helmut, to Ritter, J. Jacob, Firma KG. Control mechanism. 3,653,777, 4-4-72, Cl. 401-110.
Bross, William T., to Liebel-Flarsheim Company; division of Sybron Corporation. Electro-surgical apparatus. 3,658,067, 4-25-72, Cl. 128-303.14.
Brossar, Bernard Pierre: *See—*
Boichard, Jacques; Brossar, Bernard Pierre; Duroux, Jacques Marius; and Janin, Raymond Marc Clement, 3,651,135.
Brossard, Andre: *See—*
Bauer, Jean-Michel; and Brossard, Andre, 3,656,721.
Brossard, Bernard: *See—*
Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, 3,660,481.
Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, 3,661,988.
Brossard, Daniel, to Compagnie de Saint-Gobain. Method of and apparatus for the production of fibers from thermoplastic materials, particularly glass fibers. 3,650,716, 3-21-72, Cl. 65-6.
Brosseau, Joseph E., to Brosseau, Joseph E., Co. Thermoresponsive control for electrical heating units. 3,643,197, 2-15-72, Cl. 337-270.
Brosseau, Joseph E., Co.: *See—*
Brosseau, Joseph E., 3,643,197.
Brosseau, Louis Philippe, to Formex Ltd. Plastic plugs for use in concrete forms. 3,643,909, 2-22-72, Cl. 249-41.
Brossi, Arnold; Focella, Antonino; Rachlin, Albert Israel; and Teitel, Sidney, to Hoffmann-La Roche Inc. Substituted phenymalonic acid and phenylalkylmalonic acid esters. 3,636,080, 1-18-72, Cl. 260-473.
Brossi, Arnold; and Pecherer, Benjamin, to Hoffmann-La Roche Inc. Synthesis of substituted dibenzo[d,f]azonines and intermediates. 3,654,343, 4-4-72, Cl. 260-473.
Brossi, Arnold; and Teitel, Sidney, to Hoffmann-La Roche Inc. Process for 2,4-diamino-5-(3, 5-dimethoxy-4-hydroxybenzyl) pyrimidine. 3,684,810, 8-15-72, Cl. 260-256.40n.
Brother Industries Ltd.: *See—*
Hishida, Yukio; Kato, Takami; and Kurachi, Hisao, 3,638,775.
Hishida, Yukio; Kato, Takami; Hirata, Takashi; and Kurachi, Hisao, 3,642,110.
Brother Kogyo Kabushiki Kaisha: *See—*
Hishida, Yukio; Nakai, Toshio; and Kuzuya, Susumu, 3,706,366.
Iwashima, Hideo; and Fukao, Satoshi, 3,678,424.
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Makihara, Tsutomu; and Yoneji, Satoshige, 3,688,714.
Sakawa, Katuaki; and Kozawa, Tetuo, 3,705,561.
Torii, Masa-u, 3,696,768.
Yamashita, Chikao, 3,675,603.
Brothers, Doris Le Roy: *See—*
Kircher, Charles E., Jr.; McAlister, Donald R.; and Brothers, Doris Le Roy, 3,691,240.
Brothers' Metal Products, Inc.: *See—*
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Brotherton, David H.: *See—*
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Brotherton, Mary K.: *See—*
Bahner, Carl T.; Brotherton, David H.; and Brotherton, Mary K., 3,637,677.
Brotherton, Thomas K.; Lynn, John W.; and Knopf, Robert J., to Union Carbide Corporation. Polyurethane products. 3,677,983, 7-18-72, Cl. 260-2.5at.
Brotherton, Thomas Kemper: *See—*
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Brotman, Harry D.: *See—*
Eads, Charles L.; and Brotman, Harry D., 3,695,068.
Brotz, Walter; and Dallmann, Bruno, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Lubricant compositions for masses of polyvinyl chloride and process for making. 3,640,828, 2-8-72, Cl. 252-17.
Brotzmann, Karl: *See—*
Knuppel, Helmut; Brotzmann, Karl; Fassbinder, Hans-Georg; Savard, Guy; and Lee, Robert, 3,706,549.
Brouard, Claude Marie Henri Emile: *See—*
Le Roy, Jean Marie Louis; and Brouard, Claude Marie Henri Emile, 3,644,329.
Leroy, Jean Marie Louis; and Brouard, Claude Marie Henri Emile, 3,663,530.
Brouard, Dominique. Apparatus and method for forming a sound hologram. 3,683,323, 8-8-72, Cl. 340-3.00r.
Brouchu, Rene Robert; and Taylor, Lytton, to American Cyanamid Company. Process for bonding two solid articles together in which a catalyzed unsaturated polyester resin is used in combination with a promoted unsaturated polyester resin. 3,697,353, 10-10-7, Cl. 156-310.000.
Brougham, George D. Archery bow with arrow support structure. 3,698,375, 10-17-72, Cl. 124-24.000.
Broughton, Donald B.: *See—*
Stine, Laurence O.; and Broughton, Donald B., 3,636,121.
Stine, Laurence O.; and Broughton, Donald B., 3,707,550.
Uitti, Kenneth D.; and Broughton, Donald B., 3,632,315.
Broughton, Donald B., to Universal Oil Products Company. Combination isomerization and aromatic separation process. 3,636,180, 1-18-72, Cl. 260-668.
Broughton, Donald B., to Universal Oil Products Company. Dual temperature fixed carbon bed heavy water concentration process. 3,700,417, 10-24-72, Cl. 23-312.00w.
Broughton, Eugene F. Pack of game playing ticket. 3,655,198, 4-11-72, Cl. 273-139.
Broughton, James A., to Brown and Williamson Tobacco Corporation. Lightly prized tobacco. 3,693,629, 9-26-72, Cl. 131-5.000.
Broughton, Jesse I.: *See—*
Ernest, Dale S., 3,640,266.
Broughton, Terence D.: *See—*
Stoddard, Ivan; and Broughton, Terence D., 3,705,433.
Brouilliard, Robert E.; Coughlin, Leonard J.; and Winfrey, Vernon L., to Penick & Ford Limited. Benzyl starch emulsion coating compositions. 3,672,922, 6-27-72, Cl. 106-211.000.
Broumand, Hormoz K.: *See—*
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Broun, Thorowgood T., Jr., to PPG Industries, Inc. Montmorillonite clays as aids in steam distillation of tetraalkyl lead. 3,707,443, 12-26-72, Cl. 203-50.000.
Brounn, Morrison John, to Otis Elevator Company. Elevator cab structure. 3,631,942, 1-4-72, Cl. 187-1.
Brouns, Jan Willem: *See—*
Kuiper, Adrianus; Brouns, Jan Willem; and Visser, Bauke, 3,694,688.
Broussard, Edwin C. Turn around pan shield for automatic pin setters. 3,701,530, 10-31-72, Cl. 273-43.00r.
Broussard, Evest A., III: *See—*
Larson, Alworth D.; Braymer, Hugh D.; and Broussard, Evest A., III, 3,692,631.
Broussard, Paul Daniel. Electromagnetic audio pickup for stringed musical instruments, with volume control means, and suitable for use with an type strings. 3,668,295, 6-6-72, Cl. 84-1.15.
Broussard, Staffas, Sr. Hair comb with adjustably tapered teeth. 3,638,665, 2-1-72, Cl. 132-129.
Broussaud, George G. T.; and Spitz, Erich, to CSF-Thomson. Bandwidth compandor system. 3,634,693, 1-11-72, Cl. 250-216.
Broussaud, Georges; and Wang, Pierre L., to CSF-Thompson. Holographic recording system with a separately recorded reference beam. 3,633,986, 1-11-72, Cl. 350-3.5.
Broussaud, Georges; and Tinet, Claude, to CSF-Thomson. Radiometer systems. 3,638,494, 2-1-72, Cl. 73-355.
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Brower, David F., to Gulf Oil Corporation. Electromagnetic forming apparatus. 3,654,787, 4-11-72, Cl. 72-56.
Brower, James P., to Richards Manufacturing Company. Over-a-door support for cervical traction apparatus. 3,695,256, 10-3-72, Cl. 128-75.000.
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Brown, Anthony R., to Racal-Mobilcal Limited. Electrical transformers. 3,675,176, 7-4-72, Cl. 336-182.000.
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Brown, Archer W.; Montgomery, James L.; Wienke, Charles W.; Roskowinski, Alfons; and Braddock, William A., to American Hoist & Derrick Company. Hydraulic extensible boom structure. 3,658,189, 4-25-72, Cl. 212-55.
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Brown, Arnold E., to Kusan, Inc. Endless-track-supported vehicle. 3,695,736, 10-3-72, Cl. 305-18.000.
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Brown, Buck C., to Control Concepts Corporation. Vertical locking circuit. 3,678,199, 7-18-72, Cl. 178-69.5tv.
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Brown, Cicero C.; and Cochran, Chudleigh B., said Cochran assor. to Brown Oil Tools, Inc. Tool string assembly for use in wells. 3,633,670, 1-11-72, Cl. 166-125.
Brown, Cicero C. Well drilling tool. 3,633,690, 1-11-72, Cl. 175-285.
Brown, Cicero C. Latch assembly for well tools. 3,638,988, 2-1-72, Cl. 294-86.18.
Brown, Cicero C. Apparatus for rotary drilling of wells using casing as the drill pipe. 3,656,564, 4-18-72, Cl. 175-228.
Brown, Cicero C. Drilling unit for rotary drilling of wells. 3,661,218, 5-9-72, Cl. 175-107.
Brown, Cicero C. Well packer. 3,670,815, 6-20-72, Cl. 166-136.000.
Brown, Cicero C. Pipe handling system for use in well drilling. 3,706,347, 12-19-72, Cl. 175-85.000.
Brown, Cicero K. Casing centralizer and mandrel for use in welding large diameter casing. 3,653,573, 4-4-72, Cl. 228-5.
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Brown, Clyde Owen, to United Aircraft Corporation. Diffraction coupled laser oscillator focusing system. 3,681,709, 8-1-72, Cl. 331-94.500.
Brown, Colin V., to USM Corporation. Wiper stop for shoe lasting machine. 3,657,754, 4-25-72, Cl. 12-12.4.
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Brown, Donald J., to Morehouse Industries, Inc., mesne. Connection fitting device with clean-out. 3,675,674, 7-11-72, Cl. 137-244.000.
Brown, Donald J., to Morehouse Industries, Inc. Sandmill vessel. 3,685,749, 8-22-72, Cl. 241-65.000.
Brown, Donald W. Conveyor for building materials. 3,687,268, 8-29-72, Cl. 198-85.000.
Brown, Dwight C. Practice bat and ball. 3,635,475, 1-18-72, Cl. 273-26.
Brown, Dwight C. Press-on support for a pallet. 3,641,948, 2-15-72, Cl. 108-51.
Brown, Dwight C. Bag closure. 3,673,640, 7-4-72, Cl. 24-30.50r.
Brown, Dwight C. Rim projector and painting implement container for paint cans. 3,688,943, 9-5-72, Cl. 220-90.000.
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Brown, Earl Franklin; and Kaminski, William, to Bell Telephone Laboratories, Incorporated. Coding of sign information in DPCM systems. 3,689,840, 9-5-72, Cl. 325-38.00b.
Brown, Edgar D., Jr., to General Electric Company. Lubricants containing halogen-substituted organosilicon compounds. 3,639,238, 2-1-72, Cl. 252-49.6.
Brown, Edgar D., Jr.; and Berger, Abe. Silyl organometallocenes useful as antioxidants. 3,649,660, 3-14-72, Cl. 260-429.
Brown, Edgar D., Jr., to General Electric Company. Hydrocarbon or silicone lubricating oil containing dehalogenoethyl substituted organosilicon compounds. 3,694,358, 9-26-72, Cl. 252-49.600.
Brown, Edgar E.; and Boettner, Raymond C., to United Aircraft Corporation. Processing of nickel-base alloys for improved fatigue properties. 3,660,177, 5-2-72, Cl. 148-11.5.
Brown, Edward L., to Armco Steel Corporation. Bolt. 3,640,326, 2-8-72, Cl. 151-37.
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Brown, Elvin E., to Collins Radio Company. Pin and socket contact electrical interconnect system. 3,663,931, 5-16-72, Cl. 339-218.00r.
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Brown, Fred; and Obermeyer, James Henry, to Union Tank Car Company. Latching mechanism. 3,647,251, 3-7-72, Cl. 292-111.
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Brown, Fred A., III; and Le Mere, Roger, to Cluett, Peabody & Co., Inc. Stay fusing machine. 3,697,354, 10-10-72, Cl. 156-380.000.
Brown, Fred P., Jr.; and Rohdin, Howard A., to Packaging Industries, Inc. Re-entrant forming apparatus. 3,640,668, 2-8-72, Cl. 18-35.
Brown, Fred P., Jr., to Packaging Industries, Inc. Apparatus for forming containers. 3,647,335, 3-7-72, Cl. 425-143.
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Brown, Frederick G., to Lever Brothers Company. Dyeing human hair with a peroxy compound and a reactive dyestuff. 3,679,347, 7-25-72, Cl. 8-10.100.
Brown, Frederick L., to Dow Chemical Company, The. Condensation resins from aldehydes, polynuclear catechol and resorcinol. 3,704,200, 11-28-72, Cl. 161-262.000.

Brown, Gaylor W., to Koehring Company. Apparatus for forming protrusions with enlarged head portions in thermoplastic sheet material. 3,669,606, 6-13-72, Cl. 425-398.
Brown, Gaylor W.; Brushaber, Larry; and Brown, Melvin L., to Koehring Company. Apparatus for friction welding synthetic plastic container parts and the like. 3,701,708, 10-31-72, Cl. 156-582.000.
Brown, Gaylord W., to Koehring Company. Apparatus for controlling the sagging of a thermoplastic synthetic plastic web being fed through a thermoforming machine. 3,664,791, 5-23-72, Cl. 18-19.
Brown, Gaylord W.; Russell, Edward J.; Howe, Charles E.; and Schnepp, Bradley A., to Koehring Company. Module thermoforming machine. 3,669,594, 6-13-72, Cl. 425-186.
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Brown, George E., Jr., to Pollutrol Group, The. Saturated aliphatic dicarboxylic acid salts as detergent builders. 3,661,787, 5-9-72, Cl. 252-109.
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Brown, George M.; and Newman, Phyllis L., to Sauna International, Inc. Automatic parachute harness release assembly. 3,632,066, 1-4-72, Cl. 244-151.
Brown, George T., Jr.; and Clark, Donald B., to National Cash Register Company, The. Pressure-sensitive record material. 3,697,323, 10-10-72, Cl. 117-234.000.
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Brown, Harold. Vapor driven motors. 3,659,416, 5-2-72, Cl. 60-25.
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Brown, Harvey A.; and Jones, Robert B., to Minnesota Mining and Manufacturing Company. Imaging apparatus and method. 3,682,549, 8-8-72, Cl. 355-132.000.
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Brown, Henry; and Tomaszewski, Thaddeus W., to Udylite Corporation, The. Electrodeposited plain bearing liners. 3,658,488, 4-25-72, Cl. 29-195.
Brown, Henry, to Udylite Corporation, The. Electroplating of nickel. 3,663,378, 5-16-72, Cl. 204-49.000.
Brown, Henry, to Udylite Corporation, The. Electrolytic codeposition of polyvinylidene and copolymer particles with copper. 3,676,308, 7-11-72, Cl. 204-16.000.
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Brown, Herbert C. Alkylation with organoboranes. 3,632,823, 1-4-72, Cl. 260-408.
Brown, Herbert C. Stabilized tetrahydrofuran solutions of diborane. 3,634,277, 1-11-72, Cl. 252-188.
Brown, Herbert C. Carbonylation of organoboranes. 3,671,585, 6-20-72, Cl. 260-545.00r.
Brown, Horace D., to Montec Corporation. Ambient compensated time delay switch. 3,702,454, 11-7-72, Cl. 337-77.000.
Brown, Howard W.: *See—*
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Brown, Hugh Clifford, to Scovill Manufacturing Company. Pressure regulator. 3,656,497, 4-18-72, Cl. 137-116.500.
Brown International Corporation: *See—*
Bushman, Ronald C.; Rickard, Donn J.; Webb, John D.; Alexander, L. Bruce; and Church, Cleveland B., 3,643,716.
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Brown, Ivan H.: *See—*
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Beckham, Robert R.; Walters, Emmett L.; Brown, Jack G.; De Rose, Kenneth M.; and Ryan, Joseph D., 3,673,981.
Brown, Jack H. Motor vehicle engine winch. 3,652,057, 3-28-72, Cl. 254-139.1.
Brown, Jack S. Brick display unit. 3,659,358, 5-2-72, Cl. 35-53.
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Brown, James D.; and Uraneck, Carl A., to Phillips Petroleum Company. Calcium or magnesium-ketone reaction products as polymerization initiators. 3,644,528, 2-22-72, Cl. 260-591.
Brown, James D.; and Uraneck, Carl A., to Phillips Petroleum Company. Pressure sensitive cohesion. 3,669,798, 6-13-72, Cl. 156-334.000.
Brown, James, Jr.: *See—*
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Brown, James L.; Himebaugh, Donald T.; and Montgomery, James R., to Mallinckrodt Chemical Works. Radiation-shielding receptacle for a bottle for receiving a radioactive eluate. 3,655,985, 4-11-72, Cl. 250-108.
Brown, James Marvin, to American Cyanamid Company. Non-yellowing softening agent for cotton and rayon textiles. 3,679,719, 7-25-72, Cl. 260-400.000.
Brown, James Stuart: *See—*
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Brown, Jerald L.; and Harlan, William O., to Fife Corporation. Method for web guiding of carpet material. 3,688,804, 9-5-72, Cl. 139-1.000.
Brown, Joe R. Well packer. 3,659,647, 5-2-72, Cl. 166-120.
Brown, John. Door closer. 3,656,204, 4-18-72, Cl. 16-52.
Brown, John B.; and Alexander, Raymond L., to Moorfeed Corporation. Feeder for screw blanks and serrated washers. 3,638,260, 2-1-72, Cl. 10-162.
Brown, John Colin: *See—*
Alcock, David Gerald; Brown, John Colin; Piccotti, Enzo; and Iungius, Vorman John, 3,702,248.
Brown, John Colin; and Cheer, Roy Anthony, to Ilford Limited. Development process. 3,677,761, 7-18-72, Cl. 96-66.500.
Brown, John D. Method of using plastic cast. 3,680,548, 8-1-72, Cl. 128-69.000.
Brown, John H., Jr.; and Atkins, Bobby L., to Dow Chemical Company, The. Method of suspending immobilized biological specimens in a transparent gel in a transparent container. 3,638,709, 2-1-72, Cl. 157-57.
Brown, John J., Jr., to Forrest Paschal Machinery Company. Method and apparatus for dehacking brick. 3,669,283, 6-13-72, Cl. 214-8.50c.
Brown, John Johnston; and Hady, Robert Allis, Jr., to American Cyanamid Company. Substituted 7-heterocyclic-7,8-dihydro-6-(hydroxy or methoxy)-6, 14-endo (etheno or ethano) codides and morphides. 3,634,430, 1-11-72, Cl. 260-285.
Brown, John M. Apparatus for blocking fluid flow in a well casing. 3,693,715, 9-26-72, Cl. 166-55.000.
Brown, John P., to United States of America, Air Force. Gel composition and its use as a braking medium. 3,703,942, 11-28-72, Cl. 188-33.000.

Brown, John S., to FMC Corporation. Molding machine with spray defrost. 3,695,895, 10-3-72, Cl. 99-136.000.
Brown, Joseph: *See—*
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Brown, Joseph L.; and Brown, Neil N., to Brown Truck and Trailer Manufacturing Company. Cart structure for dragline systems. 3,693,552, 9-26-72, Cl. 104-172.0bt.
Brown, Joseph M.: *See—*
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Brown, Joseph Patrick: *See—*
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Brown, Joseph Patrick; and Foster, William Rees, to Monsanto Chemicals Limited. Flame-retardant resin compositions. 3,639,302, 2-1-72, Cl. 260-2.5.
Brown, Joseph Patrick, to Monsanto Chemicals Limited. Insecticidal method using 3-methylenedioxy-phenyl substituted rhodanials. 3,697,656, 10-10-72, Cl. 424-270.000.
Brown, Joseph W. Combustion heads. 3,705,690, 12-12-72, Cl. 239-424.500.
Brown, Keith S., to Memorex Corporation. Magnetic tape cartridge. 3,704,841, 12-5-72, Cl. 242-199.000.
Brown, Kenneth G. Wynne; and Day, Keith Julyan. Bolted-up friction joints in structural steel-work. 3,692,341, 9-19-72, Cl. 287-189.36f.
Brown, Kenneth L.: *See—*
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Brown, Kenneth M., to Universal Oil Products Company. Treatment of an aqueous stream containing water-soluble inorganic sulfide compounds. 3,672,836, 6-27-72, Cl. 23-224.000.
Brown, Kevan; and Cavalla, John Frederick, to Wyeth, John, & Brother Limited. Pyrrole lower alkanoic acids and derivatives. 3,644,399, 2-22-72, Cl. 260-326.3.
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Brown, Lloyd H.; and Klemm, Laurence J., to Quaker Oats Company, The. Foundry process using a propoxylated toluene diamine as an extender with a castor oil-aromatic diisocyanate prepolymer. 3,645,942, 2-29-72, Cl. 260-18.
Brown, Lloyd H.; and Watson, David D., to Quaker Oats Company, The. Fiber glass laminates containing furfuryl resin binder. 3,681,286, 8-1-72, Cl. 260-67.0fa.
Brown, Lloyd H.; Dunlop, Andrew P.; and Eftax, Daniel S. P., to Quaker Oats Company, The. Seliceous materials bound with resin containing organosilane coupling agent. 3,681,287, 8-1-72, Cl. 260-67.0fa.
Brown, Lloyd H.; Dunlop, Andrew P.; and Eftax, Daniel S. P., to Quaker Oats Company, The. N,N'-Bis((tri(substituted))silylalkylene)-1,4-xylene$\alpha\sim\alpha$'-diimine. 3,681,420, 8-1-72, Cl. 260-448.80r.
Brown, Lloyd H.; and Watson, David D., to Quaker Oats Company, The. Process for preparing pitch bound aggregate. 3,689,299, 9-5-72, Cl. 106-284.000.
Brown, Lloyd H.; and Stephans, Larry C. Process for producing cores microwave heating. 3,692,085, 9-19-72, Cl. 164-15.000.
Brown, Lloyd H.; and Watson, David D., to Quaker Oats Company, The. Hard pitch binders. 3,702,771, 11-14-72, Cl. 106-55.000.
Brown, Louis Stanislaus; March, Frank Adams; Bishop, Richard Patten; and Gilman, Bruce Calvin, to Ocean Systems, Inc. Oil collection retrieval system. 3,650,406, 3-21-72, Cl. 210-242.
Brown, Lowell N. Material handlers. 3,645,412, 2-29-72, Cl. 214-377.
Brown, Lowell N. Air nozzles. 3,674,214, 7-4-72, Cl. 239-526.000.
Brown, Manuel. Hair prosthesis for a bald head and a method of making it and a method of securing it. 3,654,935, 4-11-72, Cl. 132-5.
Brown, Marion L., Jr.; Green, Albert W.; and Blanton, Elmer L., to Mississippi Chemical Corporation. Process for producing ammonium nitrate-calcium carbonate mixed fertilizer prills and resulting product. 3,647,412, 3-7-72, Cl. 71-59.
Brown, Martin A.; and Stoutenberg, Carl C., to Stanley Works, The. Replacement cartridge for a coilable rule. 3,689,004, 9-5-72, Cl. 242-107.00r.
Brown, Martin J., to Western Electric Company, Incorporated. Method of delineating a selected region on a surface. 3,681,103, 8-1-72, Cl. 117-8.500.
Brown, Martin Kamp, to RCA Corporation. Electron beam tube and method of adjusting the electrode spacing of an electron gun therein. 3,643,299, 2-22-72, Cl. 29-250.16.
Brown, Melancthen Starr; deceased (by Kohn, Gustave K.; administrator), to Chevron Research Company. Sulfonyl and sulfinyl phenyl ureas. 3,707,557, 12-26-72, Cl. 260-553.00a.
Brown, Melancthon S., to Chevron Research Company. N-Polyhalovinylthio ureas. 3,652,630, 3-28-72, Cl. 260-453.
Brown, Melancthon S., to Chevron Research Company. β-Amido vinyl phosphates and their method of preparation. 3,660,429, 5-2-72, Cl. 260-326.5.
Brown, Melancthon S.; and Kohn, Gustave K., to Chevron Research Company. N-substituted aryl carbamates. 3,663,594, 5-16-72, Cl. 260-470.
Brown, Melancthon S., to Chevron Research Company. N-polyhalovinylthiocarboxamides. 3,679,673, 7-25-72, Cl. 260-239.300.
Brown, Melancthon S., to Chevron Research Company. N-Polyhalovinylthioformamides. 3,697,571, 10-10-72, Cl. 260-453.00r.
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Brown, Melvin Henry, to Aluminum Company of America. Method of water purification. 3,674,652, 7-4-72, Cl. 203-11.000.
Brown, Melvin L.: *See—*
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Brown, Omar L.; and Smyth, George F., to Fraze, Ermal C. Pull-tab secured by riveted joint. 3,637,106, 1-25-72, Cl. 220-54.
Brown, Omar L. Fraze, Ermal C. Method of forming a rivet. 3,638,597, 2-1-72, Cl. 113-116.
Brown, Omar L.; and Fraze, Ermal C., said Brown assor. to said Fraze, Ermal C. Easy-open tear strip reinforcing means. 3,664,543, 5-23-72, Cl. 220-54.
Brown, Omar L., to Fraze, Ermal C., mesne. Method of making a riveted jointure. 3,688,385, 9-5-72, Cl. 29-509.000.
Brown, Paul R.; and Cooper, Philip H., to Sherwin-Williams Company, The. Rotogravure printing process. 3,632,367, 1-4-72, Cl. 117-12.
Brown, Perry H.; and Kernodle, Paul C., Jr., to Irrigation and Power Equipment Inc., mesne. Chemical solution spray system for self-propelled sprinkling apparatus. 3,648,930, 3-14-72, Cl. 239-156.
Brown, Perry H.; and Webber, Harold H., to Brunswick Corporation. Method of and apparatus for forming metal fiber textile blend and metal fiber textile product. 3,670,485, 6-20-72, Cl. 57-50.000.
Brown, Perry H.; Tremblay, Maurice H.; and Surprenant, Norman F., to Brunswick Corporation. Metal flocking. 3,697,238, 10-10-72, Cl. 29-191.200.
Brown, Peter Thomas; and Phillips, John Rowland, to Ciba Limited. Plastics materials having electrodeposited metal coatings. 3,661,538, 5-9-72, Cl. 29-195.
Brown, Peter William, to Girling Limited. Disc brakes and mounting structure therefor. 3,682,277, 8-8-72, Cl. 188-73.300.
Brown, Philip; and Hawkins, Peter. Apparatus for producing tufted material. 3,641,955, 2-15-72, Cl. 112-79.
Brown, Philip, to Mintray Limited. Methods of manufacturing garments. 3,694,817, 10-3-72, Cl. 2-243.00r.
Brown, Ralph D., to Westinghouse Electric Corporation. System and method for determining whether drain conduits for draining condensate from the turbine casing are clogged and clearing the conduits if they are. 3,685,292, 8-22-72, Cl. 60-105.000.
Brown, Ray B.; Fluhr, Frederick R.; and Hall, George L., to United States of America, Navy. Laser output attenuator. 3,698,797, 10-17-72, Cl. 350-266.000.
Brown, Rene P.; Allison, Birt, Jr.; and Meek, Paul D., to Cosden Oil & Chemical Company. Heptyl phenol alkylation. 3,639,490, 2-1-72, Cl. 260-624.
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Brown, Richard E.; and Shavel, John, Jr., to Warner-Lambert Company. Substituted benzopyrano (3,4-B) pyridiens and process for their preparation. 3,689,497, 9-5-72, Cl. 260-295.00t.
Brown, Richard H., to Pivot Punch Corporation. Composite plastic punch press stripper. 3,690,205, 9-12-72, Cl. 83-139.000.
Brown, Richard L. Hydraulically-actuatable elevator system. 3,650,356, 3-21-72, Cl. 187-17.
Brown, Richard R., to Sperry Rand Corporation. Parallel bit counter. 3,634,658, 1-11-72, Cl. 235-92.
Brown, Richard W., to Control Data Corporation. Receiver-transmitter apparatus. 3,659,277, 4-25-72, Cl. 340-203.000.
Brown, Robert A., to Eastman Kodak Company. Apparatus for calibrating a volumetric flow metering device. 3,657,919, 4-25-72, Cl. 73-3.
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Brown, Robert E., to United States of America, Navy. Magnetic field gradiometer utilizing a pair of cores driven by a blocking oscillator. 3,649,908, 3-14-72, Cl. 324-43.
Brown, Robert E., to F&M Taco Shell Company. Taco shell cooking machine. 3,680,474, 8-1-72, Cl. 99-353.000.
Brown, Robert F., to Research-Cottrell, Inc. Combustion gas scrubbing system. 3,635,000, 1-18-72, Cl. 55-89.
Brown, Robert F., Jr., to Teledyne Industries-Geotech Division. Recording head driver which avoids saturation. 3,637,951, 1-25-72, Cl. 179-100.2.
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Brown, Robert G. Dextran hydrolizing enzymes. 3,699,002, 10-17-72, Cl. 195-66.
Brown, Robert G., to Iowa State University Research Foundation, Inc. Inertial/doppler-satellite navigation system. 3,702,477, 11-7-72, Cl. 343-112.00c.
Brown, Robert H.; Anderson, William A.; and King, William, to Aluminum Company of America. Anodic aluminum material and articles and composite articles comprising the material. 3,674,448, 7-4-72, Cl. 29-197.500.
Brown, Robert J.: *See—*
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Brown, Robert M., to Brown, Robert M. and Computech, Inc. Marine speedometer and anemometer with digital readout. 3,678,474, 7-18-72, Cl. 340-173.00r.
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Brown, Robert R., to Amerace Esna Corporation. Electrical contact devices for high voltage electrical systems. 3,654,590, 4-4-72, Cl. 339-111.
Brown, Robert S., II, to Federal Screw Works. Form tool holder. 3,668,954, 6-13-72, Cl. 82-36.000.
Brown, Robert T.; Vogler, Don E. E.; and Marsh, Gerald A., to Gray Tool Company. Multi-segment clamp. 3,661,409, 5-9-72, Cl. 285-82.
Brown, Robert Warren, to General Telephone Company of California. Telephone cable restorer system. 3,704,347, 11-28-72, Cl. 179-91.00r.
Brown, Robert William; and Wolf, Dorothy, to Stone Straw Corporation of Canada Limited. Shipper package for drinking straws. 3,642,124, 2-15-72, Cl. 206-45.33.
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Brown, Roger S.; and Rhodes, Philip L., to United States of America, Agriculture. Card cover with fiber-conveying channels. 3,685,100, 8-22-72, Cl. 19-98.000.
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Brown, Sharon D.; D'Ottavio, Eugene D.; Kuzmik, John J.; and Grunwald, John J., to MacDermid, Incorporated. Method of treating plastic substrates and process for plating thereon. 3,682,786, 8-8-72, Cl. 204-30.000.
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Brown, Stephen V.; Mc Donough, Thomas B.; and Shaffer, John W., to Sylvania Electric Products, Inc. Fulminating material application technique. 3,667,992, 6-6-72, Cl. 117-69.000.
Brown, Stephen V., to Sylvania Electric Products, Inc. Photoflash lamp. 3,700,377, 10-24-72, Cl. 431-93.000.
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Brown, Stirling Robert, to International Paper Company, mesne. Adhesively laminated creped tissue product. 3,672,949, 6-27-72, Cl. 161-129.000.
Brown, Stirling Robert; and Lee, Charles A., to International Paper Company, mesne. Adhesively laminated kraft paper product. 3,672,952, 6-27-72, Cl. 161-146.000.
Brown, Stirling Robert, to International Paper Company, mesne. Method for the manufacture of laminated fabrics. 3,673,026, 6-27-72, Cl. 156-164.000.
Brown, Stuart I., Jr. Apparatus for manufacturing biaxially oriented film with dimensional stability. 3,661,482, 5-9-72, Cl. 18-1.
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Brown, Thomas D.; Rushforth, Michael; Dobinson, Bryan; Wilson, Walter; and Winterbottom, Kenneth, to I.W.S. Nominee Company Limited and Ciba-Geigy AG. Treatment of keratinous fibres and fabrics. 3,645,781, 2-29-72, Cl. 117-141.
Brown, Thomas Desmond, to I.W.S. Nominee Company Limited. Textile process. 3,676,057, 7-11-72, Cl. 8-128.000.
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Brown, Thomas W. Rail and brace end coupling. 3,674,243, 7-4-72, Cl. 256-65.000.
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Brown, Verne R., to Environment Metrology Corporation. Electrical shock hazard detection system with station scanning and indicating means. 3,699,432, 10-17-72, Cl. 324-51.000.
Brown, Walter, to Subsea Equipment Associates Limited. Undersea riser structure. 3,696,864, 10-10-72, Cl. 166-.500.
Brown, Walter T.: *See—*
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Brown, Warwick N.; and Robinson, Peter M., to Aeroplane and Motor Aluminum Castings Limited. Soluble metal casting cores comprising a water soluble salt and a synthetic resin. 3,645,491, 2-29-72, Cl. 249-61.
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Brown, William A.; and Drenning, John F., to Miller and Company. Metallurgical material and processes for treating steel therewith. 3,672,871, 6-27-72, Cl. 75-58.000.
Brown, William A.; and Earnest, Eugene P. Pipe perforating machine. 3,678,718, 7-25-72, Cl. 72-71.000.
Brown, William B. Pressure sensitive apparatus. 3,703,782, 11-28-72, Cl. 43-23.000.
Brown, William Brownloe, to Western Electric Company, Incorporated. Methods of and apparatus for continuously reeling strand material. 3,701,491, 10-31-72, Cl. 242-25.00a.
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Brown, William E.; Heitz, Robert G.; and Levine, Charles A., to Dow Chemical Company, The. Solid electrolyte for electrical cells. 3,672,995, 6-27-72, Cl. 136-6.000.
Brown, William E.; Heitz, Robert G.; and Levine, Charles A., to Dow Chemical Company, The. Electrical cell assembly. 3,679,480, 7-25-72, Cl. 136-6.000.
Brown, William E., Jr.; and Dufton, William C., to Frick Company. Vertical drop trimmer saws. 3,682,209, 8-8-72, Cl. 143-41.00c.
Brown, William F.; and Goetchius, Ronald J., to Texaco Inc. Credit card validation system using an opaque card having translucent coded areas. 3,688,088, 8-29-72, Cl. 235-61.12r.
Brown, William H., to Western Union Telegraph Company, The. Communication line relay system. 3,638,075, 1-25-72, Cl. 317-148.5.
Brown, William H. Galvanizing continuous elements with prevention of corrosion of the pan. 3,684,563, 8-15-72, Cl. 117-114.00a.
Brown, William J.: *See—*
Starkman, Jesse H.; and Brown, William J., 3,639,309.
Brown, William L., to Littlefuse, Inc. Fuse holding apparatus. 3,659,252, 4-25-72, Cl. 339-113.
Brown, William L., to Rosemount Engineering Company. Electrical resistance element. 3,694,789, 9-26-72, Cl. 338-238.000.
Brown, William L., IV. Fluid pressure engine. 3,703,848, 11-28-72, Cl. 91-265.000.
Brown, William M. Pivotal locking clasp. 3,647,250, 3-7-72, Cl. 292-67.
Brown, William M., to Chain Lakes Research Corporation. Instrument landing system. 3,662,391, 5-9-72, Cl. 343-112.
Brown, William M., to Ultra Products, Inc. Scaffold. 3,684,058, 8-15-72, Cl. 182-132.000.
Brown, William N.: *See—*
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Brown, William R.: *See—*
Brown, William R.; Bang, Veron E.; and Brown, William R., 3,700,838.
Brown, William R. Venturi device. 3,636,765, 1-25-72, Cl. 73-213.
Brown, William R. Universal proportional differential pressure producing fluid flow device. 3,683,693, 8-15-72, Cl. 73-212.000.
Brown, William R.; Bang, Veron E.; and Brown, William R., to Mallory, P. R., & Co., Inc. Timer utilizing spring clutch. 3,700,838, 10-24-72, Cl. 200-38.00r.
Brown, Yull. Metal detection and alarm systems. 3,697,972, 10-10-72, Cl. 340-258.00r.
Brownawell, Darrell W.: *See—*
Robbins, Max L.; and Brownawell, Darrell W., 3,641,181.
Brownawell, Darrell W.; and Renard, Remi H., to Esso Research and Engineering Company. Refining of used lubricating oils. 3,639,229, 2-1-72, Cl. 208-181.
Brownbill, Thomas Duncan, to Dale, John, Limited. Taper-expanding mandrel. 3,690,141, 9-12-72, Cl. 72-370.000.
Brownbuilt Limited: *See—*
Clempson, Philip George, 3,673,838.
Browne, Frank L.: *See—*
Philibert, Robert A.; and Browne, Frank L., 3,655,907.
Browne, Laurence A. System and apparatus for storing packages. 3,686,804, 8-29-72, Cl. 52-31.000.
Browne, Paul Nolan: *See—*
Borsuk, Michael Howard; and Browne, Paul Nolan, 3,691,486.
Browne, Roger Drury; McCurrich, Laurence Henry; Parkinson, John David; and Heffer, Edward Charles, to Woodrow, Taylor, Construction Limited. Strain gauges. 3,675,474, 7-11-72, Cl. 73-88.00e.
Brownell, James R.: *See—*
Willett, Norman F.; Stout, Perry R.; and Brownell, James R., 3,693,443.
Brownell, Peter, to Fram Corporation. Filter. 3,640,396, 2-8-72, Cl. 210-493.
Browning Arms Company: *See—*
Lawrence, John S., 3,667,770.
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Browning, Charles E., to United States of America, Air Force. Thermally stable heterocyclic anthraquinone polyimides and method for their synthesis. 3,702,318, 11-7-72, Cl. 260-47.0cp.
Browning, Charles E., to United States of America, Air Force. Thermally stable polyimides. 3,705,875, 12-12-72, Cl. 260-63.00n.
Browning, Espey T. Scraping blade attachment for a rake. 3,691,743, 9-19-72, Cl. 56-400.050.
Browning, George William; and Williams, John Lewis. Aperture plate control mechanism for electron microscopes. 3,638,015, 1-25-72, Cl. 250-49.5.
Browning, George William, to Associated Electrical Industries Limited. Film transfer mechanism for electron microscopes. 3,671,742, 6-20-72, Cl. 250-49.0se.
Browning, George William, to Associated Electrical Industries Limited. Viewing screen mechanism for electron microscope. 3,696,245, 10-3-72, Cl. 250-49.50e.
Browning, Gordon D.: *See—*
Day, Alan M.; and Browning, Gordon D., 3,697,289.
Browning, Iben, to Microlens, Inc., mesne. Motion detector. 3,702,937, 11-14-72, Cl. 250-210.000.
Browning, Iben, to Longshots, Inc. Method and apparatus for transmitting information. 3,704,948, 12-5-72, Cl. 355-80.000.
Browning, Stanley Albert Charles; and Williams, Glen, to Canadian Imperial Bank of Commerce. Collapsible hockey goal. 3,698,715, 10-17-72, Cl. 273-127.00b.
Browning, William C.; Perricone, Alphonse C.; and Elting, Katherine Anne C., to Milchem Incorporated. Galactomannan composition and treatment for the prevention of thixotropy destruction of same by ligands. 3,677,961, 7-18-72, Cl. 252-316.000.
Browning, William C.; and Chesser, Billy G., to Milchem Incorporated. Composition and process for cross-linking modified carbohydrates with chrome sulfate and lignin. 3,697,498, 10-10-72, Cl. 260-124.00r.
Browning, William C.; and Chesser, Billy G., to Milchem Incorporated. Drilling fluid composition and process for drilling subterranean wells. 3,699,042, 10-17-72, Cl. 252-8.50c.
Brownlee, John: *See—*
Price, Richard Thompson; Bauer, Stuart Michael; Brownlee, John; and Goberde, Bastiaan Cornelis, 3,655,838.
Brownlee, Thomas Harland; and Matsuda, Ken, to American Cyanamid Company. Formation of visible and/or fluorescent images. 3,683,336, 8-8-72, Cl. 340-173.000.
Brownscombe, Philip J., to Canadian Thermo-Images Ltd., mesne. Apparatus for reproduction machines. 3,632,984, 1-4-72, Cl. 219-469.
Brownscombe, Philip J., to Dietzgen, Eugene, Co. Reeling apparatus with dynamic vibration absorber. 3,667,695, 6-6-72, Cl. 242-55.
Brownstein, Arthur M.; and Kerr, David L., to Sun Oil Company. Catalyst for oxidation of secondary and tertiary alkyl aromatic hydrocarbons. 3,634,328, 1-11-72, Cl. 252-431.00n.
Brownstein, David W. Integrated in-line method of continuously casting metal. 3,703,204, 11-21-72, Cl. 164-87.000.
Brownstein, Henry J., to Hysan Products Company. Treatment device. 3,675,254, 7-11-72, Cl. 4-231.000.
Brownsword, John E., to Goodyear Tire & Rubber Company, The. Soluble cured polyester polyurethanes. 3,632,845, 1-4-72, Cl. 260-75.
Broyde, Barret, to Western Electric Company, Incorporated. Additives to positive photoresists which increase the sensitivity thereof. 3,661,582, 5-9-72, Cl. 96-36.2.
Broyer, Robert, to Regie Nationale des Usines Renault. Automobile bodies. 3,672,718, 6-27-72, Cl. 296-1.00s.
Broyles, Allen R.: *See—*
Cimbalo, Robert N.; and Broyles, Allen R., 3,684,740.
Broyles, William R.; and Search, Robert L., to General Motors Corporation. Method for reducing interlaminate bonding in magnetic cores. 3,686,043, 8-22-72, Cl. 148-112.000.
Brozek, Carl T., to Eastman Kodak Company. Manufacture of extruded superpolyester products. 3,654,231, 4-4-72, Cl. 260-75.
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Bruant, Phillippe: *See—*
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Bruass, Albert, to Spider Staging, Inc. Level winding winch mechanism and heavy-duty drive therefor. 3,690,409, 9-12-72, Cl. 182-142.000.
Brubaker, Burton D.; and Waldman, Nathan, to Dow Chemical Company, The. Foamed clay process. 3,673,290, 6-27-72, Cl. 264-43.000.
Brubaker, Robert F.: *See—*
Fish, Austin D.; Fisher, William G.; and Brubaker, Robert F., 3,663,975.
Brubaker, Weldon L., to Berg Electronics, Inc. Method of manufacture for wire grip terminal. 3,702,104, 11-7-72, Cl. 113-119.000.

Bruce, Harold William; and Sandvoss, Werner E., to Varian Associates. Vacuum coating apparatus having means for positioning one of a plurality of members at a selected location between the substrate and the coating material source. 3,661,759, 5-9-72, Cl. 24-298.000.
Bruce, Joseph A. G.; Levy, Henry M.; and Oborn, Pyliss, to Thorn Electrical Industries Limited. Phosphate and phosphors prepared therefrom. 3,635,660, 1-18-72, Cl. 23-108.
Bruce, Peter. Tug linkage. 3,633,532, 1-11-72, Cl. 114-235.
Bruce, Peter. Anchor-cable systems. 3,685,479, 8-22-72, Cl. 114-206.00r.
Bruce, Peter. Scour control system for submerged structures. 3,686,887, 8-29-72, Cl. 61-63.000.
Bruce Plastics, Inc.: *See—*
Marks, Lou F.; and Szabo, Bela G., 3,656,594.
Bruce, Ralph E. Temperature compensating refrigerant charging device. 3,695,055, 10-3-72, Cl. 62-157.000.
Bruce, Roger K., to Sterigard Company. Apparatus and method for obtaining a predetermined and repeatable fill measure in a bag-in-can dispenser. 3,653,111, 4-4-72, Cl. 29-200.
Bruce, Roger K., to Sterigard Corporation. Bistable safety dispensing valve for fluid dispensers. 3,664,557, 5-23-72, Cl. 222-397.
Bruce, Ross William, Jr., to RCA Corporation. Corona generating circuits for electrophotographic printers cooperatively operating with television receivers. 3,655,912, 4-11-72, Cl. 178-6.6.
Bruch, Charles A., to United States of America, Navy, mesne. Nickel electrodeposition process for improving high temperature ductility. 3,635,801, 1-18-72, Cl. 204-49.
Brucher, Peter, to Borsig Gesellschaft mit beschrankter Haftung. Shaft drive for scrapers. 3,683,713, 8-15-72, Cl. 74-243.00r.
Bruchmann, Hans-Dieter: *See—*
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Bruck, George, to Avco Corporation. High-order mixer and comparator. 3,643,163, 2-15-72, Cl. 325-177.
Bruck, Herbert: *See—*
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Bruck, Robert F. Apparatus for chasing and repairing threads. 3,688,323, 9-5-72, Cl. 10-1.00b.
Bruck, Rolf: *See—*
Eichler, Wolfgang; and Bruck, Rolf, 3,688,738.
Bruckenstein, Stanley; and Miller, Barry, to Bell Telephone Laboratories, Incorporated. Combination current control-voltage control circuit. 3,663,889, 5-16-72, Cl. 330-102.
Brucker, Henry J.: *See—*
Klausmann, Milton H.; and Brucker, Henry J., 3,690,223.
Brucker, Henry J., to Suburban Metal Industries Limited. Decking and shoring beam. 3,680,711, 8-1-72, Cl. 211-105.3.
Brucker, William S., to Black and Decker Manufacturing Company, The. Chuck guard. 3,677,657, 7-18-72, Cl. 408-241.00g.
Bruckert, Eugene J., to Motorola, Inc. Active filter. 3,648,190, 3-7-72, Cl. 330-107.
Bruckmann, Andre: *See—*
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Bruckmann, Paul-Gunther: *See—*
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Bruckner, Horst: *See—*
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Wyatt, Philip J.; Trundle, Albert S.; and Bruckner, Judith B., 3,654,438.
Bruckner, Klaus: *See—*
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Bruckner, Kurt, to Bruckner-Apparatebau Michelstadt GmbH. Treatment of continuous fabric webs. 3,698,024, 10-17-72, Cl. 8-151.000.
Bruckner, Samuel R., to Xetca, Inc. Programmed control system for punching machine. 3,706,249, 12-19-72, Cl. 83-69.000.
Bruckner-Apparatebau Michelstadt GmbH: *See—*
Bruckner, Kurt, 3,698,024.
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Brudenell Corporation, The: *See—*
Sierad, Theodore B., 3,645,777.
Bruder, John F., to United States of America, Navy, mesne. Saturable loop core current source. 3,649,904, 3-14-72, Cl. 323-6.
Bruder, John F., to Quadri Corporation. Read only memory. 3,691,541, 9-12-72, Cl. 340-174.0sp.
Bruder, Karl. Sheet laminating machine for feeding laminated sets to a press roller. 3,671,363, 6-20-72, Cl. 156-556.000.
Bruderlein, Francois T.; and Humber, Leslie G., to Ayerst, McKenna & Harrison Limited. Benzocycloheptaisoquinoline derivatives. 3,657,250, 4-18-72, Cl. 260-286.
Brudermanns, Karola: *See—*
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Brudi Equipment, Inc.: *See—*
Brudi, Ronald A., 3,640,414.
Brudi, Ronald A., to Brudi Equipment, Inc. Push-pull attachment for lift trucks. 3,640,414, 2-8-72, Cl. 214-514.
Brudner, Harvey J., to Westinghouse Learning Corporation. Computer-assisted instruction via video-telephone. 3,654,708, 4-11-72, Cl. 35-9.
Brudy, Otto. Method of fabricating faceted pin bundles for molding central triple reflectors. 3,657,045, 4-18-72, Cl. 156-296.
Brudy, Peter E. Faceted core. 3,649,153, 3-14-72, Cl. 425-469.
Bruelemans, Karel Bernard Marie, to Fabrique National d'Armes de Guerre, Societe Anonyme. Transfer device for rib border knitting machines. 3,633,385, 1-11-72, Cl. 66-148.
Bruelemans, Karel Bernard Marie, to Fabrique Nationale d'Armes de Guerre, Societe Anonyme. Pulling and knocking-over device for two needle bed knitting machines. 3,633,386, 1-11-72, Cl. 66-149.
Bruelemans, Karel Bernard Marie, to Fabrique Nationale d'Armes de Guerre, Societe Anonyme. Device for actuating the narrowing points of two needle bed knitting machines. 3,668,895, 6-13-72, Cl. 66-70.000.
Bruen, Robert W.: *See—*
Grimes, Raymond E.; and Bruen, Robert W., 3,696,002.
Bruene, Warren B., to Collins Radio Company. Equalizer circuit for multistage feedback amplifier. 3,701,034, 10-24-72, Cl. 330-28.000.
Bruengger, Heinrich; and Boragine, Carlo, to Ciba-Geigy AG. Photographic material for the silver dye bleaching process. 3,635,716, 1-18-72, Cl. 96-99.
Bruengger, Heinrich; and Boragine, Carlo, to Ciba Limited. Photographic material for the silver dyestuff bleaching process. 3,647,466, 3-7-72, Cl. 96-99.
Bruening, David J.: *See—*
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Bruer, Dirk; Schaible, Siegried; Wagenblast, Ernst; and Hohlwegler, Heinz, to Maschinenfabrik Fahr Aktiengesellschaft. Vehicle with selective load-height and dumping capabilities. 3,685,674, 8-22-72, Cl. 214-314.000.
Bruestle, Carl O. Wire drawing. 3,670,588, 6-20-72, Cl. 72-289.000.
Brugemann, Hans. Lock with tumbler-safety-slides. 3,653,238, 4-4-72, Cl. 70-252.
Brugess, Colin Michael: *See—*
Feather, Peter; and Brugess, Colin Michael, 3,691,212.
Bruggeman, Frans; and Schmidt, Fernand, to N.V. Bekaert S.A. Cages for rearing animals. 3,690,301, 9-12-72, Cl. 119-18.000.
Brugger, Franz; and Paul, Jurgen, to Daimler-Benz Aktiengesellschaft. Safety circuit for a brake-force control installation intended for vehicles especially for motor vehicles. 3,674,319, 7-4-72, Cl. 303-21.0cg.
Bruglemans, Lucas, to GTE Automatic Electric Laboratories Incorporated. Metering system for tandem switched calls. 3,660,604, 5-2-72, Cl. 179-8.
Brugmans, Johannes Thomas: *See—*
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Bruhn, Hjalmar D.: *See—*
Hoyt, Charles T.; Haun, John W.; Hensel, Dwight L.; Hansen, Clarence M.; Lovely, Walter G.; and Bruhn, Hjalmar D., 3,671,077.
Bruhn, Max R. C., Jr.; and Jagt, James Vander, Jr., to Grand Haven Stamped Products. Gear shift coupling mechanism. 3,657,943, 4-25-72, Cl. 74-524.
Bruhns, Robert. Purple martin bird house. 3,696,792, 10-10-72, Cl. 119-23.000.
Bruhns, Thomas V.: *See—*
Walters, John P.; and Bruhns, Thomas V., 3,653,766.
Bruhwiler, Othmar; and Egloff, Anton, to Fischer, Georg, AG. Shedding motion for a weaving machine. 3,678,967, 7-25-72, Cl. 139-35.000.
Bruhwiler, Othmar, to Fischer, Georg, AG-Brugg. Filling withdrawing carrier for weaving machine. 3,683,971, 8-15-72, Cl. 139-122.00n.
Bruinsma, Norman G., to Gleason Works, The. Method and apparatus for roll-forming or roll-finishing gear pieces. 3,695,078, 10-3-72, Cl. 72-101.000.
Bruk, Boen: *See—*
Olsen, Leif T., 3,671,353.
Olsen, Leif Thorvald, 3,697,361.
Brukovsky, Igor Pavlovich; Yakovlev, Pavel Borisovich; Gutterman, Kirill Davidovich; Perov, Alexandr Vasilievich; Zhukov, Vladimir Fedorovich; Nekrasova, Larisa Petrovna; and Ivanovsky, Jury Dmitrievich, to Moskovsky Energetichesky Institut. Device for autmatically controlling electrical conditions of an electron beam unit. 3,689,798, 9-5-72, Cl. 315-106.000.

Bruley, Maurice George Marie; and Ferret, Pierre, to International Standard Electric Corporation. Automatic moble radio telephone system. 3,707,679, 12-26-72, Cl. 325-5.000.

Brulhet, Paul, to Societe Wendell-Sidelor, Societe Anonyme. Discovery in apparatus for cooling a wall surface. 3,638,929, 2-1-72, Cl. 263-44.

Brumagin, Thomas H.; Dickson, John M.; Northrop, Harley E.; Campbell, Lynn W.; Brown, Stanley H.; and Friesz, Elmo W. Method and apparatus for separating metal from dross. 3,689,049, 9-5-72, Cl. 266-37.000.

Brumbach, Joseph F., to Victor Comptometer Corporation. Communication system having signal storage. 3,636,258, 1-18-72, Cl. 178-6.6.

Brumbaugh, Philip A.; Harrington, Richard H.; Nemier, Stanley E.; and Nielsen, Thomas C., to International Business Machines Corporation. Wire matrix print head. 3,672,482, 6-27-72, Cl. 197-1.00r.

Brumbelow, Joseph S. Remote monitor system. 3,656,132, 4-11-72, Cl. 340-189.

Brumbelow, Joseph S. Non-sparking electrical switch. 3,676,622, 7-11-72, Cl. 200-144.0ap.

Brumett, Billy M.: *See—*
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Brumfield, Richard S., to United States of America, Army. Folded lightweight mask. 3,633,575, 1-11-72, Cl. 128-141.

Brumfield, Walter T., to Square D Company. Connector kit attachable to existing neutral bar assembly. 3,693,137, 9-19-72, Cl. 339-198.00n.

Brumlik, George C. Method of producing a self-gripping fastening filament. 3,655,855, 4-11-72, Cl. 264-147.

Brumlik, George C. Self-gripping fastening device. 3,686,718, 8-29-72, Cl. 24-204.000.

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Brumlik, George C. Construction elements for the assembly of molecular models, toys and the like. 3,706,139, 12-19-72, Cl. 35-18.00a.

Brumm, Richard S., to Grove Valve and Regulator Company. Silent valve. 3,631,891, 1-4-72, Cl. 137-625.3.

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Brumm, Russell E.: *See—*
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Brumme, Fritz. Bottle closure. 3,684,118, 8-15-72, Cl. 215-38.00r.

Brummer, Hans, to Bevange AG. Device for determining the center of gravity and/or the weight of airplanes. 3,638,477, 2-1-72, Cl. 73-65.

Brummer, Hans; and Busch, Karl, to VDO Tachometer Werke Adolf Schindling GmbH. Operation supervision system for airplanes. 3,665,439, 5-23-72, Cl. 340-183.

Brummett, Paul L.; and Isley, Sigmund G., to Amerel Company Inc. Apparatus and method for conveying and sorting non-uniform articles and intra-factory system. 3,690,478, 9-12-72, Cl. 214-16.40r.

Brun, Andre; Orieux, Pierre P.; and Le Therisien, Louis, to Compagnie Francaise des Petroles. Method for laying submarine pipelines. 3,656,310, 4-18-72, Cl. 61-72.3.

Brun, Henri; and Meilleroux, Jean-Louis, to Thomson-CSF. Optical pumping magnetimeters. 3,641,426, 2-8-72, Cl. 324-.5.

Brun, Henri, to Thomson-CSF. Optical pumping magnetometers. 3,652,926, 3-28-72, Cl. 324-.5.

Brun, Henri, to CSF-Compagnie Generale de Telegraphie Sans Fil. Optical resonance cell with means for regulating internal vapor pressure. 3,675,067, 7-4-72, Cl. 313-174.000.

Brun, Henri, to Thomson-CSF. Doppler effect frequency monitoring system. 3,687,517, 8-29-72, Cl. 356-28.000.

Brun Sensor Systems, Inc.: *See—*
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Brunauer, Stephen. Portland cement compositions and method. 3,689,294, 9-5-72, Cl. 106-90.000.

Brundage, Clinton F.: *See—*
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Brundage, Robert Wesley, to Emerson Electric Co. Closed loop-open loop circuit for hydro-static transmissions. 3,680,313, 8-1-72, Cl. 60-53.00r.

Brundage, Robert Wesley, to Emerson Electric Co. Hydraulic pump or motor. 3,680,989, 8-1-72, Cl. 418-71.000.

Brundage, Robert Wesley, to Emerson Electric Co. Variable sealed hydraulic pump or motor. 3,695,791, 10-3-72, Cl. 418-131.000.

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Brundell och Jonsson AB: *See—*
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Puna, Erich, 3,643,711.

Brune, Werner; Schwartz, Gunter; Dull, Ernst Hermann; and Polly, Edgar, to Licentia Patent-Verwaltungs-G.m.b.H. Correcting errors in transmitted binary data. 3,665,393, 5-23-72, Cl. 340-146.1.

Brunell, Albert D.: *See—*
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Brunelle, Lawrence J., to Olin Corporation. Fastener driving tool. 3,659,768, 5-2-72, Cl. 227-10.000.

Brunelle, Reni J.: *See—*
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Brunelle, William; and Cartwright, James W., to Weatherhead Company, The. Method of forming an abrasion resistant hose assembly. 3,707,032, 12-26-72, Cl. 29-460.000.

Bruner, Mates A. Removable watch band. 3,664,559, 5-23-72, Cl. 224-4.

Bruner, Mates A. Removable watch band. 3,695,494, 10-3-72, Cl. 224-4.00e.

Bruner, Mates A. Watchband coupling. 3,705,456, 12-12-72, Cl. 24-265.00b.

Bruner, Peter Martin, to AMP Incorporated. Battery terminal. 3,663,927, 5-16-72, Cl. 339-95.

Bruner, Peter Martin, to AMP Incorporated. Tandem mating receptacles. 3,670,289, 6-13-72, Cl. 339-91.00r.

Bruner, Peter Martin, to AMP Incorporated. Assembly and test device for microelectronic circuit members. 3,678,385, 7-18-72, Cl. 324-158.00f.

Bruner, Peter Martin, to AMP Incorporated. Staked tab terminal. 3,699,505, 10-17-72, Cl. 339-221.00r.

Brunett, Carl J.; and Payne, Donald C., to Picker Corporation, mesne. Scintillation recording device for producing both black and white and multi-color photographic records. 3,683,184, 8-8-72, Cl. 250-71.50s.

Brunett, Peter Frank, to Burroughs Corporation. Thin conductive plate locating system for a punch press. 3,667,334, 6-6-72, Cl. 83-362.000.

Brunetti, Brunette; and Pini, Emilio, to Laboratori farmaco-biologici Ellem S.p.A. Thymus extract having a therapeutic action. 3,657,417, 4-18-72, Cl. 424-95.

Brungraber, Louis E.; and Rudin, Walter, to Bloom Engineering Company, Inc. Protective refractory member. 3,647,194, 3-7-72, Cl. 263-6.

Brungs, Charles A.: *See—*
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Sabatelli, Philip M.; Loder, Edwin R.; Brungs, Charles A.; and Sarge, Carmen R., 3,671,440.
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Brungsberg, Heinrich-Josef, to Brown, Boveri & Cie Aktiengesellschaft. Noise suppressing AC phase control system. 3,668,434, 6-6-72, Cl. 307-257.000.

Brunhorn, Konrad; and Groschel, Heinz, to Brinkmann, Martin, Aktiengesellschaft. Method and apparatus for segregating strands of tobacco. 3,707,153, 12-26-72, Cl. 131-22.00a.

Brunhuber, Charles. Garment shoulder saver attachment for wire garment hangers. 3,680,748, 8-1-72, Cl. 223-98.000.

Brunialti, Bruno; and Zaffignani, Giovanni, to Olivetti, Ing., C., & C., S.p.A. Data transmission by teleprinter. 3,701,841, 10-31-72, Cl. 178-4.10b.

Bruniaux, Bernard Jean Pierre Louis Lucien; and Le Corre, Roger Jean, to Etat Francais-Delegation Ministerielle pour l'Armement. Hulls of the ships and their methods of construction. 3,670,683, 6-20-72, Cl. 114-65.00r.

Brunie, Jean Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, to Rhone-Poulenc S.A. Process for preparing aromatic aldehydes and the corresponding alcohols. 3,658,875, 4-25-72, Cl. 260-465.

Brunie, Jean-Claude; Constantini, Michel; Crenne, Noel; and Jouffret, Michel, to Rhone-Poulenc S.A. Process for producing 6-hydroperoxhexanoic acid. 3,681,447, 8-1-72, Cl. 260-533.00c.

Brunie, Jean-Claude; Constantini, Michel; Crenne, Noel; and Jouffret, Michel, to Rhone-Poulenc S.A. Formloxyalnals and process for their preparation. 3,689,534, 9-5-72, Cl. 260-488.00f.

Bruning, Armin M., to Westinghouse Electric Corporation. Furnace and electrode apparatus. 3,686,420, 8-22-72, Cl. 13-15.000.

Bruning, Elmer E.: *See—*
Kirwan, Warren J.; and Bruning, Elmer E., 3,639,941.

Bruning, Paul F., to Electronic Machining Company. Lift structure. 3,653,609, 4-4-72, Cl. 244-13.

Bruninghans Hydraulik GmbH: *See—*
Riedhammer, Josepf; and Glaser, Fritz-Jorg, 3,679,327.

Bruninghaus, Gisela: *See—*
Willich, Jean Herbert; and Bruninghaus, Walter, 3,690,425.

Bruninghaus, Walter: *See—*
Willich, Jean Herbert; and Bruninghaus, Walter, 3,690,425.

Brunkhardt, Frederick W.: *See—*
Meyers, Peter G.; Sweeney, Eric C.; and Brunkhardt, Frederick W., 3,677,422.

Brunmayer-Schilt, Willy: *See—*
Medema, Dirk; Brunmayer-Schilt, Willy; and Van Helden, Robert, 3,647,908.

Brunn, Theodore F., to Schlumberger Technology Corporation. Methods and apparatus for recording well logging data. 3,680,042, 7-25-72, Cl. 340-18.000.
Brunnee, Curt; and Bultemann, Hans-Joachim. Separating device for mixtures of gaseous or vaporous substances, especially for separating a carrier gas from a fraction to be analyzed in a combined gaschromatograph and mass-spectrometer. 3,678,656, 7-25-72, C. 53-197.000.
Brunnee, Kurt; and Kramer, Feodor Otto, to Varian Mat GmbH. Device for controlling the slit width of adjustable slit electrodes in mass spectrometers. 3,655,963, 4-11-72, Cl. 250-41.9.
Brunner, Adolf, to Semperit Osterreichisch-Amerikanische Gummiwerke Aktiengesellschaft. Sandals and methods and machines for their manufacture. 3,698,108, 10-17-72, Cl. 36-11.500.
Brunner, Alfred, to Sulzer Brothers Limited. Method for irradiating foodstuffs and other consumables, pharmaceuticals and the like, and a package for same. 3,670,874, 6-20-72, Cl. 206-46.0pv.
Brunner, Erwin; Platz, Rolf; Taglieber, Kurt; and Weinfurter, Kurt, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acetylene. 3,657,375, 4-18-72, Cl. 260-679.
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Brunner, Frank T.: *See—*
Frain, John J.; and Brunner, Frank T., 3,663,113.
Brunner, Fred William, to Manning's Inc. Method of forming and wrapping foodstuffs. 3,667,971, 6-6-72, Cl. 99-171.00r.
Brunner, Guido, to Shell Oil Company. Submarine dredging apparatus. 3,706,142, 12-19-72, Cl. 37-56.000.
Brunner, Hans A.; and Vogeleer, George B., to Reynolds Metals Company. Apparatus for and method of operating on container constructions. 3,673,834, 7-4-72, Cl. 72-57.000.
Brunner, Josef: *See—*
Suter, Hans; Zutter, Hans; and Brunner, Josef, 3,691,196.
Brunner, Josef Alphons; deceased (by Brunner-Rohrer, Pia Beatrice; Brunner, Josef Moritz Hugo; and Brunner, Urs Viktor Johann; legal heirs), to Spemog AG. Processing and mixing machine. 3,690,622, 9-12-72, Cl. 259-169.000.
Brunner, Josef Moritz Hugo: *See—*
Brunner, Josef Alphons, 3,690,622.
Brunner, Richard; and Mahon, Roger F., to American Standard, Inc. Flow meter device. 3,664,190, 5-23-72, Cl. 73-194.000.
Brunner, Richard G., to Allis-Chalmers Manufacturing Company. Vacuum interrupter shunted with mechanical switch. 3,671,696, 6-20-72, Cl. 200-144.00b.
Brunner, Richard G., to Allis-Chalmers Manufacturing Company. Vacuum switch with power fuse. 3,671,907, 6-20-72, Cl. 337-4.000.
Brunner, Robert H.: *See—*
Kraft, Paul; and Brunner, Robert H., 3,691,127.
Brunner, Robert V.: *See—*
Howell, Richard S.; and Brunner, Robert V., 3,686,676.
Brunner, Rudolf, to Messrs. Heilmeier & Weinlein. Radial piston pump. 3,667,868, 6-6-72, Cl. 417-273.000.
Brunner, Urs Viktor Johann: *See—*
Brunner, Josef Alphons, 3,690,622.
Brunner, Walter H.: *See—*
Bil, Milos S.; and Brunner, Walter H., 3,642,423.
Halasz, Alexander; Bil, Milos S.; and Brunner, Walter H., 3,634,478.
Brunner-Rohrer, Pia Beatrice: *See—*
Brunner, Josef Alphons, 3,690,622.
Brunnock, John Vincent; deceased (by Brunnock, Pamela Mary; legal representative); and Luke, Leonard Arthur, to British Petroleum Company Limited, The. Discovery in separation of hydrocarbons. 3,654,145, 4-4-72, Cl. 208-310.
Brunnock, Pamela Mary: *See—*
Brunnock, John Vincent; and Luke, Leonard Arthur, 3,654,145.
Bruno, Achille: *See—*
Cuffaro, Antonino; Castronovo, Francesco; Bruno, Achille; and Rancati, Gianluigi, 3,670,060.
Bruno, Gerald A.: *See—*
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Haney, Thomas A.; and Bruno, Gerald A., 3,664,964.
Bruno, Joseph S.: *See—*
Harper, Robert J., Jr.; Bruno, Joseph S.; and Gautreaux, Gloria A., 3,676,052.
Bruno, Joseph S.; Harper, Robert J., Jr.; and Reid, John D., to United States of America, Agriculture. Imine-terminated polymers improve cotton durable press products. 3,639,097, 2-1-72, Cl. 8-116.2.
Bruno, Loeb. Wrist watch with changeable case. 3,695,031, 10-3-72, Cl. 58-88.00r.
Bruno, Maris; and Giafranco, Maris. Thrust bearings. 3,652,140, 3-28-72, Cl. 308-219.
Bruno Vogel: *See—*
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Brunold, Andreas: *See—*
Beck, Fritz; Himmele, Walter; Haufe, Juergen; and Brunold, Andreas, 3,652,430.
Brunot, William Turner: *See—*
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Brunotte, Heinz: *See—*
Greim, Walter; and Brunotte, Heinz, 3,684,323.
Brunotte, Helen, nee Vok Kap-Herr: *See—*
Greim, Walter; and Brunotte, Heinz, 3,684,323.
Bruns, Paul-Heinz, to Steinkohlen-Elektrizitat Aktiengesellschaft. Starting system for a gas-turbine installation. 3,704,586, 12-5-72, Cl. 60-39.18b.
Brunsing, Jon P.: *See—*
Brunsing, Rex L.; and Brunsing, Jon P., 3,658,301.
Brunsing, Rex L.; and Brunsing, Jon P. Apparatus for preparing a dry powder potato mix. 3,658,301, 4-25-72, Cl. 259-4.
Brunsting, Edwin L.: *See—*
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Brunswick Corporation: *See—*
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Berry, Foster W., 3,704,016.
Brown, Perry H.; and Webber, Harold H., 3,670,485.
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Cole, William J.; and Rytina, Anton W., 3,646,909.
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Conklin, Robert M.; and Rogers, Albert P. (said Conklin and said Rogers assors. to), 3,638,688.
Conklin, Robert M., 3,690,675.
Cornell, William D.; Schankler, Martin M.; and Kenrick, Charles R., 3,643,959.
Cornell, William D., 3,645,528.
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Gautraud, Michael G.; and Sanders, James W., 3,655,202.
Gretsky, Anthony J., 3,664,392.
Gretzky, Anthony J., 3,655,203.
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Murphy, Patrick J.; and Thompson, Robert C., 3,662,258.
Nunes, John; and Martin, Albert D., 3,698,963.
O'Connor, Thomas W., 3,652,089.
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Reynolds, Eugene E., 3,649,015.
Roberts, John A.; and Surprenant, Norman F., 3,645,298.
Roberts, John A.; and King, Alwyn H., 3,678,564.
Roberts, John A.; and Roberts, Peter R., 3,698,863.
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Sanders, James W., 3,633,007.
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Schmiedel, Robert C., 3,641,965.
Stein, Alex H.; and Coder, William D., Jr., 3,670,049.
Stout, Thomas C.; and Kaiser, Andrew J., 3,705,022.
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Torresen, Robert; and Grosvenor, Herbert D., 3,643,945.
Walker, Jerome F., 3,700,236.
Webber, Harold H.; and Riordan, Pauline F., 3,699,590.
Brunswick Corporation, mesne: *See—*
Clark, Raymond C.; and Ziebell, Donn G., 3,679,271.
Clark, Raymond C., 3,702,659.
Brunton, Donald C., to Brun Sensor Systems, Inc. Apparatus and method for eliminating interference errors in dual-beam infrared reflection measurements on a diffusely reflecting surface by geometrical elimination of interference-producing specularly-reflcted radiation components. 3,693,025, 9-19-72, Cl. 250-83.30h.
Brunton, James Charles: *See—*
Phillips, Cyril Howard; Brunton, James Charles; and Pearce, Geoffrey Downing, 3,676,185.
Brurrier, Henry Richard, to Bell Telephone Laboratories, Incorporated. Signal coupling circuit. 3,694,765, 9-26-72, Cl. 330-165.000.
Brusa, Ugo. Control and adjustment assembly for rolling mill cages. 3,686,919, 8-29-72, Cl. 72-249.000.
Brusca, Donald R., to Enzomedic Laboratories, Inc. Nad salts and methods of preparation. 3,700,654, 10-24-72, Cl. 260-211.50r.
Bruschek, Dieter; and Starr, Frank Clyde, Jr., to Du Pont de Nemours, E. I., and Company. Abrasive compositions. 3,650,715, 3-21-72, Cl. 51-298.
Bruschweiler, Fred: *See—*
Pettit, George R.; Houghton, Leonard E.; Knight, John C.; and Bruschweiler, Fred, 3,687,944.

Brusdeylins, Andreas: *See—*
Ahlert, Wilhelm; Bungardt, Walter; Brusdeylins, Andreas; Damm, Paul; and Herget, Camillo, 3,649,390.

Brush Beryllium Company, The: *See—*
Csontos, Louis J.; and Stonehouse, Albert James, 3,694,331.
Walsh, Kenneth A.; and Sandor, Andrew J., 3,642,463.

Brush-A-Matic, Inc.: *See—*
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Brushaber, Larry: *See—*
Brown, Gaylor W.; Brushaber, Larry; and Brown, Melvin L., 3,701,708.

Brusko, Richard S., to Magnaflux Corporation. Developer composition containing solvent removable organic pigment and method of flaw detection. 3,642,654, 2-15-72, Cl. 252-408.

Bruson, Herman A.: *See—*
Hein, Richard W.; and Bruson, Herman A., 3,686,297.

Brust, Bernard; Fryer, Rodney Ian; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Piperidyl and pyridyl compounds. 3,637,675, 1-25-72, Cl. 260-240.

Brust, David Philip; Minsk, Louis Morton; and Abel, Edward Peter. Polymers of N-[tris(hydroxymethyl)methyl] acrylamide. 3,700,635, 10-24-72, Cl. 260-80.30n.

Bruton, Billy R.; and Locke, Joe B., to U.S. Industries, Inc. Safety relief valve. 3,650,288, 3-21-72, Cl. 137-219.

Bruton, Billy R., to U.S. Industries, Inc. Rotary valve with line pressure connected actuator. 3,650,506, 3-21-72, Cl. 251-26.

Bruton, James Isaac: *See—*
Mago, Brij Mohan; and Bruton, James Isaac, 3,690,362.

Bruton, John M., to Eastman Kodak Company. Web or strip material handling apparatus. 3,669,375, 6-13-72, Cl. 242-75.400.

Brutsch, Wilhelm: *See—*
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Bruun, Jean Eskild: *See—*
Muhlemann, Ernst; and Bruun, Jean Eskild, 3,690,219.

Bruyere, Marcel: *See—*
Francois, Martin; Bruyere, Marcel; and Chatelet, Henri, 3,682,506.

Bruzzano, Gennaro J. Recorder and pen assembly therefor. 3,686,680, 8-22-72, Cl. 346-140.000.

Bryan, Darrel L.: *See—*
Dunlap, Dennis L.; and Bryan, Darrel L., 3,669,467.

Bryan, Darrel L.; and Maisch, Larry D., to Pacific Car and Foundry Company. Flexible leap springs for kickers and clamps for log stackers. 3,669,293, 6-13-72, Cl. 214-767.000.

Bryan, Don S.: *See—*
Grotewald, Hans W.; and Bryan, Don S., 3,638,695.

Bryan, Don S. Prepared citrus fruit halves and method of making the same. 3,707,383, 12-26-72, Cl. 99-100.000.

Bryan Donkin Company Limited, The: *See—*
Farrer, Sydney, 3,635,239.

Bryan, George D., Jr., to Reynolds Metals Company. Method and apparatus for dispensing stacked and nested articles. 3,707,245, 12-26-72, Cl. 221-251.000.

Bryan, Graham W.: *See—*
Green, David T.; and Bryan, Graham W., 3,643,851.
Noiles, Douglas G.; and Bryan, Graham W., 3,638,847.
Noiles, Douglas G.; and Bryan, Graham W., 3,665,924.

Bryan, Graham W., to United States Surgical Corporation. Surgical stapler for skin and fascia. 3,662,939, 5-16-72, Cl. 227-19.

Bryan, Graham W.; and Green, David T., to United States Surgical Corporation. Instrument for ligating, suturing and dividing organic tubular structures. 3,675,688, 7-11-72, Cl. 140-93.00d.

Bryan, John, to Pilkington Brothers Limited. Welded double glazing units. 3,690,856, 9-12-72, Cl. 65-287.000.

Bryan, John K. Cooled airfoil. 3,644,059, 2-22-72, Cl. 416-97.

Bryan, John K. Cooled airfoil. 3,644,060, 2-22-72, Cl. 416-97.

Bryan, Leslie Oliver: *See—*
Howe, John Arthur; and Bryan, Leslie Oliver, 3,673,368.

Bryan, Loren A.: *See—*
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Bryan, Roland J., Jr.: *See—*
Smith, Andrew I.; and Bryan, Roland J., Jr., 3,696,078.

Bryan, Roland J., Jr., to Monsanto Company. Flame retardant, antistatic polymers. 3,637,552, 1-25-72, Cl. 260-18.

Bryan, Thomas J.: *See—*
D'Amico, Andre K.; and Bryan, Thomas J., 3,662,856.

Bryan, William Roy, to H.B.P. Manufacturing Incorporated. Roll forming machine. 3,635,638, 1-18-72, Cl. 425-373.

Bryans, David F.: *See—*
Eckman, Raymond L.; and Bryans, David F., 3,682,381.

Bryant, Charles Brate. Method and apparatus for harvesting aquatic vegetation. 3,653,192, 4-4-72, Cl. 56-1.

Bryant, Charles Brate. Aquatic harvesting apparatus with air borne discharge. 3,688,478, 9-5-72, Cl. 56-1.000.

Bryant, Claudis R.: *See—*
Seifer, Paul E.; and Bryant, Claudis R., 3,683,463.

Bryant, Clifford F. Board game apparatus. 3,643,957, 2-22-72, Cl. 273-134.

Bryant, Clifford F., 50% to White, Albert. Educational toy. 3,696,530, 10-10-72, Cl. 35-28.000.

Bryant, David L. Buoyant air-water massage device. 3,636,944, 1-25-72, Cl. 128-24.1.

Bryant, Elba H., to Amos and Smith Hosiery Company. Method of fabricating combination panty hose garment. 3,641,589, 2-15-72, Cl. 2-224.

Bryant, Ellis H., Jr.: *See—*
Smith, Leary W.; and Bryant, Ellis H., Jr., 3,673,344.

Bryant, Ellis H., Jr.; and Smith, Leary W., to Audichron Company, The. Variable multiple periodic and aperiodic announcement system. 3,668,326, 6-6-72, Cl. 179-6.

Bryant, Ellis H., Jr., to Audrichron Company, The. Apparatus for remotely changing the message of an automatic announcing machine. 3,684,834, 8-15-72, Cl. 179-6.00e.

Bryant, Emerson C.: *See—*
Frazier, Larry C.; and Bryant, Emerson C., 3,684,621.

Bryant, Emerson C., to National-Standard Company. Mechanism for effecting movement of a tire building drum deck. 3,637,450, 1-25-72, Cl. 156-415.

Bryant, Ensor Alexander. Vehicle deceleration signalling apparatus. 3,638,181, 1-25-72, Cl. 340-71.

Bryant, Furnie S.: *See—*
Ganong, William L., Jr.; Bryant, Furnie S.; Neill, Henry R.; and Davies, Robert G., 3,648,027.

Bryant, Gerald T.; and Mayfield, James L., to Air Reduction Company, Incorporated. Flame arresting vent valve. 3,635,599, 1-18-72, Cl. 417-53.

Bryant, Gerald T.; Linhardt, Hans D.; and Nichols, Kenneth E., to Airco, Inc. Submerged pump removal system. 3,696,975, 10-10-72, Cl. 222-333.000.

Bryant Grinder Corporation: *See—*
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Bryant, Herbert William, to Bell Telephone Laboratories, Incorporated. Electroacoustic transducer with magnetic transducing element clamping. 3,700,938, 10-24-72, Cl. 310-9.100.

Bryant, Jack A., to Electronics Corporation of America. Burner control system. 3,684,423, 8-15-72, Cl. 431-24.000.

Bryant, James G., to Bryant-Poff, Inc. Bucket elevator with grain cleaner. 3,669,264, 6-13-72, Cl. 209-138.000.

Bryant, John Dennis. Fluid flow system for wells. 3,631,933, 1-4-72, Cl. 175-57.

Bryant, John F.; and Hyde, Will T., Jr., to United States of America, Navy. Method for making an optical filter for a character identification system. 3,656,838, 4-18-72, Cl. 350-162.0sf.

Bryant, Kenneth O., to United States of America, Navy. Programmable 20-bit pseudorandom (PRF) generator. 3,662,386, 5-9-72, Cl. 343-17.1pf.

Bryant, Kenneth Owen; Morrow, William R.; and Logue, Vernon J., to United States of America, Navy. Recursive integrator. 3,680,088, 7-25-72, Cl. 343-5.0dp.

Bryant, Marion B.; and Hunt, Barry R., to United States of America, Navy. Luneberg lens ECM apparatus. 3,680,123, 7-25-72, Cl. 343-113.00r.

Bryant, Michael I.; and Jones, Charles E., to Burlington Industries, Inc. Tire fabric. 3,695,326, 10-3-72, Cl. 152-358.000.

Bryant, Michael I.; and Jones, Charles E., to Burlington Industries, Inc. Method of improving the adhesion of glass cloth to rubber. 3,698,983, 10-17-72, Cl. 156-308.000.

Bryant, Raymond W.; and Engel, Clifford V., said Bryant assor. to Engel, Clifford V. Self-propelled sprinkler system. 3,662,776, 5-16-72, Cl. 137-344.

Bryant, Richard W.: *See—*
Anderson, Stanley R.; Bryant, Richard W.; and Tu, George K., 3,684,897.

Bryant, Richard W.; and Tu, George K., to Cogar Corporation. High-speed sense latch circuit. 3,648,079, 3-7-72, Cl. 307-289.

Bryant, Richard W.; and Tu, George K., to Cogar Corporation. Read/write system and circuit for semiconductor memories. 3,656,118, 4-11-72, Cl. 340-173.

Bryant, Richard W.; and Tu, George K., to Cogar Corporation. Integrated circuit system having single power supply. 3,679,917, 7-25-72, Cl. 307-297.000.

Bryant, Richard W.; and Tu, George K. Sense amplifier/bit driver for semiconductor memories. 3,685,025, 8-15-72, Cl. 340-173.0ff.

Bryant, Stanley Charles: *See—*
Bryant, Stanley Charles; and Mohlhenrich, Kenneth H., 3,654,165.

Bryant, Stanley Charles; and Mohlhenrich, Kenneth H., 50% to Bryant, Stanley Charles and 50% to Lynch, Denis T. Telephone cleaner-sanitizer. 3,654,165, 4-4-72, Cl. 252-90.

Bryant, Thurman E.: *See—*
Reece, Thomas L.; and Bryant, Thurman E., 3,703,465.

Bryant, William W.; and Groff, Richard T., to United States of America, Navy. Gun blast stripper and diffuser. 3,670,622, 6-20-72, Cl. 89-14.00c.

Bryant-Poff, Inc.: *See—*
Bryant, James G., 3,669,264.

Bryce, Clement, to U.S. Philips Corporation. Ferrite materials. 3,660,292, 5-2-72, Cl. 252-62.6.

Bryce, Douglas Maxwell, to Boots Pure Drug Company Limited. Impregnated diaper. 3,707,148, 12-26-72, Cl. 128-284.000.

Bryce-Smith, Derek; and Adcock, Stuart Samuel, to Ethyl Corporation. Process for the oxidation of hydrocarbons. 3,647,715, 3-7-72, Cl. 252-429.
Bryce-Smith, Derek; and Blues, Ernest T. Metals and metal compounds. 3,647,720, 3-7-72, Cl. 252-476.
Bryce-Smith, Derek; and Adcock, Stuart Samuel, to Ethyl Corporation. Process for the oxidation of hydrocarbons. 3,652,668, 3-28-72, Cl. 260-524.
Bryden, Brian Richard, to Northern Electric Company Limited. Subnanosecond pulse generator circuit. 3,699,361, 10-17-72, Cl. 307-273.000.
Bryden, Joseph E., to Raytheon Company. Generator with differential digital-to-analog converter. 3,646,549, 2-29-72, Cl. 340-347.
Bryden, Joseph E.; and Chambers, Derek, to Raytheon Company. Visula display system. 3,697,955, 10-10-72, Cl. 340-172.500.
Bryden, Joseph E., to Raytheon Company. Constant writing rate character generation and display system. 3,702,470, 11-7-72, Cl. 340-324.00a.
Bryer, Jack: *See—*
Woessner, Richard; Bryer, Jack; and Mascio, Dominic, 3,659,525.
Bryer, Philip Stuart, to Xerox Corporation, mesne. Transducer displacement control in movable head type storage disk systems. 3,643,242, 2-15-72, Cl. 340-174.1.
Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindsjo, Olle; Nyholm, Erik; Poijarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, to Outokumpu Oy. Process for removal and recovery of mercury from gases. 3,677,696, 7-18-72, Cl. 23-2.
Bryk, Petri Baldur; Honkasalo, Jorma Bruno; and Malmstrom, Rolf Einar, to Outokumpu Oy. Method of sulphatizing non-ferrous metals in finely ground iron or other ores. 3,681,046, 8-1-72, Cl. 75-1.000.
Brylka, Rudolf; and Kleinwachter, Hans-Jurgen, 50% to Kappers Klimatechnik GmbH & Co., KG and 50% to Fried. Krupp Gesellschaft mit beschrankter Haftung. Blower apparatus for air-supported structures. 3,666,174, 5-30-72, Cl. 237-2.
Brymill Corporation: *See—*
Bryne, Michael D., 3,651,813.
Bryne, Michael D., 3,664,344.
Bryne, Michael D., to Brymill Corporation. Cryosurgical delivery and application of liquefied gas coolant. 3,651,813, 3-28-72, Cl. 128-303.1.
Bryne, Michael D., to Brymill Corporation. Tyned cryosurgical probe. 3,664,344, 5-23-72, Cl. 128-303.100.
Bryner, Ernest J.; and Wolcott, Gard W., to Sigma Engineering Service, Inc. Lead straightening machine. 3,633,634, 1-11-72, Cl. 140-147.
Brynes, Howard. Inflatable and collapsible pylon. 3,707,320, 12-26-72, Cl. 350-97.000.
Brynjegard, Olaf G. Dodecahedron ornament. 3,690,998, 9-12-72, Cl. 161-16.000.
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Bucci, Goffredo. Necktie construction. 3,657,743, 4-25-72, Cl. 2-146.000.
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Buchan, William R.; and Aldrich, Ralph Edward, to Itek Corporation. Variable electro-optic filter and readout apparatus. 3,699,347, 10-17-72, Cl. 250-217.00r.
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Buchanan, John G.: *See—*
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Buchanan, John K., to Motorola, Inc. Interface circuit for coupling bipolar to field effect transistors. 3,676,700, 7-11-72, Cl. 307-205.000.

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Buchanan, Russell A.; and Russell, Charles R., to United States of America, Agriculture. Powdered polysaccharide-reinforced elastomer masterbatches, compounds, and resulting vulcanized rubbers. 3,673,136, 6-27-72, Cl. 260-17.4bb.

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Bucher, Erich; and Maldener, Alfred, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Yarn winding apparatus. 3,659,796, 5-2-72, Cl. 242-18.1.

Bucher, Foster L.: *See—*
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Buchmann, Hans, to Mettler Instrumente A.G. Top loading precision balance having annular weights. 3,700,056, 10-24-72, Cl. 177-237.000.

Buchmann, Paul; and Beringer, Monique, to Solco Basel AG. Dialysis apparatus. 3,672,509, 6-27-72, Cl. 210-321.000.

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Bugg, Charles H., to Machine Products Corporation. Rotary table. 3,653,340, 4-4-72, Cl. 108-139.

Bugg, Kenly C., to Kendick Manufacturing Company. Self-aligning slip ring capsule. 3,652,971, 3-28-72, Cl. 339-8.

Bugianesi, Robert L.: *See—*
Shen, Tsung-Ying; Walford, Gordon L.; Witzel, Bruce E.; and Bugianesi, Robert L., 3,657,430.

Buglewicz, Neal J. Telephone answering device. 3,705,265, 12-5-72, Cl. 179-6.00r.

Buglio, Edward; and Catanzaro, Luigi, to Schick Manufacturing Co., Inc. Clasp construction for barrettes and the like. 3,633,592, 1-11-72, Cl. 132-48.

Buglov, Evgeny Danilovich: *See—*
Dovgalev, Stepan Ilich; Ermolenko, Igor Nikolaevich; Buglov, Evgeny Danilovich; Danilov, Ivan Petrovich; and Longin, Mikail Lvovich, 3,703,438.

Bugmann, Ernst. Antifriction bearing. 3,700,296, 10-24-72, Cl. 308-187.200.

Bugur, Victor: *See—*
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Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., to Scott Paper Company. Method of continuously moving containers through a treatment process. 3,661,282, 5-9-72, Cl. 214-152.

Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C. Apparatus for printing container side walls. 3,682,296, 8-8-72, Cl. 198-210.000.

Buhl, Donald E.; and Schuster, Donald R., to Westinghouse Electric Corporation. Strain relief bushing. 3,634,608, 1-11-72, Cl. 174-153.

Buhl, Hans-Wilhelm, to Daimler-Benz Aktiengesellschaft. Installation for venting the crankcase of an internal combustion engine. 3,662,723, 5-16-72, Cl. 123-119.

Buhle, Emmett L.: *See—*
Buzby, George C., Jr.; Greenspan, George; and Buhle, Emmett L., 3,697,379.

Buhle, Russell C.: *See—*
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Buhler, Allen C.; Engel, Eric; Nelson, John H.; and Amundson, Clyde H., to Morton-Norwich Products, Inc., mesne. Butter flavored food additive concentrate. 3,653,921, 4-4-72, Cl. 99-140.

Buhles, Herman, Jr. Dispensing machine. 3,675,828, 7-11-72, Cl. 222-362.000.

Buhlmann, Walter: *See—*
Hoffmann, Arthur W.; Locuty, Pierre; and Buhlmann, Walter, 3,660,194.

Buhmann, Walter, Dipl. Ing., Elektro-Apparate-Bau GmbH: *See—*
Schlickeiser, Klaus, 3,675,207.

Buhmann, Walter, Dipl.-Ing., Elektro-Apparatebau GmbH: *See—*
Schlickeiser, Klaus, 3,652,996.

Buhne, Klaus, to Muller, Hermann E., Dr., Metallwarenfabrik Bergneustadt GmbH. Dual-stage valve. 3,692,058, 9-19-72, Cl. 137-627.500.

Buhner, William A. Lawn edge trimmer blade. 3,656,554, 4-18-72, Cl. 172-14.

Buhr Machine Tool Company: *See—*
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Gerchow, Wilbur R., 3,673,656.

Buhrer, Carl F., to GTE Laboratories Incorporated. Ferrimagnetic iron garnet having large Faraday effect. 3,654,162, 4-4-72, Cl. 252-62.57.

Buhrer, Carl F., to General Telephone & Electronics Laboratories, Incorporated. Magneto-optical magnetic field polarity sensor. 3,688,282, 8-29-72, Cl. 340-174.0tf.

Buhrmann, Wayne H.; and Fix, Sidney R., to Goodyear Tire & Rubber Company, The. Reinforced hose. 3,682,202, 8-8-72, Cl. 138-126.000.

Bui, Ngoc-Sanh: *See—*
Benmussa, Henri; Bui, Ngoc-Sanh; and Troubac, Gerard, 3,639,682.
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Buijle, Raoul; and Viehe, Heinz G. Process for the preparation of acylated amides. 3,644,374, 2-22-72, Cl. 260-293.88.

Buike, Melvin L.: *See—*
Grazen, Frank S.; Buike, Melvin L.; and Bryzinsky, Frank M., 3,658,751.

Build-All Fabricating, Inc.: *See—*
Carlson, Clarence C.; and Duquaine, Gordon L., 3,707,404.

Builders Sand Company: *See—*
Livingood, Harry Harlan, 3,690,183.

Building Block Modules, Inc.: *See—*
Klett, George G.; and Akerstrom, Gary L., 3,703,058.

Buisker, Raymond A., to Warner Electric Brake & Clutch Company. Magnetic friction clutch-brake unit. 3,674,122, 7-4-72, Cl. 192-113.00a.

Buissiere, Jean; Colobert, Louis; and Montagnon, Paul A. F., to Promoveo. Device for use in the study of chemical and biological reactions and method of making same. 3,690,836, 9-12-72, Cl. 23-253.0tp.

Buissiere, Jean, to Compagnie Generale d'Automatisme. Process for studying the growth and physiology of bacteria and receptacle for carrying out this process. 3,694,320, 9-26-72, Cl. 195-144.000.

Buisson, Francois; and Gresteau, Jean Paul, to Societe Rhodiaceta. Process for producing brilliant sulfonated polyamide-imide fibers and such fibers so produced. 3,673,160, 6-27-72, Cl. 260-78.0tf.

Buisson, Gerard: *See—*
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Buisson, Michel; Repiquet, Gerard; and Granger, Camille, to Naphtachimie. Phosphorus-containing non-inflammable polyurethane foams. 3,637,537, 1-25-72, Cl. 260-2.5.

Buisson, Michel A., to Naphtachimie. Phosphorus-containing polyols and polyurethanes embodying same. 3,668,154, 6-6-72, Cl. 260-2.5.

Buitelaar, Arnold A.: *See—*
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Buiting, Francis P., to Texas Instruments, Incorporated. Motor control system including motor protector and remote sensor for controlling motor operation. 3,636,426, 1-18-72, Cl. 318-471.

Bujnowski, Raymond S.; and Oliver, Charles R., to General Motors Corporation. Pipe retainer. 3,680,818, 8-1-72, Cl. 248-73.000.

Bujor, Eugen: *See—*
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Bukac, Zbynek; and Sebenda, Jan, to Ceskoslovenska akademie ved. Method of preparing colored polyamides. 3,639,360, 2-1-72, Cl. 260-78.

Bukalders, Edwards, to Bukflex Processes Limited. Plastics coated material. 3,667,982, 6-6-72, Cl. 117-10.000.

Bukama GmbH: *See—*
Korth, Jurgen, 3,672,555.

Bukarkin, Boris Antonovich; and Kovalev, Valery Nikolaevich. Load-gripping attachment of lifts. 3,661,416, 5-9-72, Cl. 294-83.

Buker, Donald O.: *See—*
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Buker, Donald O., to Foote Mineral Company. Production of ferrovandium alloys. 3,637,370, 1-25-72, Cl. 75-40.

Bukey, John R.: *See—*
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Bukosky, Allen A.; Flavin, Michael A.; Hill, Donald G.; Huizinga, Donald D.; and Ritchey, James F., to Bell Telephone Laboratories, Incorporated. Repertory dialer telephone set with register storage of the digits. 3,670,111, 6-13-72, Cl. 179-90.00b.

Bukowiecki, Bohdan A.; and Stopczyk, Mariusz. Method of synchronization and stimulation by means of pulse pairs at implanted heart stimulators with constant rhythm and the circuit for implementation of the method. 3,659,616, 5-2-72, Cl. 128-419.

Bukowiecki, Bohdan A.; and Stopczyk, Mariusz J. Method and apparatus for providing synchronized stimulus and coupled stimulation from an implanted heart stimulator having a constant rhythm. 3,683,934, 8-15-72, Cl. 128-419.00p.
Bukvich, John T.: *See—*
Wennerberg, Arnold N.; and Bukvich, John T., 3,642,657.
Bulat, John Ivan; and Jaun, Rudolph, to Ontario Paper Company Limited, The. Log bundle aligner. 3,647,092, 3-7-72, Cl. 214-6.
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Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshev, Vladimir Alexandrovich; Volkov, Valentin Vladimirovich; Firsel, Vladlen Borisovich; Bulatkin, Vladimir Dmitrivich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich, 3,693,570.
Buldini, Daniel A., to Polaroid Corporation. Nonsynchronous transfer apparatus. 3,690,433, 9-12-72, Cl. 198-19.000.
Buletti, Arnold A. Auxiliary brake system. 3,688,879, 9-5-72, Cl. 188-353.000.
Bulgin, Reginald W. Plug socket for use in a distributor system for electrical power. 3,673,361, 6-27-72, Cl. 200-51.030.
Bulgrin, Walter William. Method and apparatus for producing vehicle rims. 3,706,120, 12-19-72, Cl. 29-159.100.
Bulharowski, John Francis, to Sylvania Electric Products, Inc. Film scanning system linearity apparatus. 3,670,101, 6-13-72, Cl. 178-7.200.
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Bulkley, David D.: *See—*
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Bull General Electric (Nederland) N.V.: *See—*
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Keulen, Gerben Jan, 3,672,668.
Bull, Gerald V.; and Palacio, Luis M., to Space Research Corporation. Sub-caliber projectile. 3,695,181, 10-3-72, Cl. 102-93.000.
Bull, James R.: *See—*
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Bull, Victor Edward. Cable stripping tool. 3,686,982, 8-29-72, Cl. 81-9.50r.
Bull, Willard C.; and Schmid, Bruce K., to Gulf Research & Development Company. Multiple stage process for producing light liquids from coal. 3,640,816, 2-8-72, Cl. 208-10.
Bulla, Zeb Vance, Jr.: *See—*
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Bullai, Carl N.: *See—*
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Bullard, E. D., Company: *See—*
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Raschke, Herbert A., 3,640,555.
Raschke, Herbert A., 3,685,054.
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Bullard, Edward M., to Mobil Oil Corporation. Oriented thermoplastic films comprising polypropylene and poly(para-tertiary-butyl-styrene). 3,666,834, 5-30-72, Cl. 260-897.
Bullard, Edwin R., Jr.; and Joosten, Wesley L., to Globe Universal Sciences, Inc. Capacitance variometer. 3,703,828, 11-28-72, Cl. 73-179.
Bullard, Herbert L., to Goodyear Tire & Rubber Company, The. Isobutylene, 1,3 butadiene, methyl butene copolymers. 3,661,870, 5-9-72, Cl. 260-80.7.
Bullard, Terry S. Floating body amusement device. 3,698,711, 10-17-72, Cl. 273-1.001.
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Bullen, Leslie Gerald: *See—*
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Bullen, Leslie Gerald, to EMI Limited, mesne. Mooring devices. 3,631,550, 1-4-72, Cl. 9-8.
Bullen, Ronald S., to Dresser Industries, Inc. Well fracturing method employing a liquified gas and propping agents entrained in a fluid. 3,664,422, 5-23-72, Cl. 166-283.000.
Bullen, Ronald S., to Dresser Industries, Inc. Placement and detonation method for explosive fracturing. 3,690,379, 9-12-72, Cl. 166-299.000.
Buller, Dale F.; and Rohrs, Douglas W., to General Electric Company. Optical multiplexing device and system for television transmitters. 3,662,106, 5-9-72, Cl. 178-7.88.
Buller, Joseph S.; Nagy, Michael J.; and Peterson, Eugene W., to Santa Barbara Research Center. Valve arrangement to provide temperature level control at cryogenic temperature ranges. 3,640,091, 2-8-72, Cl. 62-514.
Bulleyment, Keith J., to Honeywell Inc. Power converter apparatus. 3,643,150, 2-15-72, Cl. 321-5.
Bullinga, Johannes, to Collins Radio Company. DC-DC regulated inverter employing pulse-width modulation with a constant volt-second sensing transformer. 3,660,751, 5-2-2, Cl. 321-2.000.
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Bullis, Robert H.; and Nighan, William, to United Aircraft Corporation. Gas laser low ionization electric discharge. 3,668,550, 6-6-72, Cl. 331-94.500.
Bullivant, Kenneth W., to K-Tron Corporation. Digitally controlled mass flow feeder and weight integrator. 3,679,010, 7-25-72, Cl. 177-16.000.
Bulloch, James E., to Bendix Corporation, The. Control logic switching for an on-off controller. 3,636,411, 1-18-72, Cl. 317-137.
Bullock, Clifford Ralph: *See—*
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Bullock, Derek John William: *See—*
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Bullock, Francis J., to Little, Arthur D., Inc. Method for detecting and quantitating the presence of cannabinoids and analogs thereof in biological materials and resulting products. 3,656,906, 4-18-72, Cl. 23-230.
Bullock, John W., to Arrow-Hart, Inc. Contact operating mechanism for contact breaker. 3,703,694, 11-21-72, Cl. 337-62.000.
Bullock, Michael K.; Miller, Myrl J.; and Voit, William F., Jr., to International Business Machines Corporation. Balance type toner concentration sensing and monitoring system. 3,679,099, 7-25-72, Cl. 222-55.000.
Bullock, Milon Walker, to American Cyanamid Company. Method for producing 2,3,5, 6-tetrahydroimidazo-[2,1-b]thiazoles. 3,642,809, 2-15-72, Cl. 260-306.7.
Bullock, Milon Walker; and Hand, John James, to American Cyanamid Company. Racemization of d(+) 6-phenyl-2,3,5,6-tetrahydroimidazo [2,1-b] thiazole. 3,673,206, 6-27-72, Cl. 260-306.700.
Bullock, Milon Walker, to American Cyanamid Company. Method of preparing dl 6-phenyl-2,3,5,6-tetrahydroimidazo [2,1-b]-thiazole hydrochloride. 3,679,696, 7-25-72, Cl. 260-306.700.
Bullock, Milon Walker, to American Cyanamid Company. Compound [(β-hydroxyphenethyl)amino]ethyl thiocyanate and acid addition salts thereof. 3,679,725, 7-25-72, Cl. 260-454.000.
Bullock, William W. Water ski towrope reel. 3,638,876, 2-1-72, Cl. 242-106.
Bulman, E. O., Manufacturing Company, Inc., The: *See—*
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Buls, Melvin Lawrence; and Varnum, Gerald Frank, to Fisher Controls Company, Inc. Pneumatic relay. 3,692,054, 9-19-72, Cl. 137-596.180.
Buls, Vernon W.; and Grimsby, F. Norman, to Shell Oil Company. Salt drying by plural stage azeotropic distillation with plural entrainers. 3,647,639, 3-7-72, Cl. 203-14.
Bult, James P., III. Reversible sign. 3,650,055, 3-21-72, Cl. 40-78.
Bulteau, Gerard, to Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France. Alkyl esters of 4-substituted phenoxyisobutyric acid. 3,632,629, 1-4-72, Cl. 260-470.
Bultema, John H. Pipe laying method and apparatus. 3,656,309, 4-18-72, Cl. 61-72.1.
Bultemann, Hans-Joachim: *See—*
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Bumbalek, Karel; and Olser, Ladislav, to Zavody Presneho strojirenstvi Gottwaldow narodni podnik. Shaping machine for shoe uppers. 3,678,522, 7-25-72, Cl. 12-8.100.
Bumgardner, Donald L., to Burroughs Corporation. Print ribbon drive and reversing device. 3,633,841, 1-11-72, Cl. 242-67.4.

Bump, Charles K.; and Hahn, Frank J., to Monsanto Company. Mixed resin system. 3,666,832, 5-30-72, Cl. 260-853.
Bump, Edward L., to Vaughan Mfg. Co. Dispenser. 3,637,276, 1-25-72, Cl. 312-39.
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Bump, Philip G., to Beloit Corporation. Replaceable vane insert for impeller. 3,707,267, 12-26-72, Cl. 241-294.000.
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Bumpus, Ward H., to Fasco Industries, Inc. Infrared heater and ventilator unit. 3,636,306, 1-18-72, Cl. 219-365.
Bunas, Gary L.; and Clark, Ross P., to Memorex Corporation. Method of making vesicular film. 3,684,547, 8-15-72, Cl. 117-34.000.
Bunaweske Huls Gesellschaft mit beschrankter Haftung, mesne: *See—*
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Bunch, Charles B. Foldable article and latch mechanism therefor. 3,688,789, 9-5-72, Cl. 135-45.00a.
Bunch, Raymond S.; and Sanger, Richard B., to General Electric Company. Device for varying the inductance of a helical inductor. 3,648,205, 3-7-72, Cl. 336-20.
Bunchez, Samuel H. Method for treating photographic film. 3,687,710, 8-29-72, Cl. 117-64.000.
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Bundschuh, John J.; Roman, Robert J.; and Thomson, Kenneth W., to Eastman Kodak Company. Cinematographic cartridge projector apparatus. 3,703,333, 11-21-72, Cl. 352-157.000.
Bundt, Emil E., Jr.: *See—*
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Bundus, Robert H., to Beatrice Foods Co. Process for preparing chocolate flavored banana powder. 3,663,718, 5-16-72, Cl. 99-204.000.
Bundy, Gordon L.; and Nelson, Norman A., to Upjohn Company, The. Organic compounds and processes. 3,689,521, 9-5-72, Cl. 260-468.00s.
Bundy, Patrick L., to Michigan Carton Co. Flat foldable carton having a preformed, anchored in place, and folded bottom, with self-locking top. 3,700,161, 10-24-72, Cl. 229-41.00c.
Bungardt, Karl; Becker, Gottfried; Lehnert, Gunter; and Lennartz, Gustav, to Deutsche Edelstahlwerke Aktiengesellschaft. Protective coatings by chromium diffusion of metal parts and process. 3,632,407, 1-4-72, Cl. 117-107.2.
Bungardt, Karl; Lehnert, Gunter; and Meinhardt, Helmut W., to Deutsche Edelstahlwerke Aktiengesellschaft. Protective diffusion layer on nickel and/or cobalt-based alloys. 3,677,789, 7-18-72, Cl. 117-22.000.
Bungardt, Karl; Lehnert, Gunter; and Meinhardt, Helmut, to Deutsche Edelstahlwerke Aktiengesellschaft. Production of protective layers on cobalt-based alloys. 3,692,554, 9-19-72, Cl. 117-22.000.
Bungardt, Karl; Dietrich, Hermann; Lennartz, Gustav; and Arntz, Hans-Egon, to Deutsche Edelstahl-Werke Aktiengesellschaft. Non-Magnetisable steel. 3,698,889, 10-17-72, Cl. 75-123.000.
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Bunger, Fred Lee; and Levitsky, Michael, to Du Pont de Nemours, E. I., and Company. Coupling agent formulations. 3,689,300, 9-5-72, Cl. 106-287.000.
Bunger, Fred Lee; and Moore, Earl Phillip, Jr., to Du Pont de Nemours, E. I., and Company. Novel crosslinked chromium complexes. 3,705,183, 12-5-72, Cl. 260-438.50c.
Bunger, Mills E., 1/2 to Laipple, William J. Canal check gate. 3,665,714, 5-30-72, Cl. 61-23.000.
Bunger, Mills E. Canal check gate apparatus. 3,665,715, 5-30-72, Cl. 61-25.000.
Bungter, Karl: *See—*
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Buning, Robert; Diessel, Karl-Heinz; and Bier, Gerhard, to Dynamit Nobel Aktiengesellschaft. Low temperature polymerization of vinyl chloride in the presence of a redox catalyst. 3,637,625, 1-25-72, Cl. 260-85.5.
Buning, Robert; Raalf, Hans; and Pungs, Wolfgang, to Dynamit Nobel Aktiengesellschaft. Production of polyvinyl chloride shaped articles. 3,640,930, 2-8-72, Cl. 260-23.
Buning, Robert; Bernhardt, Gunther; Bierwirth, Egon; and Trautvetter, Werner, to Dynamit Nobel Aktiengesellschaft. Galvanically metallized objects having a post-chlorinated polyethylene substrate and process of producing same. 3,647,402, 3-7-72, Cl. 29-195
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Bunk, Albert R.; Bennett, Bailey; Berry, David A.; Parkin, Bernard A., Jr.; Schuller, Walter H.; and Lawrence, Ray V., to United States of America, Agriculture. Mastic adhesive composition containing rosin pot residue or its zinc salt or glycol polyester. ,652,467, 3-28-72, Cl. 260-2.3.
Bunk, Albert R.; Bennett, Bailey; Berry, David A.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., to United States of America, Agriculture. Mastic adhesive composition containing zinc salt of formaldehyde-modified rosin. 3,681,268, 8-1-72, C. 260-2.300.
Bunke Concrete Accessories, Inc.: *See—*
Steffan, William J., 3,639,555.
Bunker, Charles L.: *See—*
Achterberg, Raymond C.; and Bunker, Charles L., 3,691,618.
Bunker Hill Company, The: *See—*
Moore, Raymond H., 3,682,589.
Bunker, James F.; Poland, James E.; Sayell, Emerson H.; and Schmidt, George V., to United States of America, Atomic Energy Commission. Radioisotope heat source system. 3,697,329, 10-10-72, Cl. 136-202.000.
Bunker, Robert W. Lockable assembly and rake-cultivator implement for using same. 3,668,849, 6-13-72, Cl. 56-400.170.
Bunker, Thomas D.; and Thompson, David F., to Sylvania Electric Products, Inc. Fabrication of packages for integrated circuits. 3,689,336, 9-5-72, Cl. 156-89.000.
Bunker, William H.; Kerr, John W.; Mitrofanoff, Nicholas S.; and Swearingen, Kent W., to International Business Machines Corporation. Input/output channel. 3,680,054, 7-25-72, Cl. 340-172.500.
Bunker-Ramo Corporation, The: *See—*
Albee, Thomas K., 3,644,852.
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Baur, Robert, 3,695,116.
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Gallagher, Frank William; and Casey, Richard C., 3,665,406.
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Melillo, Manlio B.; and Vlachos, Daniel P., 3,634,205.
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Bunn, Clinton O., to Col-Mont Corporation. Agglomerated porous mass and method of preparing same. 3,651,948, 3-28-72, Cl. 210-502.

Bunn, Dorrance P., Jr.; and Hack, Werner L. Steam distributor for fluid catalytic cracker stripper. 3,690,841, 9-12-72, Cl. 23-288.00s.

Bunn, Stuart E.: *See*—
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Bunn, Stuart E.; and Owsley, Herbert B. Valve assembly and valve member therefor. 3,701,361, 10-31-72, Cl. 137-543.230.

Bunn-O-Matic Corporation: *See*—
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Martin, John C., 3,691,933.

Bunnell, Charles Milton. Scallop muscle and viscera preconditioner. 3,703,022, 11-21-72, Cl. 17-53.000.

Bunnell, Douglas E.; and Walker, Douglas J., to Whirlpool Corporation. Multiple compartment dispenser for a laundry appliance. 3,696,970, 10-10-72, Cl. 222-145.000.

Bunnell, Edward Dennman, to AMP Incorporated. Electrical cable having integral terminals. 3,706,955, 12-19-72, Cl. 339-28.000.

Bunnell, John A.: *See*—
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Bunshodo Co., Ltd.: *See*—
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Bunte, William S.; and De Gasperis, Lino E., to Egan Machinery Company. Extrusion die deckle means. 3,694,132, 9-26-72, Cl. 425-466.000.

Bunte, William S.; and De Gasperis, Lino E., to Egan Machinery Company. Extrusion die deckle means. 3,706,518, 12-19-72, Cl. 425-381.000.

Buntin, George A., to Hercules Incorporated. N-(alpha, alpha-dimethylbenzyl)-alpha, alpha-(dimethylalkylamides). 3,644,521, 2-22-72, Cl. 260-562.

Buntin, Henry J. Swimming, teaching and training aid. 3,698,026, 10-17-72, Cl. 9-308.000.

Buntin, Robert R.; Harding, John W.; Keller, James P.; and Murdock, Vollie L., to Esso Research and Engineering Company. Melt blown roving die. 3,684,415, 8-15-72, Cl. 425-71.000.

Bunting, Arthur; and Heighton, Arthur Victor, to Hall-Thermotank International Limited and Overseas Containers Limited. Coupling station. 3,645,498, 2-29-72, Cl. 251-159.

Bunting, Charles W.; Fortman, William R.; and Ash, Albert H., to McCall Corporation. Method and apparatus for adding loose inserts to magazines. 3,658,318, 4-25-72, Cl. 270-55.000.

Bunting, Charles W.; Groeber, David P.; and Pettlo, Louis W., to McCall Corporation, mesne. Method of making a flexible letterpress mat. 3,668,032, 6-6-72, Cl. 156-215.000.

Bunting, Earl L., to Bunting Steri Systems, Inc. Process and signal distributing system and apparatus used therein. 3,699,250, 10-17-72, Cl. 178-6.800.

Bunting, Henry E.; and Smith, Paul E., to U.S. Electronic Services Corporation. Microcircuit package and method of making same. 3,641,254, 2-8-72, Cl. 174-68.5.

Bunting, James William: *See*—
Nienstaedt, Robert; and Bunting, James William, 3,692,986.

Bunting, Leslie J. Control device for projector film stripping and threading mechanism. 3,688,960, 9-5-72, Cl. 226-91.000.

Bunting, Leslie J. Device for adjusting a web-advancing mechanism. 3,689,008, 9-5-72, Cl. 242-192.

Bunting Steri Systems, Inc.: *See*—
Bunting, Earl L., 3,699,250.

Bunting, Thomas A., to Lear Siegler, Inc. Apparatus for dressing abrasive wheels. 3,634,977, 1-18-72, Cl. 51-165.87.

Bunting, Thomas G.: *See*—
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Bunting, William; and Langer, Arthur W., Jr., to Esso Research and Engineering Company. Process for telomerizing conjugated diolefins with aromatics and olefins. 3,705,200, 12-5-72, Cl. 260-668.000.

Bunting, William W., Jr.; Buskirk, Robert E.; Hogan, John P.; and Mahla, Elbert M., to Du Pont de Nemours, E. I., and Company. Thermoplastic film slitting. 3,704,975, 12-5-72, Cl. 425-304.000.

Buntz, Billie J.: *See*—
Mills, Loring E.; Marler, James V.; and Buntz, Billie J., 3,680,690.

Bunyard, Alan Donald. Pilot actuated fluid control valve. 3,688,799, 9-5-72, Cl. 137-625.640.

Bunyea, Roderick F.: *See*—
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Buonaiuto, Robert B. Apparatus for making thermoplastic cellular products. 3,676,033, 7-11-72, Cl. 425-174.000.

Buonassissi, Albert J. Hand cart. 3,640,544, 2-8-72, Cl. 280-47.35.

Buonsante, John J.; Freericks, Lambert; Haarmann, Howard J.; and Sieglinger, John C., to American Telephone and Telegraph Company. Selectably controllable announcement system. 3,697,702, 10-10-72, Cl. 179-18.00b.

Bura, Ernst, to Fernseh G.m.b.H. Device for fitting conductor plates. 3,644,979, 2-29-72, Cl. 29-20.3.

Burakoff, Valdemar; Krakstrom, Paul; Sinervo, Into; and Solitanner, Kaarlo H., to Oy Wartsila AB. Padlock. 3,636,738, 1-25-72, Cl. 70-38.

Buran, Vojtech; Kuba, Jaromir; Uncovsky, Adolf; and Zouhar, Karel, to Vyzkumny a vyvojovy ustav Zavodu vseobecneho strojirenstvi. Stable ionization-type anemometer having an optimally adjustable measurement range. 3,638,489, 2-1-72, Cl. 73-194.

Buran, Vojtech; Kuba, Jaromir; Uncovsky, Adolf; and Zouhar, Karel, to Vyzkumny a vyvojovy ustov zavodu vseobecneho strojirenstvi. Apparatus for determining the direction of flow of an ionizable fluid. 3,683,178, 8-8-72, Cl. 250-43.5fc.

Burant, Walter, Jr., to Sterling Drug Inc. Sewage sludge and garbage grinder. 3,658,262, 4-25-72, Cl. 241-46.

Burba, Christian; Drawert, Manfred; Voigt, Hartmut; and Griebsch, Eugen, to Schering AG. Polyurethane foam. 3,697,458, 10-10-72, Cl. 260-2.5aq.

Burbank, John Emerson; Lautenberger, William Henry; and Fasciano, Patrick John, to Scovill Manufacturing Company. Apparatus and method for forming coil for plastic slide fastener. 3,634,922, 1-18-72, Cl. 29-410.

Burbank, John Emerson, III, to Wiltek, Inc. Magnetic card data recorder/reproducer. 3,706,860, 12-19-72, Cl. 179-100.2ca.

Burbick, Ross E.: *See*—
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Calisher, Jay V.; and Burbick, Ross E., 3,674,061.

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Burbidge, Bernard Whiting; Keen, Ian Montgomery; and Pout, Christopher Ronald, to British Petroleum Company Limited, The. Hydrocatalytic process for normal paraffin wax and sulfur removal. 3,668,113, 6-6-72, Cl. 208-97.000.

Burch, Arthur R., to Clark Equipment Company. Elevator vertical shift and lateral dolly control system. 3,662,860, 5-16-72, Cl. 187-29.

Burch, Arthur R.; and Bates, Charles E., to Clark Equipment Company. Obstruction detection means for material handling device. 3,670,905, 6-20-72, Cl. 214-16.40a.

Burch, Arthur R., to Clark Equipment Company. Station address and control system for material handling vehicles. 3,691,398, 9-12-72, Cl. 307-116.000.

Burch, Charles O.; and May, David H. Inlet distributor for storage tanks. 3,638,676, 2-1-72, Cl. 137-576.

Burch, Darrel W.; and Jacomet, Arthur H., to Garrett Corporation, The. Pawl and ratchet clutch. 3,638,774, 2-1-72, Cl. 192-42.

Burch, Edward N. Underwater pile cutting saw. 3,693,676, 9-26-72, Cl. 143-32.00r.

Burch, Homer A.; and Schwan, Thomas J., to Morton-Norwich Products, Inc. Resolution of L-dopa intermediate. 3,665,032, 5-23-72, Cl. 260-519.

Burch, Jack J., to Texas Instruments, Incorporated. Coherent light array for use in image projection systems. 3,702,929, 11-14-72, Cl. 240-41.000.

Burch, John L., to National Aeronautics and Space Administration. Two-speed drive system. 3,678,771, 7-25-72, Cl. 74-217.000.
Burch, Lyndon W. Snap action switch with free-floating roller and cam shaped actuator. 3,681,547, 8-1-72, Cl. 200-68.000.
Burch, Randolph. Feeding and conveying device for automatic nailing machines. 3,706,408, 12-19-72, Cl. 227-45.000.
Burchell, Geoffrey Barnett; and Morel, Richard William Victor. Valve and circuit for intermittent positive pressure breathing apparatus. 3,672,366, 6-27-72, Cl. 128-145.8.
Burchell, Wesley. Variable pattern recorder. 3,690,011, 9-12-72, Cl. 33-27.00j.
Burcher, George D.: *See—*
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Burcin, Robert J.; Johnson, Orville L.; and Mouton, Rene P., to Foster Wheeler Corporation. Flexible coupling. 3,682,501, 8-8-72, Cl. 285-114.000.
Burck, Willem Marinus, to N.V. Industrieele Handelscombinatie Holland. Piston of an internal combustion engine. 3,633,468, 1-11-72, Cl. 92-186.
Burckhalter, Albert Cohen Frank O., to Westinghouse Electric Corporation. Protective system for automatic actuation of steam turbine drain valves. 3,694,103, 9-26-72, Cl. 415-168.000.
Burckhalter, James A. Lifting device. 3,672,716, 6-27-72, Cl. 294-50.600.
Burckhardt, Chr.: *See—*
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Burckhardt, Christoph; and Glaser, Walter, to Burckhardt, Chr. Porcupine rollers. 3,646,639, 3-7-72, Cl. 19-97.
Burckhardt, Christoph B.; and Doherty, Edward T., to Bell Telephone Laboratories, Incorporated. Beaded plate integral photography. 3,676,130, 7-11-72, Cl. 96-40.000.
Burckhardt, Manfred H.; and Schwerdt, Paul, to Daimler-Benz Aktiengesellschaft. Installation for the brake locking prevention. 3,651,901, 3-28-72, Cl. 188-181.
Burckhardt, Manfred H.; and Schwerdt, Paul, to Daimler-Benz Aktiengesellschaft. Installation for the brake-locking prevention in vehicles. 3,653,471, 4-4-72, Cl. 188-181.
Burckhardt, Manfred H.; Florus, Hans-Jorg; and Grossner, Horst, to Daimler-Benz Aktiengesellschaft. Installation for preventing spinning of the driven wheels of a motor vehicle. 3,667,813, 6-6-72, Cl. 303-21.
Burckhardt, Manfred H.; Florus, Hans-Jorg; Grossner, Horst; and Krohn, Helmut, to Daimler-Benz Aktiengesellschaft. Brake force controls system for vehicles, especially motor vehicles. 3,672,730, 6-27-72, Cl. 303-21.0be.
Burd, Braddock & Bartz: *See—*
Wasserman, Arthur, 3,648,649.
Burd, John W., to Monsanto Company. Apparatus for production of epitaxial films. 3,675,619, 7-11-72, Cl. 118-48.000.
Burd, Thomas A., to Square D Company. Rotatably reversible connector for electric circuit breaker. 3,679,854, 7-25-72, Cl. 200-166.0bh.
Burda, Jan C.: *See—*
Blatchford, John K.; Peterson, Edward C.; and Burda, Jan C., 3,679,473.
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Burden, Billy J. Pegboard game unit with utility compartment. 3,658,334, 4-25-72, Cl. 273-133.
Burden, Peter; and Whitton, Colin Alfred, to Hooker Chemical Corporation. Composition and process for cleaning metal. 3,645,790, 2-29-72, Cl. 134-3.
Burdeska, Kurt: *See—*
Pugin, Andre; Burdeska, Kurt; and Model, Ernst, 3,682,966.
Pugin, Andre; Burdeska, Kurt; and Model, Ernst, 3,701,791.
Burdet, Evelyne; and Hofer, Kurt. Nickel compounds. 3,686,246, 8-22-72, Cl. 260-439.00r.
Burdet, Georges, to Ets. Meyer & Grandgirard S.A. Watch case with multiple internal and external rotatable dials. 3,665,701, 5-30-72, Cl. 58-91.000.
Burdett, Henry S.; and Harris, Ronald, to Stibbe Machinery Limited. Patterning mechanism for multi-feed circular knitting machines. 3,641,786, 2-15-72, Cl. 66-50.
Burdett, Henry Sidney; and Harris, Ronald, to Stibbe Machinery Limited. Yarn feeding arrangements for circular knitting machines. 3,681,941, 8-8-72, Cl. 66-19.000.
Burdett, Michael Keith: *See—*
Osborne, Colin Terry; and Burdett, Michael Keith, 3,644,718.
Burdett, Roy. Folding bed assembly for a vehicle. 3,675,965, 7-11-72, Cl. 296-23.000.
Burdette, George William, to United States of America, Navy. Solid propellant composition containing gelled hydrazine. 3,634,154, 1-11-72, Cl. 149-20.
Burdette, George William; and Couch, Dean Henry, to United States of America, Navy. Gelled amine rocket fuels. 3,650,857, 3-21-72, Cl. 149-36.
Burdette, Marvin A., Jr. Genital erector. 3,631,853, 1-4-72, Cl. 128-79.
Burdick Corporation, The: *See—*
Dominy, Francis I., 3,648,689.
Partridge, Leslie W., 3,636,449.
Burdick, Donald R., 1/2 to Pater, Donald H. Teaching device. 3,650,044, 3-21-72, Cl. 35-9.
Burdick, Thomas H., to Baxter Laboratories, Inc. Conservation of transient pulses in analog to digital conversion. 3,689,879, 9-5-72, Cl. 340-347.0ad.
Burdige, Joseph: *See—*
Mc Farlane, Samuel B., Jr.; Burdige, Joseph; and Alexander, Norman E., 3,645,614.
Burdwood, Howard A. Method and apparatus for use in inflating tennis and other balls. 3,699,739, 10-24-72, Cl. 53-7.000.
Bureau de Recherches Geologiques et Minieres: *See—*
Cohen-Alloro, Richard; and Grassaud, Jean, 3,659,711.
Cohen-Alloro, Richard; Cuvillier, Roger; and Grassaud, Jean, 3,703,237.
Burek, John A., Jr.: *See—*
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Burelle, Pierre; and Engelhardt, Jean Alfred, to Societe anonyme dite: Cefilac. Process for manufacturing tight seals, and seals obtained by this process. 3,660,184, 5-2-72, Cl. 156-62.2.
Burens, James H., to North Electric Company. Power supply circuit arrangement utilizing regenerative current feedback. 3,683,208, 8-8-72, Cl. 307-296.000.
Buresh, Francis M.; Nisenson, Stanley M.; Lipscomb, Walter P.; and Saich, Anthony M. Non-woven process. 3,704,191, 11-28-72, Cl. 156-148.000.
Buress, John W., II, to Drill Carrier Corporation. Automatic braking mechanism. 3,704,757, 12-5-72, Cl. 180-6.480.
Burfoot, Walter S. Thread milling attachment for engine lathes. 3,704,648, 12-5-72, Cl. 90-11.620.
Burford, Robert G.: *See—*
Kruger, Gunther; and Burford, Robert G., 3,658,855.
Burg, Karlheinz; Cherdron, Harald; Lehmann, Heinz; and Lutz, Eleonore, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Bonding with thermoplastic polyacetal adhesives. 3,639,192, 2-1-72, Cl. 156-327.
Burg, Karlheinz; Gutweiler, Klemens; and Hermann, Hans Dieter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Trioxane copolymers. 3,639,349, 2-1-72, Cl. 260-67.
Burg, Karlheinz; and Cherdron, Harald, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyoxymethylenes containing a butadiene polymer and a vinyl aromatic hydrocarbon or a methyl methacrylate polymer. 3,642,940, 2-15-72, Cl. 260837.
Burg, Karlheinz; Wolters, Ernst; Cherdron, Harald; and Leugering, Hans-Joachim, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Thermoplastic moulding compositions on the basis of polyoxymethylenes. 3,704,275, 11-28-72, Cl. 260-370al.
Burg, Kenneth E., to Texas Instruments, Incorporated. Marine acoustic velocity profiling. 3,644,882, 2-22-72, Cl. 340-7.
Burg, Raymond H.: *See—*
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Burgard, Ernst; and Gross, Jurnjochen, to International Standard Electric Corporation. Multiple holding arrangement. 3,669,279, 6-13-72, Cl. 211-41.000.
Burgarella, John P., to Polaroid Corporation. Photographic camera having backup system for automatic film speed insertion. 3,631,776, 1-4-72, Cl. 95-10.
Burgarella, John P., to Polaroid Corporation. Exposure control system. 3,641,891, 2-15-72, Cl. 95-10.
Burgarella, John P., to Polaroid Corporation. Exposure control system with automatic adjustment for flash synchronization. 3,659,509, 5-2-72, Cl. 95-11.5.
Burgarella, John P.; and Ellin, Seymour, to Polaroid Corporation. Flash synchronization circuit for sequential firing of an array of flashbulbs. 3,699,861, 10-24-72, Cl. 95-11.500.
Burgdorf, Jochen: *See—*
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Beller, Hans Albert; and Burgdorf, Jochen, 3,661,231.
Burgdorf, Marten: *See—*
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Burge, Joseph C., to General Electric Company. Actuation ring for variable geometry compressors of gas turbine engines. 3,685,920, 8-22-72, Cl. 415-147.000.
Burger, Donald A.: *See—*
Baldwin, Walton B.; and Burger, Donald A., 3,675,906.
Burger Eisenwerke Aktiengesellschaft: *See—*
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Jung, Anton Ladislaus; and Ledwon, Erhard, 3,656,469.

Burger, Erich. Circuit arrangement for the compensation of the direct current voltage disturbance component occuring in the demodulation of frequency-re-scanned. 3,688,205, 8-29-72, Cl. 329-132.000.
Burger, Francis J. P. J.; and Wu, Jie Chu, to Sprague Electric Company. Aluminum electrolytic capacitor. 3,676,752, 7-11-72, Cl. 317-230.000.
Burger, Jack E.; Deutsch, Fritz A.; Howe, Warren B.; and Kyle, William, to Addressograph-Multigraph Corporation. Reprography machine controlled by information on master. 3,650,204, 3-21-72, Cl. 101-45.
Burger, Karl-Heinz, to Bosch, Robert, G.m.b.H. Window-cleaning arrangement. 3,667,081, 6-6-72, Cl. 15-250.24.
Burger King Corporation: *See*—
Bennett, Alden H.; and Williams, Leslie G., 3,638,558.
Burger, Manfred, 50% to Delany, Daniel Stephen. Valve with axially spaced guides and bellows operator. 3,637,187, 1-25-72, Cl. 251-61.3.
Burger, Walter: *See*—
Levacher, Friedrich; Ditscheid, Hans Leo; Burger, Walter; Asselborn, Peter; and Cramer, Werner, 3,672,196.
Burger, William H., to Kimberly-Clark Corporation. Process for producing panties. 3,663,962, 5-23-72, Cl. 2-224.
Burger, William H., to Kimberly-Clark Corporation. Method and apparatus for bias crosslaying a fiber web. 3,682,734, 8-8-72, Cl. 156-166.000.
Burger, William H.; and Rightor, Edward, Jr., to Kimberly-Clark Corporation. Machine for making diapers. 3,685,818, 8-22-72, Cl. 270-61.000.
Burger, William H., to Kimberly-Clark Corporation. Apparatus for crosslaying fiber webs. 3,689,349, 9-5-72, Cl. 156-439.000.
Burger, William H., to Kimberly-Clark Corporation. Method for applying elastic ribbon to fabrics. 3,694,815, 10-3-72, Cl. 2-224.00a.
Burgermeister, Ulrich; and Gaggini, Carlo, to Rieter Machine Works, Ltd. Apparatus for conjointly doffing and donning a plurality of bobbins or tubes placed on spindles of ring spinning and ring twisting machines. 3,667,204, 6-6-72, Cl. 57-52.000.
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Burgess, James V., Jr. Mine ventilation control system. 3,636,852, 1-25-72, Cl. 98-50.
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Burke, John E.; Kaiser, Edward J.; and Myers, Charles J., to Lonergan, J. E., Company. Mechnical check. 3,643,531, 2-22-72, Cl. 82-11.
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Cresswell, Ronald M.; Mentha, John W.; and Seaman, Russell, 3,682,957.
Cresswell, Ronald M.; Mentha, John W.; and Seaman, Russell L., 3,697,512.
Cresswell, Ronald Morton; and Mentha, John William, 3,671,564.
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Roth, Barbara; and Strelitz, Justina, 3,692,787.
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Burrous, Clifford N.; and Deboo, Gordon J., to United States of America, National Aeronautics and Space Administration. Temperature compensated light source using a light emitting diode. 3,705,316, 12-5-72, Cl. 307-311.000.

Burrous, Merwyn L.; and Furby, Neal W., to Chevron Research Company. Low alkali metal content hydraulic fluids and their preparation. 3,649,721, 3-14-72, Cl. 260-990.

Burrous, Stanley E.: *See—*
Schwan, Thomas J.; Burrous, Stanley E.; and Butterfield, James L., 3,681,349.

Burrows, Alan A.; and Lehde, Henry C., to McDonnell Douglas Corporation. Pulse coded vehicle guidance system. 3,648,229, 3-7-72, Cl. 340-26.

Burrows, Clifford G.; Magnuson, John E.; and Giese, Ludi, to Canadian Kenworth Ltd. Power system for loading an empty trailer onto a tractor or for loading pre-loaded trailers onto a fifth wheel of the tractor. 3,706,464, 12-19-72, Cl. 280-401.000.

Burrows, Clinton A., Jr. Modular fence construction. 3,698,692, 10-17-72, Cl. 256-19.000.

Burrows, Harold George; and Ingham, Philip Brierley, to Imperial Chemical Industries Limited. Dyeable polyamides containing polystyrene sulfonic acid. 3,665,054, 5-23-72, Cl. 260-857.

Burrows, Robert B.: *See—*
Phillips, Arthur P.; and Burrows, Robert B., 3,641,012.

Burrows, Robert K. Apparatus for watering animals. 3,683,956, 8-15-72, Cl. 137-408.000.

Burrows, Roy: *See—*
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Burrus, Bill S.; and Rosso, John B., to Combustion Engineering, Inc. Means for detection and control of liquid level in a vessel. 3,654,458, 4-4-72, Cl. 250-43.5.

Burrus, Bill S., to Combustion Engineering, Inc. Liquid level detector. 3,673,850, 7-4-72, Cl. 73-1.00r.

Bursack, Kenneth F.; and Johnston, Earnest L., to Vulcan Materials Company. Separation and recovery of 1,1,1-trichloroethane by extractive distillation. 3,658,657, 4-25-72, Cl. 203-51.

Bursack, Kenneth F.; and Johnston, Earnest L., to Vulcan Materials Company. Separation and recovery of 1,1,1-trichloroethane by extractive distillation. 3,658,658, 4-25-72, Cl. 203-58.

Bursian, Natalia Robertovna; Kogan, Samson, Borisovich; and Davydova, Zinaida Arkadievna. Process for the aromatization of hydrocarbons. 3,694,348, 9-26-72, Cl. 208-138.000.

Burst, Francis J.; and Adams, James S., to Hill-Rom Company, Inc. Double insulated electric hospital bed. 3,633,225, 1-11-72, Cl. 5-63.

Burstein, Norman, to Conveyor Heat Products Corporation. Conveyor belt tensioning device for tunnel cooker. 3,648,825, 3-14-72, Cl. 198-195.

Burstrom, Bertil Ingvar. Self-indicating target with slidable target sections. 3,633,911, 1-11-72, Cl. 273-102.1.

Burstrom, Martin; and Nilsson, Jan, to Allmanna Svenska Elektriska Aktiebolaget. Hydrostatic extrusion of compound material. 3,654,687, 4-11-72, Cl. 29-421.

Burt, Cortland Russell; and Ciavarri, Peter Anthony, to Du Pont de Nemours, E. I., and Company. Direct positive emulsions containing iodide ions and a sensitizing dye. 3,647,455, 3-7-72, Cl. 96-64.

Burt, F. N., Company, Inc.: *See—*
Baglio, James P., 3,642,273.
Rosenburg, Charles W., Jr., 3,633,815.

Burt, Harold S., to Conveyor Systems, Inc. Article positioning apparatus for roller conveyors. 3,642,117, 2-15-72, Cl. 198-38.

Burt, John, to Deutsch Fastener Corporation. Fastener with floating nut. 3,640,327, 2-8-72, Cl. 151-41.74.

Burt, John; and Lotgering, Louis S. Fastner driving arrangement. 3,658,105, 4-25-72, Cl. 145-50.

Burt Machine Company, Incorporated, mesne: *See—*
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Burt, Patrick V., to Monsanto Chemicals Limited. Production of foamable resins. 3,696,060, 10-3-72, Cl. 260-2.50b.

Burt, Ralph E.: *See—*
Tufts, Donald W.; Burt, Ralph E.; Davis, Victor I., Jr.; Queenan, James F.; Maloon, Richard A.; and Waterman, David W., 3,696,235.

Burt, Warren T.; and Hoffman, Herman J., to United States of America, Navy. Television system for terrain surveillance. 3,668,308, 6-6-72, Cl. 178-6.60a.

Burtch, Alfred H.; and Buell, Halsey W., to Carborundum Company, The. Pad for disc sanders. 3,707,059, 12-26-72, Cl. 51-358.000.

Burth, Rolf-Dieter: *See—*
Gerlach, Albrecht; and Burth, Rolf-Dieter, 3,643,246.

Burth, Willi. Supply and takeup system for film and the like. 3,661,337, 5-9-72, Cl. 242-55.19.

Burtin, James D., to Detroit Tool and Engineering Company. Pneumatic cement gun machine. 3,672,646, 6-27-72, Cl. 259-151.000.

Burtin, James D., to Detroit Tool and Engineering Company. Rivet bucking assembly and method. 3,696,501, 10-10-72, Cl. 29-509.000.

Burtin, James D. Fill cap assembly for sandblasting machines or the like. 3,706,166, 12-19-72, Cl. 51-12.000.

Burtis, Stokes Fenimore: *See—*
Ryan, Robert James; Burtis, Stokes Fenimore; and Grogan, John Thomas, 3,682,784.

Burtis, Stokes Fenimore, to RCA Corporation. Process for forming an isolated circuit pattern on a conductive substrate. 3,704,207, 11-28172, Cl. 204-15.000.
Burtis, Wilson A., to De Laval Turbine California, Inc. Tubing coupling. 3,647,246, 3-7-72, Cl. 285-114.
Burtis, Wilson A.; and Omori, Thomas T. Articulated snowmobile vehicle. 3,664,446, 5-23-72, Cl. 180-5.
Burtis, Winfield R., to Emhart Corporation. Pressure equalizing valve. 3,680,329, 8-1-72, Cl. 62-275.000.
Burton & Noonan, mesne: *See—*
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Burton, Charles. Surgical light. 3,645,254, 2-29-72, Cl. 128-23.
Burton, Charles. Production of focal brain lesions by inductive heating. 3,653,385, 4-4-72, Cl. 128-303.17.
Burton, Charles G., to Chisholm-Ryder Company, Inc. Fruit harvesting machine for low plants. 3,648,447, 3-14-72, Cl. 56-330.
Burton, Charles O.: *See—*
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Burton, Clement E.: *See—*
Mahr, Rene N.; Radoux, Henri Joseph; and Burton, Clement E., 3,662,696.
Burton, Dennis Ernest, to Fisons Pest Control Limited. Poly chloro or bromo mucononitrile. 3,637,800, 1-25-72, Cl. 260-465.7.
Burton, Dennis Ernest, to Fisons Limited. Fungicidal mucononitriles. 3,644,637, 2-22-72, Cl. 424-304.
Burton, Derek Arthur, to Johnson, A., & Company (London) Limited. Electrolytic cells. 3,669,869, 6-13-72, Cl. 204-268.
Burton, Duane C.: *See—*
Heflin, Donald R., 3,662,795.
Burton Electrochemical Co., Inc.: *See—*
Baldwin, Philip C., 3,672,968.
Burton, George M.; Christensen, Gerald M.; and Pilgrim, Arthur J., to Boeing Company, The. Apparatus for detecting viable organisms. 3,657,073, 4-18-72, Cl. 195-127.
Burton, Herbert O.; Reddy, Sudhakar M.; Sullivan, Daniel D.; and Tong, Shih Y., to Bell Telephone Laboratories, Incorporated. Random and burst error-correcting arrangement with guard space error correction. 3,638,182, 1-25-72, Cl. 340-146.1.
Burton, Herbert O., to Bell Telephone Laboratories, Incorporated. Decoding method and apparatus for Bose-Chaudhuri-Hocquenghem codes. 3,648,236, 3-7-72, Cl. 340-146.1.
Burton Instrumentation, Inc.: *See—*
Burton, Jay E., 3,656,160.
Burton, Jay E., to Burton Instrumentation, Inc. Downed-aircraft radio locator-beacon employing plural loop antennas. 3,656,160, 4-11-72, Cl. 343-702.
Burton, John S.; Gilman, Samuel; Rothbart, Michael; and Whitney, Ronald L., to Terminal Data Corporation. Document camera system. 3,645,619, 2-29-72, Cl. 355-40.
Burton, Michael Blaker: *See—*
Welker, Harry Logue, Jr.; and Burton, Michael Blaker, 3,638,392.
Burton, Paul E.: *See—*
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Burton, Paul T.; Cole, Walter E.; Frassetto, Henry E., Jr.; Gibson, Robert G.; Greenberg, Allan; Handloff, Louis E.; and Radlinsky, Raymond, to International Business Machines Corporation. Microprogrammed common control unit with double format control word. 3,673,575, 6-27-72, Cl. 340-172.500.
Burton, Perry E., to Burton & Noonan, mesne. Method and apparatus for cutting and hemming cloth lengths. 3,640,235, 2-8-72, Cl. 112-121.29.
Burton, R. Edward: *See—*
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Burton, Raymond V., Jr.; and Giachino, Eugene L., to Lockheed Aircraft Corporation. Method and means for leak detection. 3,683,675, 8-15-72, Cl. 73-40.700.
Burton, Robert, to Avery Products Corporation. Label imprinting and applying machine and method. 3,655,492, 4-11-72, Cl. 156-541.
Burton, Robert Edward, to Microphor, Inc. Separation of organic solids from waste liquids. 3,700,590, 10-24-72, Cl. 210-17.000.
Burton, Robert R.: *See—*
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Burton, Robert V., to Honeywell Inc. Hydraulic fluidic servoactuators. 3,648,564, 3-14-72, Cl. 91-3.
Burton, Roy Harold: *See—*
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Burton, William D. Omnidirectional horn loudspeaker. 3,649,776, 3-14-72, Cl. 179-115.5.
Burtsev, Pavel Semenovich: *See—*
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Burtsev, Pavel Semenovich; Yanchevsky, Kazimir Stanislavovich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny oiseevich; and Khaidurov, Leonid Konstantinovich, 3,656,810.
Burwell, Stanley J. Apparatus for disintegrating tires and the like. 3,658,267, 4-25-72, Cl. 241-301.
Burwell, Wayne G.; and Quickle, Charles F., Jr., to United Aircraft Corporation. Liquid fuel gas dynamic mixing laser. 3,694,770, 9-26-72, Cl. 331-94.500.
Burwell, Wayne Gregory: *See—*
Bronfin, Barry Robert; Burwell, Wayne Gregory; and Meinzer, Richard August, 3,701,045.
Burwen, Richard S. Dynamic noise filter having means for varying cutoff point. 3,678,416, 7-18-72, Cl. 333-17.000.
Bury, Allen J., to Molex Products Company. Electrical connector assembly. 3,662,321, 5-9-72, Cl. 339-92.
Bury, Allen J., to Molex Incorporated. Multi-conductor electrical socket and method of making the same. 3,668,615, 6-6-72, Cl. 339-206.00r.
Burzan, Vernon J.: *See—*
Hall, William D.; and Burzan, Vernon J., 3,677,623.
Lee, Charles K.; and Burzan, Vernon J., 3,677,154.
Burzan, Vernon J., to KMS Industries, Inc. Identification card locator assembly. 3,677,639, 7-18-72, Cl. 355-76.000.
Burzenski, Ralph A. Wheeled foot-exercising device with hand grips. 3,672,670, 6-27-72, Cl. 272-79.00r.
Bus & Car Company S.A.: *See—*
Scheitel, Neal W., 3,698,464.
Busam, Donald H., to Interlake Steel Corporation. Skid top lifter. 3,658,374, 4-25-72, Cl. 294-88.
Busatto, Vinicio, to Minnesota Mining and Manufacturing Company. Photosensitive material for radiography. 3,705,807, 12-12-72, Cl. 96-84.00r.
Busby, Edwin S., Jr., to Compex Corporation. Variable light transmitting filter for cameras. 3,700,314, 10-24-72, Cl. 350-314.000.
Busby, Howard G. T., to Lodge-Cottrell Limited. Electro-precipitation. 3,686,825, 8-29-72, Cl. 55-5.000.
Busby, Hubbard Taylor, Jr., to Martin-Marietta Corporation. Hono azo pyrazolone dyes having thiosulfate group. 3,639,386, 2-1-72, Cl. 260-163.
Busby, Julian M.: *See—*
Owen, Robert L.; and Busby, Julian M., 3,651,395.
Busby, Llewellyn D.: *See—*
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Busby, Lloyd H. Combination ladder and hoist apparatus. 3,690,282, 9-12-72, Cl. 114-43.500.
Busby, Samuel J. Weighted whirling type exercising device. 3,679,204, 7-25-72, Cl. 272-81.000.
Busby, Terence Stanley, to National Research Development Corporation. Glass furnaces. 3,684,262, 8-15-72, Cl. 263-40.00r.
Busch, Bernhard; Funk, Hans; and Teltschik, Walter. Process for smooth operation of burner in production of acetylene-containing gas. 3,689,586, 9-5-72, Cl. 260-679.00r.
Busch, Carl Wilhelm; and Scheer, Kurt, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for displaying bearing markers on a radar screen. 3,648,283, 3-7-72, Cl. 343-5.
Busch, Claus Wyman, Jr., to American Cyanamid Company. Fire-retardant finish for nylon. 3,639,232, 2-1-72, Cl. 252-8.1.
Busch, Edward G., to Adtrol Electornics, Inc. Digital translator. 3,649,823, 3-14-72, Cl. 235-155.
Busch, Georg; and Wachter, Peter, to Verein zur Forderung der Feslkorperphysik an der Edgenossischen Technischen Hochschule. Device for producing multi-color television images by magnetic field control of a particular luminescent screen. 3,697,688, 10-10-7, Cl. 178-5.40r.
Busch, Gerhard: *See—*
Breitschwerdt, Werner; Andres, Rudolf; and Busch, Gerhard, 3,671,994.
Busch, Hans Jochen, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Multi-spooling machine with interchangeable units. 3,682,404, 8-8-72, Cl. 242-35.50r.
Busch, Harry. Dressing device for the dressing of profile grinding wheels. 3,683,884, 8-15-72, Cl. 125-11.00r.
Busch, Heinz F. K.: *See—*
Bogenberger, Richard; Busch, Heinz F. K.; Kroy, Walter; and Mehnert, Walter E., 3,702,378.
Busch, John F.: *See—*
Rue, Charles V.; and Busch, John F., 3,686,800.
Busch, Josef: *See—*
Meeussen, Louis Achilles; Stievenart, Emile Frans; Schranz, Karl-Wilhelm; Busch, Josef; Froch, Siegfried; and Bruck, Herbert, 3,662,665.
Busch, Karl: *See—*
Brummer, Hans; and Busch, Karl, 3,665,439.
Busch, Michael D., to Call-A-Computer, Inc., mesne. Message buffering communication system. 3,676,846, 7-11-72, Cl. 340-146.1ba.
Busch, Norbert: *See—*
Mauvernay, Roland Yves; Busch, Norbert; Moleyre, Jacques; and Simond, Jacques, 3,637,680.
Mauvernay, Roland Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,676,496.
Mauvernay, Roland-Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,663,566.
Mauvernay, Roland-Yves; and Busch, Norbert, 3,705,244.

Busch, Raymond W. Electric motor. 3,665,227, 5-23-72, Cl. 310-46.000.

Busch, Theodore N., to Caswell Equipment Company, Incorporated. Signalling system. 3,653,025, 3-28-72, Cl. 340-323.

Busch, Thomas W., to Appleton Papers, Inc., mesne. Method and apparatus for manufacture of dual coated sheet with pressure rupturable materials. 3,632,378, 1-4-72, Cl. 117-36.2.

Busch, Thomas W., to Appleton Papers, Inc., mesne. Method for the manufacture of double coated sheets with pressure-rupturable materials. 3,705,049, 12-5-72, Cl. 117-36.900.

Busch, Walter; Kramer, Heinz; Lind, Erwin; and Messner, Dieter, to Kalle Aktiengesellschaft. Process for coating the surface of a material. 3,697,303, 10-10-72, Cl. 117-37.0le.

Busch, Walter; and Schwarzer, Franz, to Kalle Aktiengesellschaft. Process for the preparation of a semipermeable membrane from polymerized β-lactams unsubstituted at the nitrogen atom. 3,703,570, 11-21-72, Cl. 264-41.000.

Busch, William Larry, to Coonley, Avery, School, Inc. Student learning spaces. 3,694,933, 10-3-72, Cl. 35-60.000.

Busch, Wolfram: *See—*
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Buschbom, Floyd E., to Van Dale Corporation. Adjustable discharge means. 3,651,910, 3-28-72, Cl. 193-17.

Buschbom, Floyd E., to VanDale Corporation. Wall cleaner. 3,651,960, 3-28-72, Cl. 214-17.

Buschbom, Floyd E.; Hansen, Glen D.; and Johnson, Roger L., to Van Dale Corporation. Livestock feeding apparatus. 3,675,758, 7-11-72, Cl. 198-110.000.

Buschbom, Floyd E.; and Johnson, Roger L., to Veda, Inc. Material handling apparatus with diverter means. 3,695,234, 10-3-72, Cl. 119-52.00b.

Buscher, Judy G. Face mask. 3,678,929, 7-25-72, Cl. 128-146.600.

Buscher, Richard G., to Lear Siegler, Inc. Automatic control system with a digital computer. 3,688,099, 8-29-72, Cl. 235-153.000.

Buschhoff, Max, to Schering A.G. Method of making hexaorganodiplumbanes. 3,671,561, 6-20-72, Cl. 260-437.00r.

Buschman, Elmer W., 2/3 to Buschman, Kenneth and 1/3 to Price, William R. Electrostatic precipitator. 3,678,653, 7-25-72, Cl. 55-2.000.

Buschman, Kenneth: *See—*
Buschman, Elmer W., 3,678,653.

Buschmann, Gerhard, to Jagenberg-Werke AG. Apparatus for braking, overlapping and stacking sheets of material. 3,684,277, 8-15-72, Cl. 271-46.000.

Buschmann, Hans, to Telesco Brophey Limited. Sheath for umbrella. 3,670,749, 6-20-72, Cl. 135-33.00c.

Buschmann, Klaus; and Meyer, Walter, to Siemens Aktiengesellschaft. Program control mechanism for a long distance communication exchange installation controlled by a concentratedly stored program. 3,636,522, 1-18-72, Cl. 340-172.5.

Buschow, Kurt Heinz Jurgen; and Westendorp, Frans Frederik, to U.S. Philips Corporation. Method of manufacturing a permanent magnet. 3,701,695, 10-31-72, Cl. 148-103.000.

Busdiecker, Robert A.; Rapp, James E.; and Babcock, Clarence L., to Owens-Illinois, Inc. Mirror blank core and method of making. 3,661,546, 5-9-72, Cl. 65-33.

Buse, Frederic W., to Ingersoll-Rand Company. Centrifugal pump having leakage collection and draining means. 3,680,976, 8-1-72, Cl. 415-110.000.

Buser, Arnold S.: *See—*
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Braden, William D.; Marshall, Richard P.; Greenhorn, Richard J.; and Buser, Arnold S., 3,698,233.

Buser, Fritz, AG Maschinenfabrik: *See—*
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Bush Boake Allen Limited: *See—*
Curtis, Anthony John; Jaggers, Brian George; and Janes, John Francis, 3,647,847.
Janes, John Francis; Jaggers, Brian George; and Curtis, Anthony John, 3,673,120.

Bush, Clarence C., to United States of America, Army. Flexible cams. 3,680,406, 8-1-72, Cl. 74-368.0fs.

Bush, Clarence C., to United States of America, Army. Temperature and velocity apparatus for moving fluids. 3,706,228, 12-19-72, Cl. 73-343.00r.

Bush, Donald M., to United States of America, Atomic Energy Commission. Thermal battery having a thermal reservoir pellet. 3,677,822, 7-18-72, Cl. 136-83.005.

Bush, Elmer Crosby, to Associated Spring Corporation. Filter bag clamp. 3,653,103, 4-4-72, Cl. 24-270.

Bush, Eric Langley: *See—*
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Bush, George L., to Bunker-Ramo Corporation, The. Device for providing controlled movement. 3,667,306, 6-6-72, Cl. 74-125.5.

Bush, Harold Jesse, to Thomas & Betts Corporation. Stripping apparatus. 3,673,894, 7-4-72, Cl. 81-9.510.

Bush, Henry J., to United States of America, Air Force. Programmed paramagnetic tuning radio receiver using larmor resonance. 3,641,440, 2-8-72, Cl. 325-383.

Bush, James A.: *See—*
Nettleton, Donald E., Jr.; Bush, James A.; and Bradner, William T., 3,663,691.

Bush, James S.; and Mason, Robert S. Method and apparatus for forming foam material. 3,665,792, 5-30-72, Cl. 83-1.

Bush, John L.; and Milligan, Carl William, to Du Pont de Nemours, E. I., and Company. Process for preparing ionomers. 3,649,578, 3-14-72, Cl. 260-23.

Bush Manufacturing Company: *See—*
Taul, Everett G., 3,631,977.

Bush, Richard P., to Midland Silicones Limited. Siloxazanes compositions and processes thereof. 3,641,089, 2-8-72, Cl. 260-448.2.

Bush, Richard P.; and Thomas, Bryan. Compounds containing silicon and nitrogen. 3,655,615, 4-11-72, Cl. 260-46.5.

Bush, Richard Paul; and Thomas, Bryan, to Midland Silicones Limited. Preparation of cyclic nitrogen-containing organosilicon compounds. 3,655,711, 4-11-72, Cl. 260-448.2.

Bush, Richard Paul; and Thomas, Bryan, to Dow Corning Limited. Organosilicon compounds containing silazane and siloxane linkages. 3,677,977, 7-18-72, Cl. 260-47.00r.

Bush, Robert E.: *See—*
Degelleke, Gerrit; and Bush, Robert E., 3,635,570.
Degelleke, Gerrit; and Bush, Robert E., 3,682,031.

Bush, Robert G.; and Hannon, Gilbert H., to Schreiber, L. D., Cheese Co., Inc. Weighing and labeling system. 3,650,773, 3-21-72, Cl. 99-171.

Bush, Stanley E.; Olson, David T.; and Saltus, George E., to Bell Telephone Laboratories, Incorporated. Dial selective wideband intercommunication system. 3,649,761, 3-14-72, Cl. 179-2.

Bush, Stanley E.; Crouse, Parker E.; and Saltus, George E., to Bell Telephone Laboratories, Inc. Key telephone system having wideband capability. 3,684,833, 8-15-72, Cl. 179-2.0tv.

Bush, Stephen Frederick; Shires, Michael John; Johnson, Frank Williams; and Williams, Richard Anthony, to Imperial Chemical Industries Limited. Manufacture of adiponitrile. 3,707,547, 12-26-72, Cl. 260-465.800.

Bush, Vannevar. Engine sealing. 3,675,738, 7-11-72, Cl. 184-18.000.

Bush, Walter M., to Eastman Kodak Company. Developers for diffusion transfer film units. 3,647,436, 3-7-72, Cl. 96-3.

Bush, Walter R.: *See—*
Ambler, Edward Curtis; Bush, Walter R.; and Scoville, Andrew E., 3,668,471.

Bush, William P.: *See—*
Gogarty, William B.; and Bush, William P., 3,687,609.

Bush, William R. Saw assembly for sheet material. 3,675,526, 7-11-72, Cl. 83-676.000.

Bushey, Donald F., to United States of America, Army. Extractor for primer cartridge cases. 3,677,133, 7-18-72, Cl. 89-27.00b.

Bushick, Ronald D., to Sun Oil Company. Isomerization of hydrindacenes. 3,637,882, 1-25-72, Cl. 260-668.

Bushin, Leonid Mikhailovich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedin, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Jury Dmitrievich; Yasjukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny iktorovich, 3,654,756.

Bushman, Bliss M.; and Whistler, Wayne J., to Perkin-Elmer Corporation, The. Sensitivity control for mass spectrometer. 3,648,047, 3-7-72, Cl. 250-41.9.

Bushman, Bliss M.; and Schultz, William D., to Perkin-Elmer Corporation, The. System for integrating gunsight reticle image and image received by a camera. 3,671,100, 6-20-72, Cl. 350-19.000.

Bushman, John Andrew, to Pye Limited. Vaporisers for medical respirators. 3,659,601, 5-2-72, Cl. 128-188.

Bushman, Ronald C.; Rickard, Donn J.; Webb, John D.; Alexander, L. Bruce; and Church, Cleveland B., to Brown International Corporation. Means for sectionizing citrus fruit. 3,643,716, 2-22-72, Cl. 146-3.

Bushman, Ronald C., to Brown International Corporation. Apparatus for extracting citrus peel oil from whole fruit. 3,707,176, 12-26-72, Cl. 83-2.

Bushnell, Clifford B., to Eastman Kodak Company. Openable cartridge for facilitating egress and ingress of strip material. 3,645,385, 2-29-72, Cl. 206-52.

Bushnell, David; Fuller, Roger L.; and Oliver, Joseph J., to Raytheon Company. Highway vehicle sensor system. 3,641,569, 2-8-72, Cl. 340-38.

Bushnell, Dwight J.; and Jensen, Billy M., to Bio-Logics, Inc. Identification assembly and method. 3,656,247, 4-18-72, Cl. 40-21.

Bushnell, Eldon W.: *See—*
Mulcahy, Harry W.; Bushnell, Eldon W.; and Kaim, John W., 3,679,028.

Bushnell, James D.: *See—*
Biribauer, Frank A.; and Bushnell, James D., 3,658,688.

Bushnell Optical Corporation: *See—*
Akin, Alfred A., Jr.; and Prentice, Russell E., 3,642,345.

Bushway, Kenneth C.: *See—*
Spolsino, Peter P.; Riselli, Nicholas V.; and Bushway, Kenneth C., 3,645,315.
Busi, Ettore. Device for applying liners of thermoplastic material to closure caps or the like. 3,674,393, 7-4-72, Cl. 425-110.000.
Busi, Ettore. Machine for the deposition of measured amounts of softened thermoplastic material into closure caps. 3,702,148, 11-7-72, Cl. 141-67.000.
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Muraro, Angelo; and Busi, Giovanni, 3,665,849.
Busian, Vincent V., to General Electric Company. Dynamoelectric machine and method and apparatus for use in manufacturing same. 3,681,836, 8-8-72, Cl. 29-205.00d.
Busick, Richard Cobbold; and Masucci, Eugene Daniel, to Bell Telephone Laboratories, Incorporated. Electronic route translator. 3,655,921, 4-11-72, Cl. 179-918.
Businelli, Pietro, to GTE Automatic Electric Laboratories Incorporated. Self-regulated D. C. converter. 3,660,750, 5-2-72, Cl. 321-2.
Busing, Walter: *See—*
Weist, Martin; and Busing, Walter, 3,644,190.
Busing, Walter; and Gebauer, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for the noise-compensated measurement of high D.C. currents. 3,691,460, 9-12-72, Cl. 324-126.000.
Buske, Ervin. Pulling post base. 3,698,230, 10-17-72, Cl. 72-386.000.
Buske, Norman L. Internal pressure engine. 3,692,005, 9-19-72, Cl. 123-51.00r.
Busker, Leroy H.; and Mosher, Robert J., to Beloit Corporation. Microwave moisture sensing system and method. 3,681,684, 8-1-72, Cl. 324-58.50a.
Busker, Leroy H.; and Mosher, Robert J., to Beloit Corporation. Microwave moisture sensing system and method. 3,694,737, 9-26-72, Cl. 324-58.50a.
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Busking, Bob E.: *See—*
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Buskirk, Robert E.: *See—*
Bunting, William W., Jr.; Buskirk, Robert E.; Hogan, John P.; and Mahla, Elbert M., 3,704,975.
Busler, Willard LeRoy, to AMP Incorporated. Covering for a connecting member. 3,641,641, 2-15-72, Cl. 29-33.
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Busler, William R., to Phillips Petroleum Company. Lactone polymerization with a dicarboxylic acid-water initiator. 3,678,069, 7-18-72, Cl. 260-484.00a.
Buslik, Walter S.; and Chou, Albert S., to International Business Machines Corporation. Suspension system for holding a slider. 3,701,610, 10-31-72, Cl. 248-204.000.
Buss A.G.: *See—*
Franz, Peter; and Maier, Andreas, 3,643,874.
Gresch, Walter; Pilch, Horst; and Ruttener, Erwin, 3,647,493.
Henschel, Werner, 3,650,511.
Koller, Hans; and Frey-Portner, Urs, 3,704,573.
Munch, Hans Joachim, 3,697,387.
Sutter, Fritz; and Maier, Andreas, 3,669,416.
Buss, Wolfgang Joseph. Electronic switch. 3,666,966, 5-30-72, Cl. 307-117.
Busschots, Armand August Florent: *See—*
Brepoels, Joseph Rene; and Busschots, Armand August Florent, 3,671,217.
Busse, Curtis T. Endless tread for off-highway vehicles, having monrigid elements. 3,637,266, 1-25-72, Cl. 305-35.
Busse, Ewald A. Gasket with passageway and vacuum blade for introducing air into barrel of carburetor. 3,643,641, 2-22-72, Cl. 123-119.
Busse, Fritz, to Bremshey & Co., Firma. One-column-table. 3,640,228, 2-8-72, Cl. 108-6.
Busse, Oswald; and Klesper, Hugo, to Passavant-Werke. Clarifying apparatus. 3,682,322, 8-8-72, Cl. 210-530.000.
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Bussey, Marlin G.: *See—*
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Bussink, Jan, to Akzo, N.V. Poly (2,6-diphenylparaphenyleneoxide) fiber-reinforced silicone molding compositions. 3,665,051, 5-23-72, Cl. 260-824.
Buster, James R.; and Apperson, Charles H., to Union Carbide Corporation. Spandex lubricant composition. 3,634,236, 1-11-72, Cl. 252-8.9.
Busti, Benito: *See—*
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Bustos, Rafael Thomas, to Southern Cross Industries, Inc. Adjustable merchandise support with spaced, molded shelves. 3,664,274, 5-23-72, Cl. 108-144.
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Bustraan, Daniel J.; Gossie, Mijo A.; Sundstrom, Roy N.; and Wisner, William R. Article handling apparatus and method. 3,690,527, 9-12-72, Cl. 225-4.000.
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Buswell, Wallace H., 1/2 to Anderson, Clare E. Eccentric acting floating-controlled pinch-valve vessel filling assembly. 3,670,751, 6-20-72, Cl. 137-1.000.
Butcher, Alvin E., to Phillips Petroleum Company. Neck forming collet having alternate inverted wedge-shaped jaws. 3,632,264, 1-4-72, Cl. 425-326.
Butcher, Alvin E., to Phillips Petroleum Company. Method for multiple direction pinch-off. 3,663,522, 5-16-72, Cl. 264-94.
Butcher, Howard J.; and Simpson, Edgar Alan, to Grace, W. R., & Co. Platelet silica, its production and uses. 3,681,017, 8-1-72, Cl. 23-182.000.
Butcher, James; Gyllstrom, Richard G.; and Lamb, William Doyle, to Cash, A. W., Valve Manufacturing Corporation. Backflow preventer. 3,670,760, 6-20-72, Cl. 137-218.000.
Buteau, Roland N.; and Taylor, Ruel E., Jr., to Scott Paper Company. Method of manufacturing magnetic belts. 3,654,011, 4-4-72, Cl. 156-204.
Buterbaugh, Noel L., to Microbiological Associates, Inc. Petri dish. 3,649,463, 3-14-72, Cl. 195-139.
Buteux, Richard Harold Barclay, to Imperial Chemical Industries Limited. Biaxially orienting crystallized polyethylene-1:2-diphenoxyethane-4:4'-dicarboxylate. 3,644,610, 2-22-72, Cl. 264-289.
Buteux, Richard Harold Barclay, to Imperial Chemical Industries, Limited. Biaxially oriented polyethylene-1: 2-diphenoxyethane-4:4'-dicarboxylate sheets. 3,700,540, 10-24-72, Cl. 161-165.000.
Buth, Roy C.; and Schroeder, Arthur F., to United States of America, Navy. Flechette assembly machine. 3,673,047, 6-27-72, Cl. 156-563.000.
Butherus, Alexander Duane; and Newby, Kenneth Russ, to Bell Telephone Laboratories, Incorporated. Double layer capacitor with liquid electrolyte. 3,700,975, 10-24-72, Cl. 317-230.000.
Butler, Albert Q.: *See—*
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Butler, Charles T.; and Sturm, Bernard J., to United States of America, Atomic Energy Commission. Method for the production of single crystals. 3,634,033, 1-11-72, Cl. 23-201.
Butler, Cornelius, Jr. Reel trailer. 3,690,491, 9-12-72, Cl. 214-506.000.
Butler, David B., to Kendall Company, The. Headrest with adhesive attachment. 3,691,005, 9-12-72, Cl. 161-167.000.
Butler, David H.: *See—*
Miertschin, Jerrold L.; and Butler, David H., 3,663,929.
Butler, Delbert M. Self-dumping backhoe bucket. 3,659,730, 5-2-72, Cl. 214-146.
Butler, Donald E.: *See—*
DeWald, Horace A.; and Butler, Donald E., 3,660,425.
Butler, Eugene B.; Fak, Ivan A.; and Line, Lawrence L., to General Tire & Rubber Company, The. Hydrophilic-poromeric foam method of making, and articles made therefrom. 3,644,229, 2-22-72, Cl. 260-2.5.
Butler, Frank W. Boat structure. 3,648,310, 3-14-72, Cl. 9-6.
Butler, Fred C.; Johnson, Nathaniel M.; and Wallace, Clifford G., to Pacific Instruments Company. Sensor for ground fault interrupter apparatus. 3,683,302, 8-8-72, Cl. 336-83.000.
Butler, Gerald D.: *See—*
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Butler, Gerald V., Jr.: *See—*
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Roth, Charles F., Jr.; and Butler, Gordon C., 3,682,137.
Butler, Henry G.; and Weise, Irvin B., to Anderson, Greenwood & Co. Adjustable rotary damper. 3,651,903, 3-28-72, Cl. 188-290.
Butler, Hymie, to Bendix Corporation, The. Feedrate servo control system. 3,665,499, 5-23-72, Cl. 318-571.000.
Butler, Jack M.: *See—*
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Butler, James, to Canadian General Electric Limited, mesne. Operating mechanism for a multiple interrupter unit circuit breaker. 3,632,929, 1-4-72, Cl. 200-145.
Butler, James, to Weathershields Limited. Opening roof for vehicles. 3,666,318, 5-30-72, Cl. 296-137.
Butler, James L. Rotary engine. 3,697,203, 10-10-72, Cl. 418-173.000.

Butler, James W. Flexible joint including braking means. 3,666,299, 5-30a72, Cl. 287-94.
Butler, James W., to Laurentian Concentrates Limited. Foam protection of plant life. 3,669,898, 6-13-72, Cl. 252-307.
Butler, Jaquith Gould, to RCA Corporation. Waveform generator. 3,689,914, 9-5-72, Cl. 340-347.0da.
Butler, Keith H.: *See—*
Thomas, Martha J. B.; Dale, Ernest A.; and Butler, Keith H., 3,654,173.
Butler, Kenneth, to Pfizer, Inc. Cephalosporins and process for their preparation. 3,635,961, 1-18-72, Cl. 260-243.
Butler, Kenneth, to Pfizer Inc. Aryl esters of α-carboxyarylmethylpenicillins. 3,679,801, 7-25-72, Cl. 424-271.000.
Butler, Kenneth; and Hamanaka, Seiichi, to Pfizer Inc. Esters of α-carboxybenzylpenicillin. 3,681,342, 8-1-72, Cl. 260-239.100.
Butler, Kenneth, to Pfizer Inc. Crystalline alkali metal salts of α-carboxybenzylpenicillin and process therefor. 3,697,506, 10-10-72, Cl. 260-239.100.
Butler, Kenneth; Conover, Lloyd H.; and Woodward, Robert B., to Pfizer Inc. 2-[(5'-(3'-and/or 4'-substituted) isoxazolyl) aminomethyl]-3,4,10-trioxo-1,2,3,4,4,9,9, 10-octahydroanthracenes and related compounds. 3,699,117, 10-17-72, Cl. 260-307.500.
Butler, Lawrence, to Leyland Gas Turbines Limited. Gas turbine with bearing cooling means. 3,692,146, 9-19-72, Cl. 184-6.100.
Butler, Lawrence W.: *See—*
Butler, Lawrence W.; and Banks, Roger (said Banks assor. to said), 3,637,299.
Butler, Lawrence W.; and Banks, Roger, said Banks assor. to said Butler, Lawrence W. Optical printer. 3,637,299, 1-25-72, Cl. 352-85.
Butler, Le Roy O. Portable folding steps and landing for a mobile home and the like. 3,693,754, 9-26-72, Cl. 182-86.000.
Butler, Lee D.: *See—*
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Grey, Donald M.; Butler, Lee D.; Welker, Jerry W.; and Crane, Jack W., 3,706,389.
Butler, Lloyd V. Water counterweight system for theatrical props and curtains. 3,690,617, 9-12-72, Cl. 254-141.000.
Butler, Louis L. Optical wheel balancer. 3,686,955, 8-29-72, Cl. 73-457.000.
Butler, Louise; Dobkin, Lloyd; and Ellner, J. Robert. Merchandise display device. 3,687,090, 8-29-72, Cl. 108-6.000.
Butler Manufacturing Company: *See—*
Bakker, Donavon L.; and Miller, Walter L., 3,695,415.
Byerley, Thomas J.; and Christie, Howard W., 3,663,489.
Conway, Maurice A.; Perkins, Carl C., Jr.; and Bellem, Norman A., 3,669,051.
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Peat, Robert W., 3,706,442.
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Butler, Marlow D., to Tektronix, Inc. Orange-reflective graticule scale for cathode ray tube. 3,683,225, 8-8-72, Cl. 313-92.0sc.
Butler National Corporation: *See—*
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Hobbs, James; and Carocari, John B., 3,644,722.
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Perkins, Earl Stuart, 3,696,425.
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Butler, Robert G.; Carter, Don E.; and Latinen, George A.; deceased (by Latinen, May V.; administratrix), to Monsanto Company. Flush cooling of shaft sealing screw means. 3,700,247, 10-24-72, Cl. 277-28.000.
Butler, Robert John, to RCA Corporation. Color phaser for television video signals. 3,647,965, 3-7-72, Cl. 178-69.5.
Butler, Roger M.: *See—*
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Butler, Thomas W. Tension-torsion testing machine. 3,664,182, 5-23-72, Cl. 73-93.000.
Butler, Vaughn H.: *See—*
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Butora, John A.: *See—*
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Butriss, Albert T., to Eaton Yale & Towne, Inc. Fastener driving apparatus. 3,672,029, 6-27-72, Cl. 29-243.560.
Butscher, Karlheinz, to Carl Zeiss-Stiftung; d/b/a Zeiss, Carl. Interpolation means for displacement measurement. 3,675,238, 7-4-72, Cl. 340-347.0sy.
Butschko, Gerhard: *See—*
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Butt, Alan G.: *See—*
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Butt, Anthony John: *See—*
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Dederra, Carl-Helmut; and Butter, Karl, 3,692,637.
Butter, Karl, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Arrangement of cooling channels for rocket engine combustion chambers. 3,678,802, 7-25-72, Cl. 90-11.00c.
Butter, Karl; Wittich, Willibald; and Theiss, Armin, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Method for incorporating strength increasing filler materials in a matrix. 3,686,081, 8-22-72, Cl. 204-16.000.
Butter, Karl, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Method and arrangement for installing measuring feelers. 3,696,676, 10-10-72, Cl. 73-343.00r.
Butter, Karl; and Wittich, Willibald, to Messerschmitt Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Apparatus for partial electroplating including an electroplating head. 3,697,405, 10-10-72, Cl. 204-275.000.
Butter, Stephen A.: *See—*
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Butter, Stephen A., to Mobil Oil Corporation. Method of direct generation of manganese (III) solution from manganese (II) solution. 3,647,835, 3-7-72, Cl. 260-429.
Butter, Stephen A., to Mobil Oil Corporation. Selective carbonylation of olefinically unsaturated hydrocarbons using palladium-phosphine catalysts promoted with tin salts. 3,700,706, 10-24-72, Cl. 260-410.90r.
Butterfield, Boydston Lewis, to American Cyanamid Company. Fluorescent compositions. 3,671,451, 6-20-72, Cl. 252-301.200.
Butterfield, James L.: *See—*
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Butterfield, John L.; and Brissey, George E., to General Electric Company. Continuous, self-pumping lubrications system for splined shafts. 3,637,049, 1-25-72, Cl. 184-6.12.
Butterfield, Max E., to Caterpillar Tractor Company. Anti-slip safety surface. 3,640,035, 2-8-72, Cl. 52-177.
Butterfield, Robert J.: *See—*
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Butterfield, William J. H., to Beecham Group Limited. Method of lowering abnormally high level of blood urea. 3,639,628, 2-1-72, Cl. 424-320.
Butterworth, Donald J.: *See—*
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Butterworth, Philip, to Butterworth Hydraulic Developments Limited. Fluid pressure operated motors. 3,643,548, 2-22-72, Cl. 91-298.
Buttgens, Walter: *See—*
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Buttke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., to Globe-Union, Inc. Machine for manufacturing electric storage batteries. 3,668,761, 6-13-72, Cl. 29-204.00d.
Buttke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., to Globe-Union Inc. Process and machine for manufacturing electric storage batteries. 3,684,088, 8-15-72, Cl. 209-75.000.
Buttke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., to Globe-Union Inc. Process and machine for manufacturing electric storage batteries. 3,695,939, 10-3-72, Cl. 136-176.000.
Buttner, Hildegard: *See—*
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Buttner, Horace J.: *See—*
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Buttner, Horace J. Automatic drill chuck and split collet. 3,659,863, 5-2-72, Cl. 279-4.
Button, Calvin L.; and Woods, Waldemar E., to Grace, W. R., & Co. Process for preparing a parison for blow molding. 3,663,672, 5-16-72, Cl. 264-96.000.
Buttriss, Albert T.; and Van Niel, Clarence R., to Eaton Yale & Towne, Inc., mesne. Attachment clip device. 3,636,593, 1-25-72, Cl. 24-73.

Buttriss, Albert T., to Eaton Corporation. Cartridge device for fasteners and the like. 3,672,738, 6-27-72, Cl. 312-71.000.
Butts, Davis S.: *See—*
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Butts, Earl E., to Clark Equipment Company. Mechanism for predicting food temperatures. 3,690,175, 9-12-72, Cl. 73-343.00r.
Butts, Edward E., to Clark Equipment Company. Food product quick freezing method and apparatus. 3,664,146, 5-23-72, Cl. 62-63.000.
Buttweiler, Thomas B.; and Titus, Joseph S., to Honeywell Inc. Optical detector with radiant energy absorbing chamber. 3,648,056, 3-7-72, Cl. 250-239.
Butuzov, Anatoly Akimovich: *See—*
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Butzler, George J.: *See—*
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Butzow, Neil W.; and Harris, Bernard, to Rex Chainbelt Inc. Ball and socket bearing. 3,700,295, 10-24-72, Cl. 308-72.000.
Buus, Robert George, to Bell Telephone Laboratories, Incorporated. Pulsed two-tone test signal generator for linear amplifiers. 3,679,984, 7-25-72, Cl. 330-2.000.
Buvelot, Jacques. Cheese-grating device. 3,642,045, 2-15-72, Cl. 146-60.
Buxton, Richard L.; and Miller, George N., to Care Electronics, Inc. Physiological monitoring system. 3,646,606, 2-29-72, Cl. 128-2.06.
Buyak, William P., to North American Philips Corporation. Timing circuit with multiple time constants and switching means to connect and disconnect said time constants selectively. 3,694,672, 9-26-72, Cl. 307-293.000.
Buyanov, Roman Alexeevich: *See—*
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Buzano, Michel, to Societe Rhodiaceta. Process for the manufacture of high-bulk yarn. 3,678,549, 7-25-72, Cl. 28-72.12.
Buzano, Michel. Fluid texturizing apparatus and method of use. 3,683,608, 8-15-72, Cl. 57-77.300.
Buzano, Michel, to Societe Rhodiaceta. Process for producing a novel textured yarn. 3,683,611, 8-15-72, Cl. 57-157.0ts.
Buzano, Michel, to Societa Rhodiaceta. Apparatus and method for producing synthetic torque yarn. 3,683,612, 8-15-72, Cl. 57-34.00r.
Buzard, Joseph Burton; Coleman, Kenneth W.; and Zelenz, Martin Leroy, to Sylvania Electric Products, Inc. Method of making resistor. 3,648,363, 3-14-72, Cl. 29-610.
Buzby, George C., Jr.: *See—*
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Buzby, George C., Jr.; and Smith, Herchel, to American Home Products Corporation. Process for ethynylating 17-keto steroidal phenols. 3,646,076, 2-29-72, Cl. 260-397.5.
Buzby, George C., Jr.; Walk, Charles R.; and Smith, Herchel, to American Home Products Corporation. A-nor-13-ethyl-17-hydroxy-A-norgon-3-en-2-one. 3,686,317, 8-22-72, Cl. 260-586.00h.
Buzby, George C., Jr.; Greenspan, George; and Buhle, Emmett L., to American Home Products Corporation. Asymmetric reduction of seco-steroids. 3,697,379, 10-10-72, Cl. 195-51.00r.
Buzby, Robert Y.; Hammang, John T.; Hudak, Ronald A.; and Osvold, Harry C., to Hauenstein & Burmeister, Inc. Panel joining structures. 3,632,146, 1-4-72, Cl. 287-20.924.
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Buzzard, Clair A.; Pasternack, Gerald P.; and Saltzberg, Burton R., to Bell Telephone Laboratories, Incorporated. Multiple data set which time-shares circuitry among a plurality of channels. 3,649,759, 3-14-72, Cl. 179-2.
Buzzard, Clair A.; and Saltzberg, Burton R., to Bell Telephone Laboratories, Incorporated. Digital filter receiver for frequency-shift data signals. 3,689,844, 9-5-72, Cl. 325-320.000.
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Buzzell, Harold O., to Polaroid Corporation. I.D. card laminar structures and processes for making same. 3,655,494, 4-11-72, Cl. 161-5.
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Buzzolini, Mario G.; and Manning, Robert E., to Sandoz-Wander, Inc. 2-Phenylacetylbenzoic acid in the treatment of inflammation. 3,658,964, 4-25-72, Cl. 424-317.
Buzzolini, Mario G., to Sandoz-Wander, Inc. 1-p-(τ-aminoalkyl) phenyl-cyclohexanes, cyclohexenes and cyclohexanols. 3,674,807, 7-4-72, Cl. 260-326.50m.
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Byam, Erwin B.; and Klein, Gregory L., to Textron, Inc. Transfer mechanism. 3,633,766, 1-11-72, Cl. 214-1.
Byars, John C. Electrical connector for coupling an external receiver to a mobile whip antenna. 3,702,480, 11-7-72, Cl. 343-715.000.
Bycroft, William R. Incinerator. 3,643,610, 2-22-72, Cl. 110-8.
Bydal, Bruce Alfred, to Du Pont de Nemours, E. I., and Company. Apparatus for dividing and recombining flow. 3,640,308, 2-8-72, Cl. 137-561.
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Byers, Charles A.; and Becker, Robert A., to Collins Radio Company. Electromagnetic motor reversing control. 3,639,821, 2-1-72, Cl. 318-282.
Byers, Clifton A.: *See—*
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Byers, James R. Hydraulic pressure feed-back control valve. 3,636,978, 1-25-72, Cl. 137-625.26.
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Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Polyakov, Boris Nikolaevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich, to Uralsky Zaro Tyazhelogo Mashinostroenia Imeni S. Ordzhonikidze. Secondary cooling system for continuous casting plants. 3,688,833, 9-5-72, Cl. 164-283.000.
Byland, Henry L., to Futuristic Building Products Inc. Expanding nail. 3,645,163, 2-29-72, Cl. 85-13.
Byland, Henry L., to Futuristic Building Products Inc. Door frame. 3,690,082, 9-12-72, Cl. 52-213.000.
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Bylicki, Richard A. Door construction. 3,636,659, 1-25-72, Cl. 49-383.
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Bylund, Linton D., to Reynolds Metals Company. Aluminous metal articles and method. 3,691,972, 9-19-72, Cl. 113-120.00h.
Bylund, Per-Ake; Farkas, Tibor; and Andersson, Nils Eric, to Allmanna Svenska Elektriska Aktiebolaget. Semiconductor device with semiconductor element arranged side by side and provided with hollow coaling bodies. 3,703,668, 11-21-72, Cl. 317-23.0ar.
Bynagte, Peter W., to Westgate-California Foods, Inc. Process of extracting meat from crustaceans particularly shrimp. 3,705,040, 12-5-72, Cl. 599-111.000.
Bynder, Samuel Fred; and Swimmer, Milton I. Bike jump. 3,663,015, 5-16-72, Cl. 272-1.00r.
Byrd, Carl; and Mueller, Martin, to Owens-Illinois, Inc. Process and apparatus for dispensing and filling containers. 3,659,744, 5-2-72, Cl. 221-1.
Byrd, Carlisle O., Jr. Furnace wall construction. 3,687,093, 8-29-72, Cl. 110-1.00a.
Byrd, Chester L.; and Blackwell, Randal L., to Air Cargo Equipment Corporation. Cargo container for aircraft. 3,692,203, 9-19-72, Cl. 220-1.500.
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Byrd, Norman R., to McDonnell Douglas Corporation, mesne. Polymeric materials. 3,645,999, 2-29-72, Cl. 260-93.5.
Byrd, Paul W. Prefabricated waste receiving unit. 3,633,219, 1-11-72, Cl. 4-10.
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Byrne, John V.: *See—*
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Byrne, Joseph E. Circular sawing tool. 3,672,785, 6-27-72, Cl. 408-206.000.
Byrne, Joseph J., to Monsanto Research Corporation. Guanidine and lithium perchesrote salts and eutectics. 3,687,747, 8-29-72, Cl. 149-77.000.
Byrne, Michael D., Jr.: *See—*
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Byrne, Robert W., to Thiokol Chemical Corporation. Fuel-air explosive device. 3,658,005, 4-25-72, Cl. 102-6.000.
Byrne, Thomas D. Carbide deposition structure and method. 3,666,906, 5-30-72, Cl. 219-76.000.
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Byrne, William Ralph. Electrical contacts. 3,649,795, 3-14-72, Cl. 200-166.
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Byrnes, Peter A., Jr.; and Lepselter, Martin P., to Bell Telephone Laboratories, Incorporated. Method for etching thin film materials by direct cathodic back sputtering. 3,661,747, 5-9-72, Cl. 204-192.
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Bysouth, Peter Thomas; and Wild, Anthony Musgrave, to BDH Pharmaceuticals Limited. 3-(p-substituted phenyl) propane-1, 2-diols. 3,700,738, 10-24-72, Cl. 260-613.00r.
Bystrom, Roy H. Centrifugal clutch. 3,687,254, 8-29-72, Cl. 192-105.00a.
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C & M Manufacturing Company, mesne: *See—*
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Cabello, Charles R., to Bancroft, Joseph, & Sons, Co. Synchronizing yarn winding to stuffer crimper output. 3,675,286, 7-11-72, Cl. 28-1.700.
Cabestany, Jean-Antoine; and Lefebvre, Yves, to Nobel Hoechst Chimie. Water-soluble quaternized melamine-aldehyde resins and their application in the paper industry. 3,645,841, 2-29-72, Cl. 162-166.
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Cacciabue, Antonio; and Beazley, Rodney Thomas, to Glacier Metal Company Limited, The. Centrifugal separator. 3,666,170, 5-30-72, Cl. 233-1.
Cachard, Maurice de; and Georges, Jean-Louis, to Commissariat a l'Energie Atomique. Method of electron beam welding. 3,663,794, 5-16-72, Cl. 219-121.0em.
Cachat, John F., to Park-Ohio Industries, Inc. Multi-phase induction heating device. 3,691,339, 9-12-72, Cl. 219-10.570.
Cachat, John F., to Growth International, Inc. Mobile apparatus for the induction heating of metal ingots. 3,705,285, 12-5-72, Cl. 219-10.570.
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Cachelin, Gerard; and Jeannottat, Etienne, to Fabrique d'Horlogerie Chas. Tissot & Fils S.A. Wrist watch strap connections. 3,659,383, 5-2-72, Cl. 50-88.
Cachelin, Gerard, to Fabique d'Horlogerie Ch. Tissot & Fils S.A. Wrist watches. 3,675,414, 7-11-72, Cl. 58-88.00w.
Cachon, Rene P.; Grundon, Forrest R.; Masterson, Frank H.; Miller, Joseph C.; and Wustrau, Fred E., to International Business Machines Corporation. Method and apparatus for aligning a photo mask. 3,645,622, 2-29-72, Cl. 355-132.
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Caddock, Richard E. Film-type power resistor. 3,649,944, 3-14-72, Cl. 338-260.
Cade, Phillip J., to Electronics Corporation of America. Control apparatus. 3,644,074, 2-22-72, Cl. 431-26.
Cade, Phillip J., to Electronics Corporation of America. Combustion control system. 3,664,803, 5-23-72, Cl. 431-69.000.
Cade, Ronald L.; and Vince, Michael A., to Xerox Corporation. Development apparatus for latent electrostatic images. 3,646,910, 3-7-72, Cl. 118-637.
Cade, Ronald L., to Xerox Corporation. Powder cloud xerographic development apparatus. 3,648,901, 3-14-72, Cl. 222-194.
Cade, Ronald L.; and Volkers, Stewart William, to Xerox Corporation. Simultaneous development-cleaning of the same area of an electrostatographic image support surface. 3,649,262, 3-14-72, Cl. 96-1.4.
Cade, Ronald L.; and Volkers, Stewart W., to Xerox Corporation. Xerographic pick-off plate. 3,682,538, 8-8-72, Cl. 355-3.000.
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Cadiou, Jean G., to Citroen S.A. Door stop means. 3,639,943, 2-8-72, Cl. 16-82.
Cadiou, Jean Georges, to Societe Anonyme Automobiles Citroen. Seat comprising independently mounted blocks of deformable elastic padding. 3,679,263, 7-25-72, Cl. 297-456.000.
Cadiou, Jean-Georges, to Societe Anonyme Automobiles Citroen. Vehicles with short wheel base and of small bulk, especially passengers vehicles. 3,685,854, 8-22-72, Cl. 280-106.50r.
Cadle, Peggy Snider. Stackable furniture units. 3,639,924, 2-8-72, Cl. 5-2.
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Cadwell, Gilbert C., to Rohr Corporation. Shock wave riveting means and method. 3,673,833, 7-4-72, Cl. 72-56.000.
Cadwell, Sidney M. Shock shielding structure and method. 3,660,951, 5-9-72, Cl. 52-2.
Cady, James C.; and Foshee, William R., to Best Lock Corporation. Security hasp. 3,652,114, 3-28-72, Cl. 292-281.
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Cafarelli, Ralph Joseph, to Nylon Products Corporation. Plastic injection molding system. 3,663,142, 5-16-72, Cl. 425-217.
Caffa, Giorgio, to FMC Corporation. Power tool and automatic feed therefor. 3,656,520, 4-18-72, Cl. 144-32.
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Cafiero, Gasper, to Metra Electronics Corporation. Splicing apparatus for splicing strip material, as film or magnetic tape. 3,694,294, 9-26-72, Cl. 156-507.000.
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Cagnon, Eugene C., to Ford Motor Company. Structure for closing a motor housing and for supporting a brush elements making contact with the armature thereof. 3,701,913, 10-31-72, Cl. 310-247.000.
Cahen, Olivier; Picquendar, Jean-Edgar; and Pircher, Georges, to Compagnie Francaise Thomson Houston-Hotchkiss Brandt. System and method for positioning a wafer coated with photoresist and for controlling the displacements of said wafer in a scanning electon apparatus. 3,648,048, 3-7-72, Cl. 250-49.5.
Cahill, Bonaventure B.; and Lyon, Wilfred W., to Ohmart Corporation, The. Beta-ray thickness gauge using a two energy level beta-ray source. 3,665,199, 5-23-72, Cl. 250-106.
Cahill, Bonaventure B.; and Lyon, Wilfred W., to Ohmart Corporation, The. Gauge using environment-insensitive radiation beam cross-section limiter. 3,668,399, 6-6-72, Cl. 250-83.30d.
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Cahill, George N.; Stringer, Frederick D.; and Whitcher, Gary R., to Allied Chemical Corporation. Tendency idler roll and idler roll. 3,688,370, 9-5-72, Cl. 29-116.00r.
Cahill, John A. Apparatus for sampling ore and the like. 3,659,460, 5-2-72, Cl. 73-421.
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Cahill, Lysle D.; Feller, John; Marshall, William W.; Thomas, Edward R.; and Thompson, Harold P., to Mead Corporation, The. Multiple head ink drop graphic generator. 3,689,693, 9-5-72, Cl. 178-6.60r.
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Cahill, Terence, to G. K. N. Somerset Wire Limited. Electric conductor cables for use in overhead power transmissions. 3,676,578, 7-11-72, Cl. 174-128.000.
Cahill, Thomas J., Jr., to Rapid-American Corporation. Bowling ball carrier. 3,690,360, 9-12-72, Cl. 150-52.00a.
Cahill, William Francis, Jr. Apparatus and method for incinerating rubbish and cleaning the smoke of incineration. 3,668,833, 6-13-72, Cl. 55-7.000.
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Callaby, Roy: *See*—
Calligaris, Ennio; Callaby, Roy; and Rossello, Mario, 3,650,747.

Callaghan, James I. Burglar alarm triggered by breaking of a magnetic circuit. 3,706,090, 12-12-72, Cl. 340-274.000.

Callaghan, John D., to RCA Corporation. Antenna system for television reception within both the JHF and VHF television band of frequencies. 3,683,391, 8-8-72, Cl. 343-802.000.

Callaghan, Joseph C., to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence. Cable control system. 3,679,180, 7-25-72, Cl. 254-172.000.

Callahan, Francis Marc, to American Cyanamid Company. Mixed auhydride method of preparing peptides. 3,640,991, 2-8-72, Cl. 260-112.5.

Callahan, Franis J., Jr., to Crawford Fitting Company. Tube coupling for large diameter tubes. 3,694,010, 9-26-72, Cl. 285-334.400.

Callahan, Jack D. Copy camera. 3,674,366, 7-4-72, Cl. 355-55.000.

Callahan, James J.; and Snow, John Proctor, to McCord Corporation. Lubricating apparatus. 3,693,757, 9-26-72, Cl. 184-7.00d.

Callahan, James L.; Presson, Robert D.; and Miller, Arthur F., to Standard Oil Company, The. Process for prevention of catalyst hang-up in ammoxidation of olefins to unsaturated nitriles. 3,658,877, 4-25-72, Cl. 260-465.3.

Callahan, John J.: *See*—
Tiefenthal, Harlan E.; Jungermann, Eric; Miller, Eugene J., Jr.; and Callahan, John J., 3,674,879.

Callahan, Michael J., Jr., to Texas Instruments, Incorporated. Solid state operational amplifier. 3,673,508, 6-27-72, Cl. 330-30.00d.

Callan, Jerry C. Container and joint therefor. 3,651,975, 3-28-72, Cl. 220-4.

Callan, John E., to Cities Service Company. Semi-vulcanized butyl rubber for sealant applications. 3,674,735, 7-4-72, Cl. 260-33.6aq.

Callan, John E., to Cities Service Company. Self-curing sealant compositions. 3,704,196, 11-28-72, Cl. 156-306.000.

Callan, John E., to Cities Service Company. Method of increasing the scorch life of butyl rubber. 3,704,274, 11-28-72, Cl. 260-33.6aq.

Callander, George C.: *See*—
Sheahan, Desmond F.; and Callander, George C., 3,699,916.

Callanen, Oliver E., to Melpar, Inc. Motion system with three reciprocating actuators for flight simulation. 3,645,011, 2-29-72, Cl. 35-12.

Callard & Bowser Limited: *See*—
Waters, Peter Donald, 3,669,030.

Callcut, Brain Charles: *See*—
Ridgway, Peter Charles; and Callcut, Brain Charles, 3,634,837.

Calle, Jose Luis Rodriguez. Drip tray for refrigerators. 3,662,912, 5-16-72, Cl. 220-9.

Callendar, Max V.; and Cox, Victor J., to Pye Limited. Receiver for use with a direction finding or radar receiving system. 3,686,670, 8-22-72, Cl. 343-113.00r.
Callender, Evelyn N.: *See—*
Callender, Jack E.; Halbedel, Don Edward; Bagwell, Benjamin J.; Horning, James Leroy; Lissakers, Erik Axel; Long, Joseph Harold; and Schweitzer, Cameron C., 3,702,381.
Callender, Jack E.; deceased (by Callender, Evelyn N.; administratrix); Halbedel, Don Edward; Bagwell, Benjamin J.; Horning, James Leroy; Lissakers, Erik Axel; Long, Joseph Harold; and Schweitzer, Cameron C., to North Electric Company. Telephone switching ystem including toll service desk. 3,702,381, 11-7-72, Cl. 179-27.0ff.
Callerame, Joseph, to Chemical Generators Inc. Chlorous acid production. 3,684,437, 8-15-72, Cl. 23-152.000.
Callerame, Joseph, to Chemical Generators Inc. Process of producing chlorine dioxide. 3,695,839, 10-3-72, Cl. 423-479.000.
Callieri, Michele; Faraci, Giorgio; and Paracchini, Mario, to Bemberg S.p.A. Method for manufacturing yarn consisting of fibres and filaments. 3,672,147, 6-27-72, Cl. 57-157.00f.
Calligaris, Ennio; and Rossello, Mario, to Societa per Azioni Ferrania. Electroless deposition of Ni or Co on light-generated Ag nuclei. 3,647,450, 3-7-72, Cl. 96-48.
Calligaris, Ennio; Callaby, Roy; and Rossello, Mario, to Minnesota Mining and Manufacturing Company. Electroless deposition of Ni, Co, Cu or Fe metal and a Bi, Sb, Pb, Sn, Ti, W or Cr salt on an Au, Pt or Pd latent image. 3,650,747, 3-21-72, Cl. 96-48.
Callighan, Robert H.; and Masciantonio, Philip X., to United States Steel Corporation. Process for the recovery of glyoxylic acid. 3,644,508, 2-22-72, Cl. 260-526.
Callighan, Robert H.; and Masciantonio, Philip X., to United States Steel Corporation. Process for the preparation of glyoxylic acid methyl hemiacetal. 3,705,922, 12-12-72, Cl. 260-535.00r.
Callihan, James M.: *See—*
Bubb, Daniel F.; and Callihan, James M., 3,692,428.
Callihan, Rudy B.: *See—*
Cockrell, Darryl W.; and Callihan, Rudy B., 3,678,998.
Callister, John David; and Carlile, Clayton George, to American Cyanamid Company. Nitration of phenol using recycle acid. 3,642,913, 2-15-72, Cl. 260-622.
Calmac Manufacturing Corporation: *See—*
MacCracken, Calvin D., 3,636,725.
Calmes, Jean-Paul. Recoil device for rotary forging mill. 3,638,466, 2-1-72, Cl. 72-208.
Calmic Engineering Company Limited: *See—*
Huthwaite, John Alan, 3,662,474.
Rogers, George A., 3,660,280.
Calmic Limited: *See—*
O'Hara, James; and Gibbins, Charles Lewis, 3,668,716.
Calmon, Calvin; Heit, Allyn Harold; and Helfgott, Theodore. Method for the removal of colloidal suspensions and other pollutants from liquid wastes. 3,699,039, 10-17-72, Cl. 210-28.000.
Calnan, James: *See—*
Shield, Walter; Saggers, Michael John; and Calnan, James, 3,683,897.
Calogero, William J.: *See—*
Negersmith, Kent M.; and Calogero, William J., 3,679,367.
Calor: *See—*
Trouilhet, Maurice Marie Achille, 3,671,357.
Caloric Corporation: *See—*
Das, Nalini R.; and Strain, Edwin H., 3,689,194.
Kemp, Wayne T., 3,645,248.
Strain, Edwin H.; and Das, Nalini R., 3,660,792.
Calottan AG: *See—*
Haefeli, Hildegard, 3,639,045.
Calsilox S.A.: *See—*
Vrijma, Berend, 3,664,219.
Vrijma, Berend, 3,695,129.
Caltagirone, Saverio, to General Electric Company. Apparatus for starting and operating electric discharge lamps. 3,648,207, 3-7-72, Cl. 336-206.
Caltagirone, Saverio, to General Electric Company. Apparatus and method for winding electrical coils. 3,648,506, 3-14-72, Cl. 72-206.
Caltagirone, Saverio, to General Electric Company. Apparatus for winding electrical coils. 3,669,380, 6-13-72, Cl. 242-158.00r.
Calud, Romeo T., to Bucyrus-Erie Company. Dual stator induction motor torque sensor A.C. dynamometer. 3,638,480, 2-1-72, Cl. 73-134.
Caludon Engineering Company Limited: *See—*
Lancaster, James Kenneth; and Yates, David William, 3,680,439.
Calundann, Gordon W., to Celanese Corporation. Acrylonitrile polymerization. 3,687,918, 8-29-72, Cl. 260-85.5es.
Calusen, Victor H.; and Zweig, Arnold, to Simpson Timber Company. Apparatus for bonding continuous flexible strands coated with a thermoplastic adhesive to the surface of moving veneer strips. 3,669,804, 6-13-72, Cl. 156-544.000.
Calvagna, James F.; and Balling, Roger A., to Community Bank, mesne. Control system for audio-visual devices connected by cables. 3,691,528, 9-12-72, Cl. 340-152.00r.
Calvert, Alan Hilary: *See—*
Wright, John Thomas Matthew; and Calvert, Alan Hilary, 3,684,405.
Calvert, David W.: *See—*
Smith, Leon; Calvert, David W.; Robert, Andre; and Viallet, Andre, 3,657,065.
Calvert, Francis E.: *See—*
Hoer, Ralph A.; and Calvert, Francis E., 3,649,293.
Calvert, Rodney K.; Viescas, Arthur B.; and Fishback, Alton J., to Mead Corporation, The. Mechanism for lining a series of shells. 3,642,414, 2-15-72, Cl. 425-388.
Calvert, Rodney K.; and Scott, Dale Keith, to Mead Corporation, The. Wire forming machine and method. 3,691,808, 9-19-72, Cl. 72-190.000.
Calvert, Rodney K.; and Landrum, Charles Rabun, to Mead Corporation, The. Film heating system. 3,699,666, 10-24-72, Cl. 34-54.000.
Calvet, Francisco Vancells, to Hilados Y Tintes Soler, S.A. Procedure for the dyeing of textile ribbons. 3,679,356, 7-25-72, Cl. 8-149.100.
Calvi, Salvatore J.: *See—*
Morriston, Douglas I.; and Calvi, Salvatore J., 3,697,165.
Calvin, John N., to Combustion Engineering, Inc. Flow deflector for nuclear fuel element assemblies. 3,663,367, 5-16-72, Cl. 176-78.
Calvin, Victor E.: *See—*
Frick, Roy C.; Calvin, Victor E.; Sharpe, John C.; and Rowe, William Wallace, 3,686,054.
Calvino y Teijeiro, Benito Jose, to Magrini Fabbriche Riunite Magrini-Scarpa e Magnano-M.S.M.-S.p.A. Blast orifice unit for self-blasting compressed gas electric circuit-breakers. 3,670,124, 6-13-72, Cl. 200-148.00r.
Calvino y Teijeiro, Benito Jose, to Magrini Fabbriche Riunite Magrini Scarpa e Magnano-M.S.M.-S.p.A. Blast nozzle for self-blasting compressed gas electric circuit-breakers. 3,670,125, 6-13-72, Cl. 200-148.00r.
Calzaferri, Hans; Kunz, Werner; Schwemmer, Martin W.; and Wyler, Max, to Triatex International AG fur textile Forschung und Entwicklung. Method and apparatus for processing cellulose-containing textiles with the vapors from an azeotropic liquid comprising n acidic catalyst. 3,647,353, 3-7-72, Cl. 8-116.3.
Cam Gears Limited: *See—*
Adams, Frederick J., 3,645,542.
Adams, Frederick J., 3,669,146.
Adams, Frederick John, 3,645,296.
Alderton, Howard Kenneth, 3,695,733.
Goldsmith, Ronald, 3,688,374.
Cam Rotors Limited: *See—*
Prendergast, Charles Scott, 3,699,848.
Cama, Gerardo, to Coltex, S.L. Apparatus for cleaning metallic parts. 3,675,666, 7-11-72, Cl. 134-105.000.
Camacho, Salvador L., to Technology Application Services Corporation. Long arc column plasma generator and method. 3,673,375, 6-27-72, Cl. 219-121.00p.
Camacho, Vasco G.: *See—*
Anderson, James J.; Byrd, Wendell M., Jr.; and Camacho, Vasco G., 3,706,821.
Camahort, Jose L.; and Gomez, Mario P., to Lockheed Aircraft Corporation. Boron nitride coated boron filaments. 3,634,132, 1-11-72, Cl. 117-169.
Camardella, Ciuseppe. Multiple coil winder. 3,658,269, 4-25-72, Cl. 242-7.09.
Camardella, Giuseppe. Welding apparatus of wire terminals on electronic components. 3,663,789, 5-16-72, Cl. 219-79.
Camardella, Giuseppe. Method and apparatus for finishing electric coils. 3,667,118, 6-6-72, Cl. 29-605.
Cambio, Orlando D., Jr., to Abbott Laboratories. Lever opened sealed container. 3,667,638, 6-6-72, Cl. 215-32.
Camboulives, Andre Alphonse Mederic Leon; Delonge, Jean-Claude Lucien; Cesson, Theophile Francois Le Maout; and Vandenbroucke, Alfred Jiles, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Device for damping the noise produced by a gs jet escaping from a duct. 3,687,222, 8-29-72, Cl. 181-33.0hc.
Cambridge Chemical Products, Inc.: *See—*
Mauthner, Thomas, 3,670,072.
Cambridge Filter Corporation: *See—*
Goulet, Roger T.; and Zednik, Ernest R., 3,698,984.
Cambridge Instrument Company, Inc.: *See—*
Weingarten, Irving R., 3,694,338.
Cambridge Research and Development Group: *See—*
Richardson, James E.; and Sherman, Lawrence M., 3,651,927.
Cambridge Scientific Instruments Limited: *See—*
Oatley, Charles W., 3,678,384.
Van-Essen, Christopher Geoffrey; Schulson, Erland Maxwell; and Donaghay, Richard Hugh, 3,702,398.
Cambridge Thermionic Corporation: *See—*
Cox, Irvin W., 3,676,253.

Walup, William B., 3,683,317.
Cambridge Wire Cloth Company: *See—*
Daringer, Ronald G., 3,658,099.
Cambureanu, Aurel: *See—*
Schwartz, Robert; Manolache, Constantin; Tannenbaum, Marcel; Vasile, Gheorghe; Rey, Vasile; Sima, Constantin; and Cambureanu, Aurel, 3,692,277.
Camco, Incorporated: *See—*
Current, James H.; and Kilgore, Marion D., 3,643,737.
Current, James H., 3,645,335.
Current, James H.; and Kilgore, Marion D., 3,661,207.
O'Pry, Arthur F., 3,661,470.
Watkins, Fred E.; and Tausch, Gilbert H., 3,672,397.
Camdale Enterprises: *See—*
Conforti, John W.; and Silvagi, Joseph, 3,665,912.
Camdex, Inc.: *See—*
Leich, Robert A., 3,678,799.
Cameli, Nazzareno: *See—*
Carbonaro, Antonio; Greco, Alberto; Asta, Gino Dall; and Cameli, Nazzareno, 3,699,088.
Cameli, Nazzareno; Lingi, Paolo; and Valvassori, Alberto, to Goodrich, B. F., Company, The. Modified elastomeric ethylene/propylene copolymers and process for producing same. 3,651,009, 3-21-72, Cl. 260-41.
Cameli, Nazzareno; Longi, Paolo; Valvassori, Alberto; and Parodi, Sandro, to Goodrich, B. F., Company, The. Vulcanizable ethylene/propylene copolymers and process for preparing same. 3,651,032, 3-21-72, Cl. 260-79.5.
Cameli, Nazzareno; Longi, Paolo; Valvassori, Alberto; and Flisi, Umberto, to Goodrich, B. F., Company, The. Compositions comprising a mixture of sulfur-vulcanizable ethylene/propylene/dicycl opentadiene copolymers with sulfur vulcanizable ethylene/propylenebutadiene copolymers. 3,670,055, 6-13-72, Cl. 260-889.000.
Cameli, Nazzareno; Longi, Paolo; and Valvassori, Alberto, to Goodrich, B. F., Company, The. Vulcanizable ethylene/propylene copolymers and process for their preparation. 3,674,754, 7-4-72, Cl. 260-79.50.
Camelot Stone, Inc.: *See—*
Sullivan, Wayne S., 3,700,516.
Camenzind, Hans R.: *See—*
Nelson, Carroll E.; Camenzind, Hans R.; and Youmans, Albert P., 3,683,491.
Camenzind, Hans R., to Signetics Corporation. Process for making integrated circuit masks. 3,663,223, 5-16-72, Cl. 96-36.2.
Camenzind, Hans R., to Signetics Corporation. Integrated video amplifier. 3,668,540, 6-6-72, Cl. 330-18.000.
Cameo, Inc.: *See—*
Lauster, Frederick L., 3,683,065.
Camera, Jack: *See—*
Clarke, Dudley S.; and Camera, Jack, 3,705,987.
Camerik, Ferdinand, to U.S. Philips Corporation. Store read units. 3,638,048, 1-25-72, Cl. 307-299.
Cameron, Alan William: *See—*
Robinson, Trevor Howard; Cameron, Alan William; and Fitz, Philip Jonn, 3,662,189.
Cameron, Alistair A., to General Motors Corporation. Seal ring pick-up support. 3,680,191, 8-1-72, Cl. 29-235.000.
Cameron, Dan, Jr.: *See—*
Kurek, Nichoas B.; Gruder, James F.; and Cameron, Dan, Jr., 3,651,517.
Cameron, Donald P.: *See—*
Beereboom, John J.; Cameron, Donald P.; and Stephens, Charles R., 3,647,479.
Cameron, Douglas A.: *See—*
Thayer, Arlie J.; and Cameron, Douglas A., 3,632,069.
Cameron, Douglas H.; Moody, Roy A.; and Thayer, Arlie J., to Panduit Corporation. Mount for receiving and retaining a strap. 3,632,071, 1-4-72, Cl. 248-74.
Cameron, Eric C., to Battelle Development Corporation, mesne. Silver recovery process. 3,632,336, 1-4-72, Cl. 75-83.
Cameron, Eugene A., to Instronics Limited. Chart reading apparatus. 3,636,256, 1-18-72, Cl. 178-18.
Cameron, Ewen, to Columbia Broadcasting System Inc. Apparatus for continuous contact printing. 3,664,738, 5-23-72, Cl. 355-87.
Cameron, Frank L., to Westinghouse Electric Corporation. Current limiting fuse. 3,636,491, 1-18-72, Cl. 337-244.
Cameron, Frank L., to Westinghouse Electric Corporation. Current limiting fuse. 3,705,373, 12-5-72, Cl. 337-160.000.
Cameron, Gordon N. Hydraulically actuated chuck. 3,679,219, 7-25-72, Cl. 279-1.00q.
Cameron Iron Works, Inc.: *See—*
Allen, Herbert, 3,638,469.
Allen, Herbert, 3,698,227.
Baker, Gerald S., 3,677,353.
Carman, Richard Jan, 3,696,288.
Curington, Wayne C.; Fisher, Edmund A.; and Taylor, William M., 3,688,840.
Ellis, Frank V., 3,657,783.
Jones, Marvin R., 3,646,962.
Wedel, Alfred W., 3,677,575.
Welch, Robert W., Jr.; Bolton, George H.; Oliver, John P.; and Wedel, Alfred W. (said Oliver and said Weldel assors. to), 3,658,366.
Cameron Iron Works, Inc., mesne: *See—*
Payne, Vivian H., 3,642,020.
Cameron, James A.; Lanzafame, Joseph; and Mann, Leonard E., to General Dynamics Corporation. Method and apparatus for vertical torch oscillation inversely to current magnitude. 3,646,311, 2-29-72, Cl. 219-137.
Cameron, John: *See—*
Fotland, Richard A.; Straughan, Virgil E.; and Cameron, John, 3,658,533.
Cameron Machine Company: *See—*
Degelleke, Gerrit; and Bush, Robert E., 3,635,570.
Cameron, Malcolm R. Therapeutic bath back brush and process of using same. 3,699,602, 10-24-72, Cl. 15-21.00d.
Cameron, William M.; Mikiya, Toshio; and Matsumura, Mitsuma, to Nitto Kohki Company Limited. Fluid actuated tool having removable coil spring biasing means. 3,680,643, 8-1-72, Cl. 173-133.000.
Cameron, William M., to Mitto Rohhi Company Limited, mesne. Governor for fluid driven motor having reciprocating elements in rotor. 3,684,411, 8-15-72, Cl. 418-15.000.
Cameron-McIndoo Limited: *See—*
Helland, Russell Earl, 3,650,588.
Camiciottoli, Roberto; and Palombari, Maurizio, to Societa Italiana Telecommunicazioni S.p.A. Remote-testing arrangement for two-way transmission channel of PCM telecommunication system. 3,692,964, 9-19-72, Cl. 179-175.31r.
Camie Company, Inc.: *See—*
Campbell, Carl N., 3,640,429.
Camilleri, Francis P. Fish line holder. 3,654,722, 4-11-72, Cl. 43-25.
Camilleri, Louis T.; and Forgione, Anthony F., to Hooker Chemical Corporation. Process for preparing discoloration-resistant curable polyurethane coatings. 3,706,710, 12-19-72, Cl. 260-75.0ne.
Camitz, Carl-Henning, to Romnas Burks Aktiebolag. Chain link. 3,664,121, 5-23-72, Cl. 59-84.
Cammarata, Italo: *See—*
Vecchio, Martino; and Cammarata, Italo, 3,652,692.
Vecchio, Martino; Cammarata, Italo; and Pattore, Vittorio, 3,679,767.
Vecchio, Martino; Carraro, Giorgi; and Cammarata, Italo, 3,703,557.
Cammarata, Italo; and Vecchio, Martino, to Montecatini Edison S.p.A. Process for the production of iodopentafluoroethane. 3,644,544, 2-22-72, Cl. 260-653.7.
Camon Inc.: *See—*
Toda, Katuhiko, 3,644,026.
Camosso, Domenico: *See—*
Fransos, Pieiro; and Camosso, Domenico, 3,684,337.
Camosso, Domenico, to RIV-SKF Officine di Villar Perosa S.p.A. Method for the manufacture of rolling bearings. 3,657,781, 4-25-72, Cl. 29-148.4.
Camp, Albert T.; Dickinson, Lionel A.; and Mosher, Paul R., to United States of America, Navy. Liquid nitrate ester monopropellant composition. 3,634,158, 1-11-72, Cl. 149-88.
Camp, Albert T.; and McCone, Alan, Jr. Solid propellant rocket. 3,668,872, 6-13-72, Cl. 60-207.000.
Camp, Alfred L., to Wilkins Regulator Co. Automatically regulated fire valve. 3,692,047, 9-19-72, Cl. 137-95.000.
Camp, Arthur F., Jr.; and Getz, Harry W., to General Electric Company. Compensating threshold level detector. 3,639,845, 2-1-72, Cl. 328-146.
Camp, Ernest C., Jr.; and Clausen, Herbert J., to Cities Service Company. Process for producing high analysis ammonium polyphosphates. 3,661,551, 5-9-72, Cl. 71-34.000.
Camp, George F.: *See—*
Stanfield, Howard E.; Stanfield, Gary W.; and Camp, George F., 3,693,800.
Camp, Thomas R., 1/2 to Kreske, Walter J. Method for water and wastewater treatment. 3,660,284, 5-2-72, Cl. 210-49.
Camp, William J. Aircraft computer. 3,656,688, 4-18-72, Cl. 235-86.
Campagna, James V., Jr. Main strap around an amplifier with holding strap to hold guitar. 3,664,224, 5-23-72, Cl. 84-1.01.
Campagne, Jean-Pierre Alain: *See—*
Brilman, Michel Edmond Francis; Campagne, Jean-Pierre Alain; and Gorinas, Guy Georges, 3,641,517.
Campagnuolo, Carl J.: *See—*
Egolf, David P.; and Campagnuolo, Carl J., 3,642,018.
Campagnuolo, Carl J., to United States of America, Army. Fluid-electrical generator. 3,686,520, 8-22-72, Cl. 310-15.000.
Campana, Eugene E., to Ciba-Geigy Corporation. Printing of anionic dyes on polycarbonamides of bis (para-aminocyclohexyl)methane and dodecanedioic acid. 3,702,229, 11-7-72, Cl. 8-62.000.
Campanella, Angelo J. Proximity warning and collision avoidance systems. 3,652,981, 3-28-72, Cl. 340-25.
Campanella, Matthew J., to United States of America, Navy, mesne. Phased array beam steering control with phase misalignment correction. 3,646,558, 2-29-72, Cl. 343-100.
Campanelli, Mario. Freeze stabilized insulin. 3,683,635, 8-15-72, Cl. 62-64.000.

Campanini, Sergio, to Berg Mfg. & Sales Co. Fluid pressure brake system. 3,692,366, 9-19-72, Cl. 303-9.000.
Campbel, John B., to Du Pont de Nemours, E. I., and Company. Dehydrohalogenation of halogenated compounds. 3,639,493, 2-1-72, Cl. 260-655.
Campbell, Alastair; Robinson, Peter; and Tipping, James William, to Imperial Chemical Industries Limited. Stabilization of methylchloroform. 3,661,788, 5-9-72, Cl. 252-171.
Campbell, Alastair; and Robinson, Peter, to Imperial Chemical Industries Limited. Stabilised trichloroethylene. 3,676,507, 7-11-72, Cl. 260-652.50r.
Campbell, Alastair; and Carruthers, Rosemary Angela, to Imperial Chemical Industries Limited. Manufacture of 1,1,1-trichloroethane. 3,706,816, 12-19-72, Cl. 260-658.00r.
Campbell, Albert E., to Chevron Research Company. Apparatus for forming foam for use in wells. 3,685,807, 8-22-72, Cl. 259-147.000.
Campbell, Albert Evan, Jr.; and Jensen, Andrew O., to Xerox Corporation. Metallized and brazed ceramics. 3,666,429, 5-30-72, Cl. 29-195.
Campbell, Allen J.: *See—*
Bialous, Charles A.; Campbell, Allen J.; and Liberti, Frank N., 3,697,481.
Campbell, Billy G. Fireplace log burner. 3,671,175, 6-20-72, Cl. 431-328.000.
Campbell, Bruce D., to Coto-Coil Co., Inc. Reed relay having low thermal EMF. 3,701,960, 10-31-72, Cl. 335-154.000.
Campbell, Carl N., to Camie Company, Inc. Method of dispensing an industrial spray using both a propellant-dispersant and gas pressure. 3,640,429, 2-8-72, Cl. 222-1.
Campbell, Charles: *See—*
Clark, Willard; and Campbell, Charles, 3,687,274.
Campbell, Charles R.: *See—*
Mathews, Marion J., III; and Campbell, Charles R., 3,636,096.
Mueller, Werner H.; Hicks, John J., Jr.; and Campbell, Charles R., 3,636,100.
Mueller, Werner H.; Campbell, Charles R.; and Hicks, John J., Jr., 3,654,355.
Campbell, Charles S., to American Maize-Products Company. Process for making a battermix starch for breaded deep fried foods. 3,655,443, 4-11-72, Cl. 127-70.
Campbell, Curtis B.; and Grover, Ben L., to Utah State University. Dew point hygrometers. 3,664,192, 5-23-72, Cl. 73-336.500.
Campbell, David: *See—*
Zimmermann, Detlef; Campbell, David; and De Bortoli, George, 3,673,314.
Campbell, David, to General Instrument Microelectronics Ltd. Two-phase logic circuit. 3,644,750, 2-22-72, Cl. 307-208.
Campbell, David; and Chamberland, Real Oscar, to Northern Electric Company Limited. Reed material for sealed contact application. 3,668,355, 6-6-72, Cl. 200-166.00c.
Campbell, David D., to General Motors Corporation. Occupant restraint system. 3,687,485, 8-29-72, Cl. 280-150.0ab.
Campbell, David Neil; and Turton, Frank Arnold, to Hymatic Engineering Company Limited, The. Cryogenic cooling apparatus. 3,704,598, 12-5-72, Cl. 62-514.000.
Campbell, David Neil; and Turton, Frank Arnold, to Hymatic Engineering Company Limited, The. Cryogenic cooling apparatus. 3,704,601, 12-5-72, Cl. 62-514.000.
Campbell, David Robert, to Du Pont de Nemours, E. I., and Company. Process for improving uniformity of polymeric film. 3,646,188, 2-29-72, Cl. 264-230.
Campbell, Donald A., to Westinghouse Electric Corporation. System for determining leakage inside a reactor containment. 3,644,172, 2-22-72, Cl. 176-19.
Campbell, Donald H.; and Liu, Chong-Tan, to Hooker Chemical Corporation. Metal plating on non-conductive substrates. 3,681,209, 8-1-72, Cl. 204-30.000.
Campbell, Donald J., to Honeywell Information Systems Inc. Management control subsystem for multiprogrammed data processing system. 3,639,912, 2-1-72, Cl. 340-172.5.
Campbell, Donald J.; Heffner, William J.; Jennings, Paul H.; and King, Jane E., to Honeywell Information Systems, Inc. Storage structure for management control subsystem in multiprogrammed data processing system. 3,665,487, 5-23-72, Cl. 444-1.000.
Campbell, Douglas B.: *See—*
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Campbell, Douglas E.; and Harris, Richard A., to Western Electric Company, Incorporated. Mask registration during continuous photoetching of strip material. 3,671,243, 6-20-72, Cl. 96-36.200.
Campbell, Douglas Earl; and Harris, Richard Allen, to Western Electric Company, Incorporated. Method of partial shuttering for even exposure of photosensitive material. 3,679,310, 7-25-72, Cl. 355-132.000.
Campbell, Edward E.; and Sandor, Bela, to General Motors Corporation. Closure latch. 3,703,308, 11-21-72, Cl. 292-216.000.
Campbell, Erwin A.: *See—*
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Campbell, Erwin A., to Moore, Lee C., Corporation. Pipe handling apparatus. 3,696,944, 10-10-72, Cl. 214-2.500.
Campbell, Eugene H.; and Kane, James F., to Signetics Corporation. Binary memory circuit with coupled short term and long term storage means. 3,654,623, 4-4-72, Cl. 340-173.
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Campbell, Frank A., to Xerox Corporation, mesne. Cable construction. 3,644,659, 2-22-72, Cl. 174-27.
Campbell, Frederick: *See—*
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Campbell, George Thomas Richardson; and Kasuga, Toshishige, to Algoship International Limited. Marine cargo handling crane. 3,658,187, 4-25-72, Cl. 212-3.
Campbell, George Thomas Richardson; and Ohta, Kimio, to Algoship International Limited. Trimming pipe system for free-flowing cargoes. 3,678,875, 7-25-72, Cl. 114-73.000.
Campbell, Henry Fred, to Campbell Research Corporation. Stressed concrete structures and method of making. 3,676,968, 7-18-72, Cl. 52-223.000.
Campbell, Herman W.: *See—*
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Campbell, Hollis O.; Fetrow, John W.; and Mitchell, Kim L., to Continental Oil Company. Variable depth, remotely selective seismic cable depth controller. 3,704,681, 12-5-72, Cl. 114-235.00b.
Campbell, Hugh W., to National Cash Register Company, The. Self-destructible honeycomb laminates. 3,638,573, 2-1-72, Cl. 102-90.
Campbell, Hugh W., to National Cash Register Company, The. Coating of particles and process for manufacturing said coating. 3,694,243, 9-26-72, Cl. 117-27.000.
Campbell, Hugh W., to National Cash Register Company, The. Self-destructible molded articles. 3,697,668, 10-10-72, Cl. 174-68.500.
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Campbell, Ian Wallace. Apparatus and method for cable covering. 3,689,982, 9-12-72, Cl. 29-430.000.
Campbell, Ivan D., to Georgia-Pacific Corporation. Process for controlling the burning of sulfur. 3,644,092, 2-22-72, Cl. 23-179.
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Campbell, James K., to Dow Corning Corporation. Emulsion and process for binding pigments to glass fabrics. 3,634,297, 1-11-72, Cl. 260-29.2.
Campbell, James K.; and Lee, Kenneth M., to Dow Corning Corporation. Silicone-acrylate soil release treatment for organic textiles. 3,677,810, 7-18-72, Cl. 117-138.80f.
Campbell, James R., 10% to Armco Steel Corporation. Spherical bearing construction. 3,680,930, 8-1-72, Cl. 308-72.000.
Campbell, James R. Jumping stick horse. 3,682,474, 8-8-72, Cl. 272-1.00d.
Campbell, James R., 1/10 to Mahoney, Thomas P. Apparatus for bonding metallic panels. 3,689,730, 9-5-72, Cl. 219-82.000.
Campbell, James W., to Wetoma Corporation. Method of cutting panels. 3,662,798, 5-16-72, Cl. 144-326.
Campbell, Jay E., to Fairview Development Service, mesne. Simulated leaded stained glass. 3,655,493, 4-11-72, Cl. 161-905.
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Campbell, John B., to Du Pont de Nemours, E. I., and Company. Dehydrohalogenation of halogenated compounds. 3,639,492, 2-1-72, Cl. 260-655.
Campbell, John David, to Walker-Neer Manufacturing Co., Inc. Dual circulation bumper subs. 3,664,443, 5-23-72, Cl. 175-293.
Campbell, John E., to Polaroid Corporation. Fluid containers having an inner acid reacting layer. 3,649,282, 3-14-72, Cl. 96-76.
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Campbell, Kenneth N.; and Rivard, Donald E., to Mead Johnson & Company. Spiroindenylpiperidines. 3,666,764, 5-30-72, Cl. 260-293.620.

Campbell, Lawrence Frank, to Scovill Manufacturing Company. Multi-position vacuum motor. 3,657,966, 4-25-72, Cl. 91-357.000.

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Campbell, Lyman L.; and Kulig, Constantine W. Article handling apparatus. 3,687,262, 8-29-72, Cl. 198-31.0aa.

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Campbell, Mark E., to North American Rockwell Corporation. Fingerprint analysis device. 3,699,519, 10-17-72, Cl. 340-146.30e.

Campbell, Melvin L., to Collins Radio Company. Solenoid with multi-rate return spring. 3,665,353, 5-23-72, Cl. 335-258.000.

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Campbell, Milford A. Work feeding track for T-shaped parts. 3,696,904, 10-10-72, Cl. 198-43.00r.

Campbell, Patrick J. Radiation emission and detective apparatus for determining density of a material. 3,655,977, 4-11-72, Cl. 250-83.6.

Campbell, Paul R. Method of and means for controlling traffic. 3,656,099, 4-11-72, Cl. 340-62.

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Campbell, Richard B. Table with folding legs. 3,646,895, 3-7-72, Cl. 108-118.

Campbell, Richard D., to Westinghouse Air Brake Company. Long length track circuit. 3,636,344, 1-18-72, Cl. 246-40.

Campbell, Richard D.; deceased (Campbell, Sue Green; executrix). Cuff making method. 3,670,679, 6-20-72, Cl. 112-262.000.

Campbell, Richard H., to Webster Electric Company, Inc. AVC system. 3,665,332, 5-23-72, Cl. 330-29.

Campbell, Robert: *See—*
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Campbell, Robert E.; and Huntzinger, Gerald O., to General Motors Corporation. Internal combustion engine ignition system having increased ignition spark energy. 3,645,246, 2-29-72, Cl. 123-148.

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Campbell, Robert L., Jr., to Automated Manufacturing Systems, Inc. Apparatus for molding hollow plastic articles. 3,683,705, 8-15-72, Cl. 74-16.000.

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Campbell, Robert W., to Phillips Petroleum Company. Melt-zone salt-out crystallization. 3,658,899, 4-25-72, Cl. 260-543.

Campbell, Robert W., to Phillips Petroleum Company. Copoly(amide-imide)s comprising the reaction product of a diacid, a triacid and bis(4-aminocyclohexyl)-methane. 3,661,863, 5-9-72, Cl. 260-78.

Campbell, Robert W.; and Williams, Ralph P., to Phillips Petroleum Company. Light-stable polyurethane coatings. 3,663,514, 5-16-72, Cl. 260-77.5.

Campbell, Robert W.; and Cummins, Donald L., to General Motors Corporation. Dual voltage system. 3,667,025, 5-30-72, Cl. 320-15.000.

Campbell, Robert W., to General Motors Corporation. Starting mechanism. 3,686,961, 8-29-72, Cl. 74-7.00r.

Campbell, Ronald R.; and Monroe, Roger A., to Storage Technology Corporation. File protect system for magnetic tape unit with solenoid for sensing presence or absence of reel ring. 3,641,277, 2-8-72, Cl. 179-100.2.

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Campbell, Thomas Colin, to Research Corporation. Detoxification of gossypol by eumycophyta. 3,682,645, 8-8-72, Cl. 99-9.000.

Campbell, Thomas G.; and Appleton, Meredith W., to United States of America, National Aeronautics and Space Administration. Omnidirectional slot antenna for mounting on cylindrical space vehicle. 3,653,052, 3-28-72, Cl. 343-708.

Campbell, Trevar G.; Larson, Robert V.; Stahl, Sebald K.; Liess, Richard K.; and Rice, Roger A., to Caterpillar Tractor Company. Automatic positioning systems for scraper elevators. 3,653,132, 4-4-72, Cl. 37-8.

Campbell, W. Wayne, to Peerless Industries, Inc. Vertical shakeout for suspended castings. 3,638,269, 2-1-72, Cl. 15-94.

Campbell, William B., to I. A. Associates, Inc. Apparatus for fluidizing materials. 3,648,983, 3-14-72, Cl. 259-1.

Campbell, William B., Jr.; Burroughs, Jack E.; and Cochran, Joe K., Jr., to Ohio State University, The. Surgically implantable prosthetic joint. 3,638,243, 2-1-72, Cl. 3-1.

Campbell, William G., to Hurst Performance Inc. Rod forming process and apparatus. 3,698,228, 10-17-72, Cl. 72-306.000.

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Campi, Anthony V.; and Gray, Bruce H., to United States of America, Army. Resolution of address information in a content addressable memory. 3,634,829, 1-11-72, Cl. 340-172.5.

Campo, Charles. Admission pass recording and cancelling machine. 3,701,887, 10-31-72, Cl. 235-91.00r.

Campo, Philip. Filter device. 3,675,776, 7-11-72, Cl. 210-232.000.

Camporese, Marsilio; and Levi, Alberto. Automatic button fastening device. 3,705,443, 12-12-72, Cl. 24-90.0pr.

Campos, Adolph J. Automobile safety and anti-theft device. 3,650,347, 3-21-72, Cl. 180-114.

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Camras, Marvin, to IIT Research Institute. Tape cartridge with auxiliary spring biasing elements. 3,642,288, 2-15-72, Cl. 274-4.

Camras, Marvin, to IIT Research Institute. Magnetic recording system using transducer with flux path. 3,681,526, 8-1-72, Cl. 178-6.60a.

Camras, Marvin, to IIT Research Institute. Longitudinal scan magnetic recording and reproducing system for color television signals. 3,683,107, 8-8-72, Cl. 178-5.4cd.

Camras, Marvin, to IIT Research Institute. Transducer system adaptable for audio or video recording or reproduction. 3,686,433, 8-22-72, Cl. 178-6.60a.

Camras, Marvin, to IIT Research Institute. Multiple video signal transducing system and method. 3,686,436, 8-22-72, Cl. 178-6.6sf.

Camras, Marvin, to IIT Research Institute. Magnetic transducer system and method. 3,686,467, 8-22-72, Cl. 179-100.200.

Camras, Marvin, to IIT Research Institute. Apparatus and method for conditioning magnetic transducer system with both head cleaner and bulk demagnetizer. 3,702,906, 11-14-72, Cl. 179-100.20d.

Camras, Marvin, to IIT Research Institute. Video transducing apparatus. 3,705,954, 12-12-72, Cl. 178-6.60a.

Can, Yilmaz, to Corning Glass Works. Electrical connector for refractory electrodes. 3,681,506, 8-1-72, Cl. 13-6.000.

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Canamero, Ernest V.; and Ullmann, Christoph, to American Can Company. Packaging method and apparatus. 3,673,760, 7-4-72, Cl. 53-22.00a.
Canas-Rodriguez, Antonio; and Leeming, Peter R., to Pfizer Inc. 3-Substituted-1-phenyl-indolines and indolinones. 3,644,403, 2-22-72, Cl. 260-326.11.
Canas-Rodriquez, Antonio; and Leeming, Peter R., to Pfizer Inc. 3-Aminoalkyl-1-phenyl-indolines and 2-indolinones in alleviating mental depression. 3,686,182, 8-22-72, Cl. 424-274.000.
Canavan, David W., to Kraftco Corporation. Method for reacting a mixture of carboxylic acids with ammonia to provide nitriles. 3,661,970, 5-9-72, Cl. 260-465.2.
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Candor, James T. Method and apparatus for removing particles from fluid containing the same. 3,687,834, 8-29-72, Cl. 204-186.000.
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Candor, Robert R.; and Candor, James T. Method and apparatus for treatment of material. 3,657,069, 4-18-72, Cl. 162-205.
Candor, Robert R.; and Candor, James T. Liquid removing apparatus and method. 3,667,130, 6-6-72, Cl. 34-1.
Candor, Robert R.; and Candor, James T. Method and apparatus for treating sheet-like material with fluid. 3,699,663, 10-24-72, Cl. 34-9.000.
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Candusso, Amerigo E. Skill and amusement device. 3,666,268, 5-30-72, Cl. 273-109.
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Cane, Andy C.; and Santos, Charles. Spring biased arm exercising device. 3,633,907, 1-11-72, Cl. 272-83.
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Canfield, John L. Air control device. 3,635,245, 1-18-72, Cl. 137-607.
Canfield, Merlyn O. Apparatus for photographic printing without a darkroom. 3,644,036, 2-22-72, Cl. 355-44.
Canfield, Neal R., to Tull, Stanley W., Co., Inc. Sports vehicle. 3,656,571, 4-18-72, Cl. 180-11.
Canfield, Roger I. Method of making a hollow wooden blank. 3,645,309, 2-29-72, Cl. 144-326.
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Canfield, William N.: *See—*
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Cann, Roald, to Bryant Grinder Corporation. Apparatus and method for grinding irregular surfaces of revolution. 3,693,297, 9-26-72, Cl. 51-94.00r.
Cannady, Daniel L., Jr.; and Palazzolo, Salvatore E., to Westinghouse Electric Corporation. Process for texturing the surface of high pressure laminates. 3,648,358, 3-14-72, Cl. 29-527.4.
Cannara, Alexander B., to Ballantine Laboratories, Inc., mesne. Integrating converters with synchronous starting. 3,701,142, 10-24-72, Cl. 340-347.0nt.
Cannell, John Carjeag; Leaper, Rodney Seymour; and Paratt, Noel James. Process for making composite materials from refractory fibres and metal. 3,695,335, 10-3-72, Cl. 164-97.000.
Cannell, Lawrence G., to Shell Oil Company. Cyclodimerization process. 3,692,854, 9-19-72, Cl. 260-666.00a.
Cannell, Lawrence George: *See—*
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Cannella, Joseph L., to Berg Manufacturing Company, The, mesne. Emergency filter for fluid braking systems. 3,646,734, 3-7-72, Cl. 55-314.
Cannella, Joseph L. Automatic reservoir drain valve. 3,658,085, 4-25-72, Cl. 137-341.
Canner, Herman M., to Sterling Detroit Company. Retrieval apparatus for die casting equipment. 3,668,941, 6-13-72, Cl. 74-89.170.
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Cannon, Charles Worth. Cleaner appliance. 3,653,549, 4-4-72, Cl. 222-132.
Cannon, Emerson T., to Utah Research & Development Co., Inc. Physical therapy diagnostic device. 3,680,386, 8-1-72, Cl. 73-379.00r.
Cannon, John Allister; and Malone, Jerome Earl, to Ciba-Geigy Corporation. Polyurethane resins in admixture with polyepoxides. 3,663,652, 5-16-72, Cl. 260-830.
Cannon Kabushiki Kaisha: *See—*
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Cannon, Max R., to International Business Machines Corporation. Slow scan video method and system. 3,663,749, 5-16-72, Cl. 178-6.8.
Cannon, Richard L.; and Smith, Leonard R. D., to Dale Electronics, Inc. Player piano key actuating assembly. 3,634,877, 1-11-72, Cl. 335-255.
Cannon, Richard L.; and Smith, Leonard, R. D., to Dale Electronics, Inc. Switching apparatus for a player piano. 3,685,383, 8-22-72, Cl. 84-160.000.
Cannon, Robert B. Header structure for heat transfer apparatus. 3,651,551, 3-28-72, Cl. 29-157.3.
Cannon, Robert E.; and Frailing, Le Roy H., to Cannon and Associates, Inc. Anchor bolt. 3,680,430, 8-1-72, Cl. 85-79.000.
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Canonico, Domenic A.; Cole, Nancy C.; and Houck, Clarence W., to United States of America, Atomic Energy Commission. Method for brazing graphite and other. 3,673,038, 6-27-72, Cl. 29-195.000.

Canonne, Edmond Marie: *See—*
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Canosa, Joseph Francis. Cooling vessel for beverages. 3,680,330, 8-1-72, Cl. 62-457.000.

Canrad Precision Industries, Inc.: *See—*
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Cant, Noel W.; and Hall, William K., to Gulf Research & Development Company. Propylene oxidation in the presence of rhodium metal. 3,632,833, 1-4-72, Cl. 260-604.

Cant, Noel W.; and Hall, William K., to Gulf Research & Development Company. Ethylene oxidation in the presence of iridium metal. 3,641,139, 2-8-72, Cl. 260-533.

Cant, Noel W.; and Hall, William K., to Gulf Research & Development Company. Propylene oxidation in the presence of iridium metal. 3,644,510, 2-22-72, Cl. 260-533.

Cant, Noel W.; and Hall, William K., to Gulf Research & Development Company. Oxidation of higher olefins in the presence of iridium metal. 3,644,511, 2-22-72, Cl. 260-533.

Cantagallo, Raymond E.; and Lutz, Robert J., to Sun Shipbuilding & Dry Dock Company. Apparatus for transportation of commodites. 3,699,870, 10-24-72, Cl. 98-10.000.

Cantarutti, Armindo: *See—*
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Cantarutti, Armindo, to NRM Corporation. Ply turnup and side wall applying bladder for tire building machine and method. 3,692,605, 9-19-72, Cl. 156-132.000.

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Canter, James A., to General Motors Corporation. Refrigerator with self regulating heaters. 3,633,374, 1-11-72, Cl. 62-156.

Canter, James A., to General Motors Corporation. Float actuated evaporator heater. 3,679,867, 7-25-72, Cl. 219-272.000.

Canter, Nathan H., to Esso Research and Engineering Company. Sulfonated polymers. 3,642,728, 2-15-72, Cl. 260-79.3.

Canter, Nathan H.; and Kennedy, Joseph P., to Esso Research and Engineering Company. Butyl rubber reaction products. 3,646,166, 2-29-72, Cl. 260-879.

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Canterino, Peter J., to Phillips Petroleum Company. Increasing viscosity of normally liquid hydrocarbons and gels produced. 3,658,491, 4-25-72, Cl. 44-7.

Cantonwine, Charles R. Automotive timing light to measure dwell angle. 3,694,733, 9-26-72, Cl. 324-15.000.

Cantor, Abraham; and Winicov, Murray W., to West Laboratories, Inc. Low foam detergent compositions. 3,650,965, 3-21-72, Cl. 252-106.

Cantor, Clarence; and Lowen, Irving B., to United States of America, National Aeronautics and Space Administration. Roll alignment detector. 3,637,312, 1-25-72, Cl. 356-152.

Cantor, Paul A.: *See—*
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Cantwell, Gill, to Century Data Systems, Inc. Disk file gimbal head mount. 3,702,461, 11-7-72, Cl. 340-174.10e.

Cantwell, Thomas C., Jr.; and Wilmot, Fullerton Richard D., to Hughes Aircraft Company. Cascaded digital integrator target detection system. 3,683,380, 8-8-72, Cl. 343-16.00r.

Canty, Eugene T., to International Telephone and Telegraph Corporation. Wideband receiver. 3,641,438, 2-8-72, Cl. 325-332.

Canup, Robert F. Saturable core square wave oscillator with switching transient reducing means. 3,706,052, 12-12-72, Cl. 331-113.00a.

Canziani, Victor J.: *See—*
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Capanna, Anthony. Clutch flywheel. 3,635,320, 1-18-72, Cl. 192-107.

Caparone, Michael J.: *See—*
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Caparone, Michael J.; and Dykzeul, Theodore J., to Robertshaw Controls Company. Pressure regulator construction. 3,648,726, 3-14-72, Cl. 137-505.41.

Caparone, Michael J.; Dykzeul, Theodore J.; Lynwood, Edward B.; and Braucksick, Henry C. Controller and mixer of plural fluids and methods. 3,685,541, 8-22-72, Cl. 137-599.000.

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Capaul, Marcel; and Sauter, Hermann, to Inventa AG. Process for freeing 55-85% sulphuric acid from its impurities due to metals and/or semi-metals. 3,689,217, 9-5-72, Cl. 423-531.000.

Capdevielle, Pierre; and Weissmann, Jean, to Institut Francais du Petrole, des Carburants et Lubrifiants. Safety device for the storage and distribution of liquids, particularly hydrocarbons, making use of a pressurized auxiliary fluid. 3,695,289, 10-3-72,Cl. 137-375.000.

Cape, Arthur T., to Coast Metals, Inc. Ferrous base alloy. 3,669,653, 6-13-72, Cl. 75-128.00d.

Cape, Arthur T.; to Coast Metals, Inc. Method of arc welding. 3,674,979, 74-72, Cl. 219-137.000.

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Capell, A. Earl; and Wilson, Leroy E., to Kimberly-Clark Corporation. Self bonded tissue-fiber laminate process. 3,679,515, 7-25-72, Cl. 156-309.000.

Capellaro, David F., to Coulter Electronics, Inc., mesne. Liquid borne particle sensor. 3,669,542, 6-13-72, Cl. 356-36.000.

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Caperton, Charles B. Drive for rodding machine. 3,662,421, 5-16-72, Cl. 15-104.3.

Caperton, Charles B. Drive for rodding machine. 3,673,627, 7-4-72, Cl. 15-104.3sn.

Caperton, George H., Jr. Drawing aid. 3,660,903, 5-9-72, Cl. 33-64.

Capes, Charles E.; McIlhinney, Allan E.; and Coleman, Richard D., to Canadian Patents and Development Limited. Beneficiation of coals. 3,665,066, 5-23-72, Cl. 264-117.

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Capizzi, Charles F. Alkali resistant polymers and method therefor. 3,654,252, 4-4-72, Cl. 260-92.8.

Capizzi, Victor T., to Offen, B., & Co., Inc. Air flow control structure for web driers. 3,662,476, 5-16-72, Cl. 34-156.

Caplan, Sandor: *See—*
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Caplan, Sandor; and Lamorte, Michael F., to RCA Corporation. Semiconductor laser devices utilizing light reflective metallic layers. 3,701,047, 10-24-72, Cl. 331-94.500.

Caplan, Stanley J., to Accralube Company. Anti-corrosion lubricating compound. 3,642,625, 2-15-72, Cl. 252-25.

Caples, Allen S., to Catalyst Research Corporation. Priming device. 3,665,859, 5-30-72, Cl. 102-45.

Caporali, Giorgio; Ferlazzo, Natale; and Giordano, Nicola, to Montecatini Edison S.p.A. Process for the continuous production of olefinically unsaturated nitriles. 3,691,224, 9-12-72, Cl. 260-465.300.

Caporicci, Domenico. Ski boot having a pivoted top. 3,633,291, 1-11-72, Cl. 36-2.5.

Caporiccio, Gerardo: *See—*
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Capossela, Anthony C.: *See—*
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Capote, Dagoberto T. Disposable, pre-sterilized, self-locating and piercing evacuator with ejector tube. 3,645,268, 2-29-72, Cl. 128-347.

Capowski, Julius: *See—*
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Capowski, Robert S.; Unterberger, Robert M.; and Horsman, Larry R., to International Business Machines Corporation. Input/output system with dedicated channel buffering. 3,699,530, 10-17-72, Cl. 340-172.500.

Capp, Clifford William; Harris, Brian Walton; and Hawkins, Edwin George Edward, to BP Chemicals (U.K.) Limited. Production of caprolactam. 3,676,430, 7-11-72, Cl. 260-239.301.

Capp, Clifford William; and Denbigh, Keith Warwick, to BP Chemicals (U.K.) Limited. Production of caprolactam. 3,676,431, 7-11-72, Cl. 260-239.30a.

Cappe, Carl T., to Nya Asfalt AB. Hydraulic construction and method for building same. 3,653,218, 4-4-72, Cl. 61-46.

Cappel, Fred: *See—*
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Cappel, Fred, to Republic Steel Corporation. Method of producing dicalcium ferrite sinter. 3,669,618, 6-13-72, Cl. 23-51.00r.

Cappel, Marie-Luise: *See—*
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Cappella, Michael, to Sergi Bros., Inc. Fork lift attachment. 3,667,633, 6-6-72, Cl. 214-145.000.

Capper, Harry Milton; Woolley, Harold Oakley, Jr.; Lemons, Clifton Eugene; and Wagner, Richard Maxwell, to AMP Incorporated. Belt plating apparatus. 3,661,752, 5-9-72, Cl. 204-206.

Capper, Harry Milton; and Wagner, Richard Maxwell, to AMP Incorporated. Strip processing apparatus having air locks between tanks. 3,687,104, 8-29-72, Cl. 118-405.000.

Cappotto, Samuel D.; Diamond, Herrick R.; and Zeamer, Aaron C., to SCM Corporation. Belt tension device. 3,642,109, 2-15-72, Cl. 197-17.

Cappucci, Joseph D., to Merrimac Research and Development Company. Signal splitting network wherein an output from second coupler is fed back to isolated part of first coupler. 3,660,783, 5-2-72, Cl. 333-10.000.

Cappuyns, Joseph Marie: *See—*
Duden, Emanuel Hubert; and Cappuyns, Joseph Marie, 3,661,044.

Capra, Uberto, to Societa Ceccato & C., S.p.A. Scrubbing apparatus for vehicle-washing stations. 3,633,231, 1-11-72, Cl. 15-21.

Capra, Uberto. Electrohydraulic hoist with mechanical backstop. 3,687,237, 8-29-72, Cl. 187-73.000.

Capra, Uberto. Control mechanism for horizontal vehicle-scrubbing brush. 3,688,329, 9-5-72, Cl. 15-21.00e.

Capra, Uberto. Fluid pressure gauge. 3,688,585, 9-5-72, Cl. 73-406.000.

Caprara, Giuseppe: *See—*
Messina, Giuseppe; Montorsi, Giorgio; and Caprara, Giuseppe, 3,699,133.

Caprarola, Leroy J., to RCA Corporation. Hybrid thermoelectric generator. 3,674,568, 7-4-72, Cl. 136-205.000.

Capriotti, Daniel P., Sr.: *See—*
Capachietti, Alfred J., Sr.; and Capriotti, Daniel P., Sr., 3,702,458.

Captain International Industries, Ltd.: *See—*
Comeau, Charles P., 3,636,315.

Captocap Limited: *See—*
Van Baarn, Paul S., 3,696,957.

Capuano, Charles H., to Owens-Illinois, Inc. Separator for glass articles. 3,637,073, 1-25-72, Cl. 206-65.

Capuano, Italo A., to Olin Corporation. Total mercury monitor. 3,704,097, 11-28-72, Cl. 23-230.00r.

Caputi, Roger W.; and Crawford, Wayne T., to General Electric Company. Track-registration process. 3,662,178, 5-9-72, Cl. 250-83.

Caputo, Jane, to Has-Cap, Inc. Boot support. 3,681,804, 8-8-72, Cl. 12-114.600.

Caputo, William R., to Westinghouse Electric Corporation. Elevator control device. 3,687,236, 8-29-72, Cl. 187-29.00r.

Carabateas, Philip M., to Sterling Drug Inc. 1,2-Diazabicyclo[2.2.2]-octanes. 3,644,362, 2-22-72, Cl. 260-250.

Carabateas, Philip M., to Sterling Drug Inc. N-(N-Heteryl)-acylanilides. 3,655,675, 4-11-72, Cl. 260-293.74.

Carabateas, Philip M., to Sterling Drug Inc. Certain N-(pyridyl) propionanilides. 3,679,690, 7-25-72, Cl. 260-295.0am.

Caracappa, Michael. Automatic time-controlled feeding apparatus for animals. 3,658,036, 4-25-72, Cl. 119-51.13.

Caracci, Joseph R., Jr.: *See—*
Germino, Felix J.; and Caracci, Joseph R., Jr., 3,671,269.

Caracci, Joseph Ronald: *See—*
Germino, Felix Joseph; and Caracci, Joseph Ronald, 3,637,656.

Caramella, Luigi. Automatic carrier box latch of reduced dimensions. 3,637,159, 1-25-72, Cl. 242-107.3.

Caras, Bernard; and Ogle, James A., to Burroughs Corporation. Display panel with keep alive cells. 3,654,507, 4-4-72, Cl. 313-198.

Caras, Bernard, to Burroughs Corporation. Display panel having a plurality of display registers. 3,654,508, 4-4-72, Cl. 313-198.

Caras, Bernard, to Burroughs Corporation. Display panel having electrode registration support and connection means. 3,683,222, 8-8-72, Cl. 313-51.000.

Caras, Bernard, to Burroughs Corporation. Display panel having particle source. 3,684,909, 8-15-72, Cl. 313-54.000.

Caras, Bernard, to Burroughs Corporation. Keep-alive electrode for display panel. 3,699,376, 10-17-72, Cl. 313-197.000.

Caras, Bernard, to Burroughs Corporation. Gaseous display panel with apertured, metallic strip-like, scanning cathodes. 3,700,946, 10-24-72, Cl. 313-188.000.

Carasso, Daniel, to Societe anonyme dite: Compagnie Gervais-Danone. Volume-inflated freezable product preservable in the fresh state and a process for manufacturing same. 3,674,507, 7-4-72, Cl. 99-136.000.

Caravan Products Co., Inc.: *See—*
Birnbaum, Hermann, 3,679,430.

Caraway, Guy C. Reciprocatory motion mechanism with interconnected dual actuators. 3,693,465, 9-26-72, Cl. 74-110.000.

Carbajal, Bernard G., III; Gosney, William Milton; and Hall, Lou H., to Texas Instruments, Incorporated. Complementary insulated gate field effect devices. 3,673,679, 7-4-72, Cl. 29-571.000.

Carberry, John L.; Carson, David C., Sr.; and Harrington, Edward F., to Chemetron Corporation. Multi-ply bellows structure with fluid previous spacer. 3,655,224, 4-11-72, Cl. 285-93.
Carbo, Jerry A.; and Grady, Dennis F., to Westinghouse Air Brake Company. Sludge retrieval apparatus for air pollution control systems. 3,670,477, 6-20-72, Cl. 55-227.000.
Carbonaro, Antonio: *See—*
Dall'Asta, Gino; Carbonaro, Antonio; Borghi, Italo; and Greco, Alberto, 3,682,870.
Greco, Alberto; Carbonaro, Antonio; and Dall'Asta, Gino, 3,661,869.
Carbonaro, Antonio; Greco, Alberto; Asta, Gino Dall; and Cameli, Nazzareno, to Goodrich, B. F., Company, The. Copolymers of polycyclic dienes. 3,699,088, 10-17-72, Cl. 260-79.50b.
Carbonel, Michel, to Thomson-CSF. Method of manufacturing integrated magnetic memory element. 3,650,908, 3-21-72, Cl. 204-15.
Carbonell, Emile, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method and apparatus for the generation of refrigerating energy. 3,633,373, 1-11-72, Cl. 62-79.
Carbonell, Robert J., to Standard Brands Incorporated. Tea process. 3,689,278, 9-5-72, Cl. 99-77.000.
Carbonetti, Emidio J., Jr.; and Conover, Lewis. Automated paint spray system. 3,674,207, 7-4-72, Cl. 239-69.000.
Carboni, Rudolph A.; and Pikl, Josef, to Du Pont de Nemours, E. I., and Company. Preparation of p-aminobenzoyl chloride salts. 3,681,450, 8-1-72, Cl. 260-544.00m.
Carboni, Victor B.; and Pavlovic, Jack Dale, to Consolidated Foods Corporation, mesne. Clutch for printing device. 3,682,282, 8-8-72, Cl. 192-48.910.
Carbonneau, Gordon S., to Carbonneau Industries, Inc. Test clip for electrical conductor. 3,644,877, 2-22-72, Cl. 339-108.
Carbonneau Industries, Inc.: *See—*
Carbonneau, Gordon S., 3,644,877.
Carbonnel, Henri; and Le Frere, Jean, to Groupement Atomique Alsacienne Atlantique (G.A.A.A.). Electromagnetic pump for liquid metals. 3,656,867, 4-18-72, Cl. 417-50.
Carbonnel, Henri; and Descleve, Pierre, to Groupement Atomique Alsacienne Atlantique (G.A.A.A.). Conduits for liquid metals. 3,666,295, 5-30-72, Cl. 285-41.
Carbonnel, Jack V.; Grammont, Paul D.; and Werotte, Louis E., to Diamond Shamrock Corporation. Ion exchange resins. 3,674,728, 7-4-72, Cl. 260-2.20r.
Carborundum Company, The: *See—*
Battle, James; and Phillips, Richard A., 3,691,503.
Baughman, Davis L.; and Carpenter, James H., 3,668,912.
Baughman, Davis L., 3,705,510.
Bowling, Joseph L., Jr., 3,694,964.
Buell, Halsey W., 3,676,092.
Burtch, Alfred H.; and Buell, Halsey W., 3,707,059.
Carlson, Walter H.; and Ehrenreich, Leo C., 3,657,061.
Carpenter, James H., Jr., 3,653,239.
Carpenter, James H., Jr., 3,693,296.
Chatterjee, Anil K.; and O'Grady, James R., 3,664,277.
Coss, Richard E.; and Harper, Willard J., 3,690,068.
Cottis, Steve G.; Nowak, Bernard E.; and Economy, James, 3,669,738.
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Economy, James; and Clark, Rodger A., 3,650,102.
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Economy, James; and Lin, Ruey-Yuan, 3,668,059.
Economy, James; Wohrer, Luis C.; and Mason, John H., 3,674,894.
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Harding, William R.; and Hill, Vincent G., 3,635,089.
Harper, Willard J., 3,691,690.
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Long, William W., III, 3,688,445.
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Loricchio, Domingos, 3,704,230.
McMurtry, Carl H., 3,647,558.
Miller, Robert B., Jr.; and Stephenson, Jerry E., 3,692,184.
Nowak, Bernard E.; Cottis, Steve G.; Economy, James; and Steiner, Paul J., 3,644,593.
Nowak, Bernard E.; Economy, James; and Cottis, Steve G., 3,662,052.
Nowak, Bernard E.; Cottis, Steve G.; and Economy, James, 3,668,300.
Presti, Charles Lo, 3,686,798.
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Sweet, Larrie H.; and Baker, Nelson H., Jr., 3,668,831.
Wilder, Harvey H., 3,675,374.
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Rowe, Russell L., 3,690,066.
Carbrey, Robert L., to Bell Telephone Laboratories, Incorporated. Capacitive switched gain ratio operational amplifier PCM decoder. 3,651,515, 3-21-72, Cl. 340-347.
Carbrey, Robert Lawrence, to Bell Telephone Laboratories, Incorporated. Redistribution circuit for analog to digital and digital to analog conversion and multilevel pre-equalizers. 3,651,518, 3-21-72, Cl. 340-347.
Carbrey, Robert Lawrence, to Bell Telephone Laboratories, Incorporated. Switched divider PCM coders and decoders. 3,653,030, 3-28-72, Cl. 340-347.
Carbrey, Robert Lawrence, to Bell Telephone Laboratories, Incorporated. Chord law companding pulse code modulation coders and decoders. 3,653,035, 3-28-72, Cl. 340-347.
Carby, John Gerard; and Colchester, John Edward, to Imperial Chemical Industries Limited. Manufacture of 1,1'-disubstituted-4,4'-(or-2,2'-) bipyridylium salts from 1,1'-disubstituted tetrahydrobipyridyls. 3,644,383, 2-22-72, Cl. 260-295.
Carcano, Donato: *See—*
Ragazzini, Mario; Caimi, Alberto; Carcano, Donato; and Groppelli, Giovanni, 3,668,167.
Carcel, John. Gravity operated horse racing game. 3,658,333, 4-25-72, Cl. 273-86.00c.
Carcey, Jacques, to Commissariat a l'Energie Atomique. Die-furnace, especially for the fabrication of sintered products. 3,679,807, 7-25-72, Cl. 13-27.000.
Carco, Inc.: *See—*
Abrams, Paul S.; and Peterson, Rudolph G., 3,653,596.
Abrams, Paul S.; and Peterson, Rudolph G., 3,695,216.
Card & Co., Inc.: *See—*
Card, Roy T., 3,633,523.
Gable, Larry P.; and Langley, Clyde H., 3,635,177.
Card, Charles E., Jr.; Donovan, Daniel J.; and Sweeney, William G., to Cogar Corporation. Electronic module and cap therefor. 3,684,817, 8-15-72, Cl. 174-52.00r.
Card, Roy T., to Card & Co., Inc. Tufting machine having multiple stroke needle bars. 3,633,523, 1-11-72, Cl. 112-79.
Cardarelli, Nathan F.; and Neff, Harry F., to Goodrich, B. F., Company, The. Biocidal elastomeric compositions. 3,639,583, 2-1-72, Cl. 424-125.
Cardell, Robert J.; and Harubin, Walter S., to General Electric Company. Film resistor trimmer. 3,649,801, 3-14-72, Cl. 219-68.
Cardenas, Carlos G.; and Brady, Donnie G., to Phillips Petroleum Company. Brominated adducts of acyclic trienes. 3,697,607, 10-10-72, Cl. 260-648.00c.
Carder, Frank B.; Stumpe, Warren R.; Frassetto, Bruno S.; and Bell, Charles H., to Dorr-Oliver, Incorporated. Cargo handling. 3,655,075, 4-11-72, Cl. 214-38.
Carder, Frank B.; Stumpe, Warren R.; Frassetto, Bruno S.; and Bell, Charles H., to Dorr-Oliver, Incorporated. Cargo handling. 3,655,076, 4-11-72, Cl. 214-38.
Carder, Victor H.; and Cook, Kenneth L., to Cochran Western Corporation. Container transporter apparatus. 3,675,798, 7-11-72, Cl. 214-84.000.
Cardiac Electronics, Inc.: *See—*
Ceier, Richard R., 3,653,387.
Crovella, Edward A.; and Barfield, C. Verne, 3,672,353.
Cardiac Resuscitator Corporation: *See—*
Holznagel, Melvin A., 3,703,900.
Cardic Machine Products, Inc.: *See—*
Bates, Leonard E., 3,654,662.
Cardinal Instrument Corporation: *See—*
Moran, Robert J.; and Marsilia, Louis P., 3,680,385.
Cardinal of Adrian, Inc.: *See—*
MacDonald, Robert D., 3,659,037.
Carding Specialists (Canada) Limited: *See—*
Varga, John Maximilian Jules, 3,644,964.
Cardinne, Philippe: *See—*
Renard, Michel; Cardinne, Philippe; and Manhes, Bernard, 3,702,956.
Cardona, Hernando. Ophthalmoscope. 3,664,730, 5-23-72, Cl. 351-6.
Cardozo, Benjamin Lopes; Admiraal, Daniel Johannes Hindericus; and Domburg, Gerrit, to U.S. Philips Corporation. Method of testing magnetic recording carriers for defects in the magnetic layer. 3,659,195, 4-25-72, Cl. 324-34.
Carduck, Franz Josef: *See—*
Dorschner, Oskar; Carduck, Franz Josef; Storkebaum, Christoph; and Rother, Claus, 3,655,862.
Dorschner, Oskar; Carduck, Franz Josef; and Storkebaum, Christoph, 3,692,618.
Cardwell, Gilbert I., Jr., to United States of America, Air Force, mesne. D. C. converter having control transistor in blocking oscillator feedback. 3,671,773, 6-20-72, Cl. 307-275.000.
Cardwell Machine Company, The: *See—*
Bonner, Charles W., Jr.; and Houck, Curtis T., 3,696,817.
Cardwell Oil Corporation Ltd. (N.P.L.), mesne: *See—*
Rice, Dale E., 3,644,681.
Care Electronics, Inc.: *See—*
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Care, Inc.: *See—*

Lang, Jerry M., 3,707,128.
Caretta, Renato; and Pacciarini, Antonio, to Industrie Pirelli S.p.A., mesne. Process for curing pneumatic tires. 3,674,899, 7-4-72, Cl. 264-315.000.
Carey, Donald W.: *See—*
Willson, James R.; and Carey, Donald W., 3,652,969.
Carey, E. A., Pipe Company: *See—*
Doppelt, Max J., 3,646,941.
Carey, James; and Citrin, Jay E. Automatic voltage booster. 3,668,512, 6-6-72, Cl. 323-45.000.
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Colchester, John Edward; Carey, John Gerard; and Taylor, Michael David, 3,674,797.
Colchester, John Edward; Cairns, John Francis; and Carey, John Gerard, 3,696,113.
Carey, Lewis S.; and Mansour, George L., to Litton Medical Products, Inc. Mobile fluoroscopic unit for bedside catheter placement. 3,702,935, 11-14-72, Cl. 250-58.000.
Carey Machine and Supply Company: *See—*
Carey, Paul P., 3,664,441.
Carey, Michael Albert: *See—*
Gee, Davis William; and Carey, Michael Albert, 3,682,049.
Carey, Paul P., to Carey Machine and Supply Company. Concentric pipe drill string. 3,664,441, 5-23-72, Cl. 175-215.000.
Carey Press Corporation: *See—*
Friedman, Arthur S., 3,700,264.
Carey, Ralph A., to Chevron Research Company. Synthetic lubricating oil stock production. 3,637,483, 1-25-72, Cl. 208-86.
Carey, Ralph A.; and Jacobson, Robert L., to Chevron Research Company. Cyclic hydrogenation-reforming. 3,660,275, 5-2-72, Cl. 208-138.
Carey, Raymond L.: *See—*
McConnell, William M.; Bradley, William H.; Chappel, Howard E.; Whitfield, George P.; and Carey, Raymond L., 3,701,336.
Carfora, Joseph. Lavatory-water closet combination. 3,696,448, 10-10-72, Cl. 4-3.000.
Cargile, William P., to Biomation, Inc. Transient recorder. 3,662,380, 5-9-72, Cl. 340-347.
Cargill, Incorporated: *See—*
Jameston, Richard A.; and Mickus, James C., 3,632,759.
McNeff, Larry Cecil, 3,677,767.
Cargill, Norman Allen, to Peripheral Dynamics Inc. Print hammer mechanism with magnetic reinforcement to cath hammer. 3,707,122, 12-26-72, Cl. 101-93.00c.
Carides, James Nicholas: *See—*
Bagley, Brian G.; and Carides, James Nicholas, 3,669,643.
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Caringi, Remo N., to Portec, Inc. Idler for channel tiedown track. 3,658,012, 4-25-72, Cl. 105-368.
Carinhas, Jack G., Jr.: *See—*
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Carini, Eugene P. Fluid driven electrical power apparatus. 3,697,765, 10-10-72, Cl. 290-54.000.
Carino, John W., to General Electric Company. Electrolytic capacitor having integral bleeder resistor. 3,644,796, 2-22-72, Cl. 317-230.
Carissimi, Massimo; and Ravenna, Franco. 5,7-Bichloro-8-hydroxy 2 acetylamino quinoline. 3,682,927, 8-8-72, Cl. 260-287.00r.
Carissimi, Vincent L., to Hubbell, Harvey, Incorporated. Grounding wheel for grounding electrical devices. 3,649,947, 3-14-72, Cl. 339-14.
Caristi, Robert F.; and Leonard, Donald A., to Avco Corporation. Pulsed laser device with improved discharge circuit. 3,633,127, 1-4-72, Cl. 331-94.5.
Cariven, Andre Raymond Daniel. Manufacturing process for a file folder. 3,668,979, 6-13-72, Cl. 93-1.
Carkhuff, Donald Wesley; and McGinty, Harry Charles, to Union Carbide Corporation. Cutting and gouging electrode holder. 3,659,072, 4-25-72, Cl. 219-70.
Carl, Christopher: *See—*
United States of America, National Aeronautics and Space Administration, 3,701,894.
Carl, David G.; Kietzman, Richard C.; and Knapp, William A., to Owens-Illinois, Inc. Device for masking the closable area of a container during the coating of the container. 3,631,837, 1-4-72, Cl. 118-504.
Carl, Heinz, to Licentia Patent-Verwaltungs-G.m.b.H. Battery. 3,664,876, 5-23-72, Cl. 136-160.
Carl, Klaus Fredrich Leonhard; and Hardtl, Karl Heinz, to U.S. Philips Corporation. Ceramic bodies for electromechanical transducer. 3,684,714, 8-15-72, Cl. 252-62.900.
Carl, Robert C.: *See—*
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Carl, William P.: *See—*
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Carl Zeiss-Stiftung; a/k/a Carl Zeiss: *See—*
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Carl Zeiss-Stiftung; d/b/a Zeiss, Carl: *See—*
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Carle, Ross C., to ACF Industries, Incorporated. Fluid dampened railway bolster spring. 3,701,322, 10-31-72, Cl. 105-197.00b.
Carlen, Jan-Christer Henric Ovesson; and Bergqvist, Claes Bertil, to Sandvikens Jernverks Aktiebolag. Corrosion-resistant razor blades. 3,672,877, 6-27-72, Cl. 75-126.00c.
Carleton, John T., to Du Pont de Nemours, E. I., and Company. Apparatus for vacuum metallizing. 3,683,847, 8-15-72, Cl. 118-48.000.
Carleton, Lee T.: *See—*
Witz, Samuel; Carleton, Lee T.; Anderson, Howard H.; Moyer, Rudolph H.; and Neufeld, Harold A., 3,690,837.
Carleton, Peter S.; Farrissey, William J., Jr.; and Rose, James S., to Upjohn Company, The. Catalytic preparation of polyimides from polyisocyanates. 3,701,756, 10-31-72, Cl. 260-78.0tf.
Carleton, Peter S.; and Farrissey, William J., Jr., to Upjohn Company, The. Adducts of ethylene carbonate and triethylenediamine. 3,703,520, 11-21-72, Cl. 260-268.00t.
Carleton, Robert S.: *See—*
De Palma, Ted V.; and Carleton, Robert S., 3,644,098.
Carley-Macauly, Kenneth Wallace: *See—*
Hills, Peter Robert; Spindler, Michael William; and Carley-Macauly, Kenneth Wallace, 3,661,745.
Carli, Alvin J., to Alliance Manufacturing Company, Inc., The. Reversing door operator. 3,694,664, 9-26-72, Cl. 307-149.000.
Carli, Roberto; and Gordini, Silvano, to Snam Progetti S.p.A. Method for regulating the temperature and the conversion in a polymerization reactor and apparatus suitable to realize the same. 3,705,787, 12-12-72, Cl. 23-230.00a.
Carlick, Daniel J.: *See—*
Bassemir, Robert W.; Carlick, Daniel J.; and Nass, Gerald I., 3,661,614.
Gruben, Arnold H.; and Carlick, Daniel J., 3,639,313.
Carlier, Claude, to Saunier Duval. Continuous elevators having automatic charging and discharging. 3,633,726, 1-11-72, Cl. 198-20.
Carlier, Claude. Dispatch and reception station for pneumatic transmissions. 3,706,428, 12-19-72, Cl. 243-19.000.
Carlile, Alfred E.: *See—*
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Carlile, Alfred E.; and Cox, Bernard H., to Textron, Inc. Molded plastic snap fastener and strip of components therefor. 3,685,105, 8-22-72, Cl. 24-213.000.
Carlile, Clayton George: *See—*
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Carlin Container Corporation: *See—*
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Carlin, Ralph E.; and Rigg, Ralph R., to General Motors Corporation. Defrost water drain trap. 3,696,632, 10-10-72, Cl. 62-285.000.
Carling, Conrad I., to Carling Electric Inc. Toggle actuator assembly for electric switch. 3,641,291, 2-8-72, Cl. 200-67.
Carling Electric Inc.: *See—*
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Sorenson, Richard W., 3,701,870.
Sorenson, Richard W., 3,706,869.
Carlini, Dominique, to Recherches et Applications des Plastiques Dans l'Industrie et le Batiment, S.A. Apparatus for forming cylindrical tanks. 3,652,366, 3-28-72, Cl. 156-443.
Carlino, Anthony L. Spherical golf club head. 3,637,218, 1-25-72, Cl. 273-168.
Carlise, Robert L., to North American Rockwell Corporation. RF-excited transducer. 3,634,756, 1-11-72, Cl. 324-58.5.
Carlisle Chemical Works, Inc.: *See—*
Dworkin, Robert D.; and Stapfer, Christian H., 3,649,577.
Hechenbleikner, Ingenuin; Hussar, John F.; and Bresser, Robert E., 3,632,650.
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Stapfer, Christian H., 3,649,576.
Stapfer, Christian H.; and D'Andrea, Richard W., 3,649,663.
Stapfer, Christian H.; and D'Andrea, Richard W., 3,666,772.
Carlisle, Dennis Richard, to Rolls-Royce Limited. Fuel injector for a gas turbine engine. 3,690,093, 9-12-72, Cl. 60-39.74r.
Carlisle, Dennis Richard, to Rolls-Royce Limited. Fuel injector for a gas turbine engine. 3,691,765, 9-19-72, Cl. 60-39.740.

Carlisle, Richard S. Precise depth cutter. 3,670,733, 6-20-72, Cl. 128-305.000.
Carlisle Tire and Rubber Division: *See—*
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Carlo, Armando: *See—*
Jungermann, Eric; Herrick, Aaron B.; and Carlo, Armando, 3,650,831.
Carlo, L. Diaz: *See—*
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Carlo Tassara S.p.A. Stabilimenti Elettrosiderurgici: *See—*
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Carlon Engineering Company, Incorporated: *See—*
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Burk, Emmett H., Jr.; and Carlos, Donald D., 3,649,636.
Burk, Emmett H., Jr.; and Carlos, Donald D., 3,658,805.
Carlos, Donald Dante; and Shimp, David Alan, to Celanese Coatings Company. Oximes as accelerators for the amine curing of epoxy resins. 3,703,497, 11-21-72, Cl. 260-47.5en.
Carlough, Warren A.: *See—*
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Carlsen, Donald W.; Kotla, John J.; and Parker, Arden A., to International Business Machines Corporation. Document with chemically developable precisely defined alphanumeric characters. 3,676,646, 7-11-72, Cl. 235-61.12n.
Carlsen, Earl W., to Food Industries Research & Engineering, Inc. Installation for the filling of pallets with fruit or other easily damaged products. 3,694,996, 10-3-72, Cl. 53-35.000.
Carlsen, Jon E. M. Metal casting apparatus. 3,643,732, 2-22-72, Cl. 164-309.
Carlsmith, Lawrence A.; and Hartz, Kenneth E., to Improved Machinery Inc. Aerating apparatus and method. 3,680,845, 8-1-72, Cl. 261-37.000.
Carlsmith, Lawrence Allan: *See—*
Rich, John Parker; and Carlsmith, Lawrence Allan, 3,700,548.
Carlson, Alfred D.; and Kasper, Joseph G., to Tennant Company. Filter chamber. 3,639,940, 2-8-72, Cl. 15-352.
Carlson, Arthur E., to Winpower Manufacturing Company. Polarity control system. 3,659,183, 4-25-72, Cl. 320-25.
Carlson, Arthur H. Probe type die cooling arrangement. 3,667,248, 6-6-72, Cl. 62-225.000.
Carlson, Arthur, Jr.: *See—*
Urton, John T.; Glass, Max E.; Donahue, Stephen F.; and Carlson, Arthur, Jr., 3,639,577.
Carlson, Arthur, Jr., to Haver-Lockhart Laboratories, Incorporated. Method of administering amino acids to convalescing livestock and composition therefor. 3,699,219, 10-17-72, Cl. 424-14.000.
Carlson, Arthur W., to Velsicol Chemical Corporation. Process for preparing a methano-poly-cyclic hydroquinone. 3,678,116, 7-18-72, Cl. 260-619.00f.
Carlson, Bernard C.; and Hutchins, Francis E., to Vanderbilt, R. T., Company, Inc. Stable aqueous anti-dandruff shampoo containing captan. 3,671,634, 6-20-72, Cl. 424-274.
Carlson, Bernard E. Bulk material handling vehicle and unloading boom therefor. 3,642,155, 2-15-72, Cl. 214-83.26.
Carlson, Carl B.; McKeeman, William M.; and Price, William C., to Burroughs Corporation. Address manipulation circuitry for a digital computer. 3,699,528, 10-17-72, Cl. 340-172.500.
Carlson, Carl M. Valve. 3,706,322, 12-19-72, Cl. 137-625.660.
Carlson, Carl O.; Bernstein, Herbert L.; and Franco, Albert J., to National Cash Register Company, The. Semiconductor diode laser recorder. 3,656,175, 4-11-72, Cl. 346-76.
Carlson, Carl W.: *See—*
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Carlson, Clarence A., to Northern Engraving Company. Method of electrodepositing coral copper on copper foil. 3,699,018, 10-17-72, Cl. 204-52.00r.
Carlson, Clarence C.; and Duquaine, Gordon L., to Build-All Fabricating, Inc. Parts washer and method of solvent cleaning. 3,707,404, 12-26-72, Cl. 134-10.000.
Carlson, Dana Peter, to Du Pont de Nemours, E. I., and Company. Tough, stable tetrafluoroethylene-fluoroalkyl perfluorovinyl ether copolymers. 3,642,742, 2-15-72, Cl. 260-87.5.
Carlson, Dana Peter, to Du Pont de Nemours, E. I., and Company. Stabilized tetrafluoroethylene-fluoroolefin copolymers having methyl ester end-groups and process for producing same. 3,674,758, 7-4-72, Cl. 260-87.5.
Carlson, David John, to RCA Corporation. Electronically tuned ultra high frequency television tuner. 3,649,937, 3-14-72, Cl. 334-15.
Carlson, David John, to RCA Corporation. Mixer circuit. 3,694,756, 9-26-72, Cl. 325-451.000.
Carlson, David P.; and Reid, Jerome L., to Polaroid Corporation. Photographic diffusion-transfer products comprising divalent metal-complexed antifoggant precursors and processes for their use. 3,649,267, 3-14-72, Cl. 96-3.
Carlson, Donovan R.; and Maruska, William O., to Honeywell Inc. Fuze apparatus. 3,640,225, 2-8-72, Cl. 102-79.
Carlson, Duane G., to International Business Machines Corporation. Laser beam scanner. 3,633,994, 1-11-72, Cl. 350-160.
Carlson, Earl J.; and Horne, Samuel E., Jr., to Goodrich-Gulf Chemicals, Inc. Polymeric material and method of preparing same. 3,657,209, 4-18-72, Cl. 260-94.3.
Carlson, Edgar; and Lehrian, William R., to Gulf Research & Development Company. Method for stabilizing hydrodesulfurized oil. 3,666,659, 5-30-72, Cl. 208-208.
Carlson, Edgar; and Lehrian, William R., to Gulf Research & Development Company. Hydrodesulfurization utilizing multiple hydrogen recycle streams. 3,676,333, 7-11-72, Cl. 208-209.000.
Carlson, Edwin S.: *See—*
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Carlson, Elmer T., to Broadhill Development Corporation. Electrical conduit system. 3,644,663, 2-22-72, Cl. 174-88.
Carlson, Elmer Victor; and Killion, Mead Clifford, to Industrial Research Products, Inc. Acoustic transducer having diaphragm pivoted in its surround. 3,701,865, 10-31-72, Cl. 179-181.00r.
Carlson, Emil H.; Hammann, William C.; and Schisla, Robert M., to Monsanto Company. Quaternary substituted hydrocarbons. 3,666,827, 5-30-72, Cl. 260-676.
Carlson, Eric A. Material handling device. 3,699,900, 10-24-72, Cl. 108-53.000.
Carlson, Ernest C.; Howells, Arthur J., Jr.; Jennings, Marvin D.; Eastman, Donald R.; and Sheets, Edward G., to International Harvester Company. Control system for material handling equipment. 3,698,580, 10-17-72, Cl. 214-138.00r.
Carlson, Ernest R.; Mackiewicz, Czeslaw; and Mirmina, Paul C., to Hubbell, Harvey, Incorporated. Portable ground fault interrupter apparatus. 3,663,864, 5-16-72, Cl. 317-101.
Carlson, Eugene E.: *See—*
Schuning, Kenneth W.; and Carlson, Eugene E., 3,699,773.
Carlson, Franklin B.: *See—*
Barney, John H.; and Carlson, Franklin B., 3,691,056.
Carlson, George R. Balanced arbor assembly for buffing and like machine. 3,662,620, 5-16-72, Cl. 74-573.
Carlson, Gilbert Fritz, to International Telephone and Telegraph Corporation. Hydraulic valve with fluid meter connections. 3,695,105, 10-3-72, Cl. 73-211.000.
Carlson, Gordon A.: *See—*
Mitchell, Robert F.; and Carlson, Gordon A., 3,655,344.
Carlson, Gordon A., to PPG Industries, Inc. Purification of brine. 3,647,653, 3-7-72, Cl. 204-130.
Carlson, Gordon A., to PPG Industries, Inc. Recovery of metals from solution. 3,650,925, 3-21-72, Cl. 204-153.
Carlson, Gordon S.: *See—*
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Carlson, Harold A.: *See—*
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Carlson, Harold C. Impact clam extractor. 3,688,344, 9-5-72, Cl. 17-53.000.
Carlson, Harold C. R. Spring tester. 3,675,479, 7-11-72, Cl. 73-161.000.
Carlson, Harold G.; Fuller, Clyde R.; and Brown, George A., to Texas Instruments, Incorporated. Method for increasing the stability of semiconductor devices. 3,632,438, 1-4-72, Cl. 117-215.
Carlson, Heinz F.; Isaac, George L.; and Mosely, Graham H., to Signetics Corporation. Method and apparatus for aligning and breaking wafers. 3,687,345, 8-29-72, Cl. 225-1.000.
Carlson, Herbert Neil, to Bell Telephone Laboratories, Incorporated. Locked oscillator circuits. 3,676,786, 7-11-72, Cl. 329-122.000.
Carlson, John A.: *See—*
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Carlson, John A.; Hoff, Dale R.; and Rooney, Clarence S., to Merck & Co., Inc. 1-Substituted-nitroimidazol-2-yl-alkyl carbamates. 3,646,027, 2-29-72, Cl. 260-247.2.
Carlson, John A., to Conchemo, Incorporated. Throttle kill switch. 3,694,596, 9-26-72, Cl. 200-61.870.
Carlson, John David, to Koppers Company, Inc. Integrated insulated and weatherproof roof system. 3,677,878, 7-18-72, Cl. 161-160.000.
Carlson, John H.; Mansfield, Donald L.; and Robinson, Hugh A., to USM Corporation. Pneumatic counterbalancers. 3,641,706, 2-15-72, Cl. 49-324.
Carlson, John W. Butter applicator. 3,652,171, 3-28-72, Cl. 401-12.
Carlson, Kenneth G. Pallet loading apparatus. 3,669,282, 6-13-72, Cl. 214-6.00p.
Carlson, Lee Allen, to Dennison Manufacturing Company. Electrophotographic reproduction sheet and composition containing photoconductive material and coarse filler particles. 3,674,477, 7-4-72, Cl. 96-1.800.
Carlson, Lee Allen; and Miekka, Richard George, to Dennison Manufacturing Company. Microelectrophotographic sheet. 3,695,874, 10-3-72, Cl. 96-1.800.
Carlson, Lowell D.: *See—*
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Carlson, Marvin J.: *See—*

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Carlson, Morris William. Lawnmower. 3,656,285, 4-18-72, Cl. 56-244.

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Carlson, Paul O.; Cohan, Allan N.; and Gray, Jack C., to General Foods Corporation, mesne. Clouding agent. 3,658,552, 4-25-72, Cl. 99-78.

Carlson, Peter T.; Weremey, Frederick J.; and Mitchell, Edward B., to TRW Inc., mesne. Magnetic switch system. 3,662,288, 5-9-72, Cl. 335-192.

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Carlson, Richard A., to General Motors Corporation. Vehicle daytime running lights. 3,706,005, 12-12-72, Cl. 315-82.000.

Carlson, Richard D.: *See—*
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Carlson, Richard K.; and Koeber, Henry J., to Bell & Howell Company. Film footage indicator. 3,650,611, 3-21-72, Cl. 352-172.

Carlson, Richard K., to Bell & Howell Company. Automatic filter actuator for a cartridge load camera. 3,673,934, 7-4-72, Cl. 95-11.000.

Carlson, Robert A.; and Foley, Thomas P. Reel-to-reel tape storage apparatus. 3,672,600, 6-27-72, Cl. 242-186.000.

Carlson, Robert J.; and Reymann, Royal A., Jr., to United States of America, Army. Electric impact switch. 3,673,362, 6-27-72, Cl. 200-61.45r.

Carlson, Robert L.; and Madland, Rolf A., to Miner Enterprises, Inc. Hydraulic friction draft gear. 3,638,807, 2-1-72, Cl. 213-22.

Carlson, Robert Philip; and Oelschlaeger, George Frederick, to Deere & Company. Safety lock for a linear fluid pressure actuator. 3,662,653, 5-16-72, Cl. 92-15.000.

Carlson, Ronald H., to Hooker Chemical Corporation. Trishydroxymethyl phosphine oxide from phosphine and formaldehyde. 3,636,160, 1-18-72, Cl. 260-606.5.

Carlson, Ronald H., to Hooker Chemical Corporation. Synergistic metal sequestrant. 3,655,573, 4-11-72, Cl. 252-180.

Carlson, Ronald H., to Hooker Chemical Corporation. Synergistic metal sequestrant. 3,661,953, 5-9-72, Cl. 260-439.

Carlson, Ronald H., to Hooker Chemical Corporation. Synergistic metal sequestrant. 3,661,960, 5-9-72, Cl. 260-439.

Carlson, Ronald H., to Hooker Chemical Corporation. Tetrakis(hydroxymethyl) phosphonium chloride from phosphine and formaldehyde. 3,666,817, 5-30-72, Cl. 260-606.50f.

Carlson, Ronald H., to Hooker Chemical Corporation. Synergistic metal sequestrant. 3,677,956, 7-18-72, Cl. 252-180.000.

Carlson, Ronald H., to Hooker Chemical Corporation. Method for cleaning aluminum employing phosphine oxides. 3,681,140, 8-1-72, Cl. 134-2.000.

Carlson, Sharon L.; and Salado, Jenny M. Collapsible utility table. 3,665,867, 5-30-72, Cl. 108-25.

Carlson, Walter H.; and Ehrenreich, Leo C., to Carborundum Company, The. Reinforced carbon and graphite bodies. 3,657,061, 4-18-72, Cl. 161-81.

Carlson, Wilbur E. Print holder device. 3,688,679, 9-5-72, Cl. 95-100.000.

Carlson, William: *See—*
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Carlson, William C. Plant cover. 3,678,619, 7-25-72, Cl. 47-29.000.

Carlsson, Anders Kjell Johan; Jorgensen, Anders Ossian; Olsson, Olof Alarik; and Ziegler, Horst Robert Adolf, to Telefonaktiebolaget L M Ericsson. Combined loud- and low-speaking telephone instrument having two acoustic converters. 3,659,050, 4-25-72, Cl. 79-1.

Carlsson, Bengt; and Sundberg, Mauritz R. G., to Aktiebolaget Motala Verkstad. System for manufacturing particle board or the like. 3,692,612, 9-19-72, Cl. 156-375.000.

Carlsson, Bengt J., to Aktiebolaget Motala Verkstad. Method of making rigid particle boards or the like. 3,649,396, 3-14-72, Cl. 156-62.2.

Carlsson, Bengt J.; and Sundberg, Mauritz R. G., to Aktiebolaget Motala Verkstad. Arrangement in heat presses. 3,650,203, 3-21-72, Cl. 100-93.

Carlsson, Bengt J., to Aktiebolaget Motala Verkstad. Method for dividing a main stream of particles into part streams and apparatus for carrying out the method. 3,652,131, 3-28-72, Cl. 302-28.

Carlsson, Eric Harald. Method and apparatus for concentrating solutions or suspensions or for recovering the dry substance thereof. 3,653,424, 4-4-72, Cl. 159-16.

Carlsson, Konrad Valdemar, to Stenberg-Flygt AB. Pump unit. 3,656,871, 4-18-72, Cl. 417-361.

Carlsson, Lars Anders Fritz; Helgstrand, Ake John Erik; Sjoberg, Berndt Olof Harald; and Stjernstrom, Nil Erik, to Aktiebolaget Astra. 5-Fluoro-3-pyridinemethanol esters thereof and therapeutically acceptable salts thereof. 3,637,714, 1-25-72, Cl. 260-294..

Carlsson, Per Arvid Emil: *See—*
Brandstrom, Arne Elof; Carlsson, Per Arvid Emil; Carlsson, Stig Ake Ingemar; Corrodi, Hans Rudolf; Ek, Lars; Lamm, Bo Robert; and Ablad, Bengt Arne, 3,674,840.

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Carlsson, Per Arvid Emil; Corrodi, Hans Rudolf; Hallhagen, Sven Goran; and Junggren, Ulf Krister, to Aktiebolaget Hassle. 1-(3-Hydroxy-4-methyl-phenyl)-propylamine (-2) and the salts thereof. 3,655,737, 4-11-72, Cl. 260-501.17.

Carlsson, Sixten Einar, to Borgs Fabriks AB. Path having variable resistance to vehicles moving on it. 3,659,812, 5-2-72, Cl. 244-114.00r.

Carlsson, Stig Ake Ingemar: *See—*
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Carlton, Berl L.: *See—*
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Carlton Machine Tool Company, The: *See—*
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Carluccio, Frank; and Chiddix, Max Eugene, to GAF Corporation. Recovery of hydroxyalkyl vinyl ethers. 3,657,360, 4-18-72, Cl. 260-615.

Carlyon, Richard A., Jr. Agricultural apparatus. 3,638,860, 2-1-72, Cl. 239-127.

Carlyon, Richard A., Jr. Agricultural apparatus. 3,658,258, 4-25-72, Cl. 239-662.000.

Carmack, Carl J.: *See—*
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Carmack, Tim. Combination book mark and reading guide. 3,690,295, 9-12-72, Cl. 116-119.000.

Carman, Alexander J., to Stevens, J. P., & Co., Inc. Apparatus for feeding filling threads to a warp knitting machine. 3,699,783, 10-24-72, Cl. 66-84.000.

Carman, Kenneth K., to Koppers Company. Gear type coupling. 3,673,814, 7-4-72, Cl. 64-8.000.

Carman, Kenneth K., to Koppers Company, Inc. Hub-to-shaft connector and method for couplings. 3,702,200, 11-7-72, Cl. 287-52.050.

Carman, Philip D.: *See—*
Blachut, Theodore J.; Smialowski, Antoni J.; Schut, Gerhardus H.; and Carman, Philip D., 3,692,405.

Carman, Richard Jan, to Cameron Iron Works, Inc. Optically coupled control circuit. 3,696,288, 10-3-72, Cl. 323-21.000.

Carmel, Edwin L.: *See—*
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Carmellini, Andrew E.; and James, Robert E., to U.S. Plywood-Champion Papers Inc. Method of making a three dimensional multi-layer panel. 3,681,165, 8-1-72, Cl. 156-297.000.

Carmen, Jerry: *See—*
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Carmen, Raleigh A., to Cutter Laboratories, Inc. Method of coating glass containers. 3,690,928, 9-12-72, Cl. 117-97.000.

Carmen, William L. Game apparatus. 3,652,087, 3-28-72, Cl. 273-1.

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Phillips, William H., Jr., 3,680,340.
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Schnellmann, Oscar; and Stier, Henry Willy, 3,688,451.
Sowko, John J., Sr., 3,672,881.
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Carmichael, Alan, to Efco Limited. Conveyors. 3,674,130, 7-4-72, Cl. 198-195.

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Pogonowski, Ivo C.; and Carmichael Paul D., 3,695,047.

Carmody, Dewey Blaine, to Lee, Raymond, Organization, Inc., The. Bandage. 3,687,136, 8-29-72, Cl. 128-156.000.

Carmody, Michael A., to United States of America, Army. Pulse responsive counting circuits. 3,686,633, 8-22-72, Cl. 340-168.000.
Carmody, William D.; Thompson, Charles J.; and Butzler, George J., to Dow Chemical Company, The. Continuous process for making expandable thermoplastic resin compositions. 3,673,126, 6-27-72, Cl. 260-2.50e.
Carmona, Delio; Diamond, Harvey; and Maliga, Joachim, to Countronic Corporation. Ultrasonic tool. 3,654,502, 4-4-72, Cl. 310-26.
Carmouche, William Jeter. Fish-growing aquarium. 3,638,616, 2-1-72, Cl. 119-5.
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Carnel, Alain, to Compagnie des Compteurs. Device for converting two magnitudes into a number of pulses proportional to the integral of their product. 3,648,182, 3-7-72, Cl. 328-160.
Carnell, Brian Leyland, to United Aircraft Corporation. Torsion bushing. 3,689,052, 9-5-72, Cl. 267-57.100.
Carnell, Victor V.: *See—*
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Dugge, Richard H.; and Carney, John L., Jr., 3,701,460.
Carney, John L., Jr.; and Schipper, Dennis J., to ACF Industries, Incorporated. Easily removable fluid permeable structure for aerated hopper discharge outlets. 3,659,752, 5-2-72, Cl. 222-195.
Carney, Murray C.; and Speicher, Ellis, III, to Sangamo Electric Company. Tape transport apparatus. 3,667,700, 6-6-72, Cl. 242-189.000.
Carney, Richard William James; and De Stevens, George, to Ciba Corporation. Tertiary amino phenyl acetic acids. 3,641,040, 2-8-72, Cl. 260-293.4.
Carney, Richard William James, to Ciba Corporation. 2-Amino-4-aryl-3,4-dihydroquinolines. 3,647,802, 3-7-72, Cl. 260-288.
Carney, Richard William James; and deStevens, George, to Ciba Corporation. α-(Tert. aminophenyl)-aliphatic acids. 3,657,230, 4-18-72, Cl. 260-239.
Carney, Richard William James, to Ciba-Geigy Corporation. 2-Amino-4-aryl-quinolines. 3,668,207, 6-6-72, Cl. 260-286.00r.
Carney, Richard William James; and De Stevens, George, to Ciba-Geigy Corporation. Tertiary aminoacids. 3,692,819, 9-19-72, Cl. 260-471.00r.
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Carns, Leroy J., to Singer Company, The. Finishing boring head. 3,664,755, 5-23-72, Cl. 408-159.000.
Carnt, Peter Swift; and Schiess, George, to RCA Corporation. Television apparatus responsive to a transmitted color reference signal. 3,673,320, 6-27-72, Cl. 178-5.4he.
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Carol Company: *See—*
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Caroli, Italo, to DBM Industries Limited. Electrode guide. 3,639,719, 2-1-72, Cl. 219-69.
Caroli, Italo, to DMS Industries Limited. Stapler device. 3,646,801, 3-7-72, Cl. 72-410.
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Carolina Narrow Fabric Company: *See—*
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Caron, Charles D. Controlled trampoline structure. 3,635,471, 1-18-72, Cl. 272-65. .
Caron, Jean, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Machine for opening cartons. 3,695,151, 10-3-72, Cl. 93-53.0bf.
Caron, Paul R., to United States of America, National Aeronautics and Space Administration. Logarithmic function generator utilizing an exponentially varying signal in an inverse manner. 3,648,043, 3-7-72, Cl. 235-197.
Caroselli, Remus F.; Mastrianni, Vincenzo; and Boyes, David W., to Owens-Corning Fiberglas Corporation. Method of fabric finishing. 3,632,380, 1-4-72, Cl. 117-37.
Caroselli, Remus F.; Mastrianni, Vincenzo; and Boyes, David W., to Owens-Corning Fiberglas Corporation. Fabric finishing method and fabric. 3,649,333, 3-14-72, Cl. 117-45.
Carossi, Jean-Claude; Dufayet, Jean-Pierre; and Dujardin, Roger. Frequency controlled Hartley oscillator circuit for non-destructive eddy current testing of an electrically conductive material. 3,697,868, 10-10-72, Cl. 324-40.000.
Carothers, Charles H.; and Bogner, Philip W., to Westinghouse Electric Corporation. Lightning arrester with pressure relief means. 3,644,791, 2-22-72, Cl. 317-66.
Carothers, Charles H.; and Kelly, Robert M., to Westinghouse Electric Corporation. Electrical disconnector. 3,679,938, 7-25-72, Cl. 317-61.000.
Carothers, Charles H.; and Bogner, Philip W., to Westinghouse Electric Corporation. Lightning arrester with pressure relief means. 3,702,419, 11-7-72, Cl. 317-61.000.
Carothers, Olen E.; and Hinkle, Oliver E. Dispensing system for beverages and other liquids. 3,664,550, 5-23-72, Cl. 222-129.2.
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Carouge, Frithjof: *See—*
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Carp, Ralph W.: *See—*
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Slavin, Michael; and Carp, Ralph W., 3,669,403.
Carp, Ralph W.; and Miesterfeld, Frederick O., to Bendix Corporation, The. Means for delaying effective control of vehicle braking by an adaptive braking system until certain wheel velocity and deceleration conditions have been satisfied. 3,640,588, 2-8-72 Cl. 303-21.
Carp, Ralph W.; and Miesterfeld, Frederick O., to Bendix Corporation, The. Skid control system cycling and checking circuit, including drift prevention means. 3,667,812, 6-6-72, Cl. 303-21.0af.
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Carpano & Pons. SA.: *See—*
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Carpay, Franciscus Marinus Anna; and Van Run, Adrianus Martinus Jacobus Gerardus. Method of manufacturing lamellar composites. 3,694,193, 9-26-72, Cl. 75-129.000.
Carpenter, Austin T.: *See—*
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Carpenter, Austin T.; Garrington, Roy; and Harrison, Keith W., to USM Corporation. Polyurethane and adhesive solution of a polyurethane. 3,658,939, 4-25-72, Cl. 260-858.
Carpenter, Charles W., to Hercules Incorporated. Pile fabric and method of making the same. 3,640,786, 2-8-72, Cl. 156-73.
Carpenter, David B.: *See—*
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Carpenter, David B.; and Thompson, Edward A., to Ashland Oil, Inc. Method for producing naphthalene. 3,697,414, 10-10-72, Cl. 208-85.000.
Carpenter, David Harry: *See—*
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Carpenter, David W.; and Rodgers, Charley R., to United States of America, Navy. Propellant grain. 3,700,762, 10-24-72, Cl. 264-3.000.
Carpenter, Douglas D. Lotion applicator. 3,699,980, 10-24-72, Cl. 132-88.700.
Carpenter, Earl W.; and Hill, Jerome E., to Radiation Systems, Inc. Wide bandwidth microwave mixer circuits. 3,634,768, 1-11-72, Cl. 325-446.
Carpenter, Edith W.: *See—*
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Carpenter, Harry M., Jr. Slip pallet lifter. 3,640,405, 2-8-72, Cl. 214-1.

Carpenter, James H.: *See—*
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Carpenter, James H., Jr., to Carborundum Company, The. Centrifugal blast wheel. 3,653,239, 4-4-72, Cl. 72-53.

Carpenter, James H., Jr., to Carborundum Company, The. Workpiece treating apparatus. 3,693,296, 9-26-72, Cl. 51-13.000.

Carpenter, Keith H., to General Motors Corporation. Depressed park windshield wiper system. 3,705,520, 12-12-72, Cl. 74-600.000.

Carpenter, Mark E.; and Smithgall, Harry E., to GTE Sylvania Incorporated. Cathode ray tube target structure supported by the forward portion of the envelope and having a thermal barrier therein. 3,704,387, 11-28-72, Cl. 313-257.000.

Carpenter, Mark Richard; and Ludwig, Albert P., to Standard Pressed Steel Co. Method for producing thread roll dies. 3,638,514, 2-1-72, Cl. 76-101.

Carpenter, Mark Richard; and Ludwig, Albert P. Thread roll dies. 3,685,328, 8-22-72, Cl. 72-88.000.

Carpenter, Paul David, Jr. Aquarium accessories with self-starting water circulating systems. 3,640,391, 2-8-72, Cl. 210-169.

Carpenter, Peter E. G.; and Cook, David L., to Square D Company. Moulded-case circuit breaker with improved double-latch mechanism. 3,693,121, 9-19-72, Cl. 335-169.000.

Carpenter, Ralph L.; and Zuchowski, Richard C., to Kaiser Aluminum & Chemical Corporation. Handler program for remote input management system. 3,653,073, 3-28-72, Cl. 444-1.

Carpenter, Robert E., to Chemplast, Inc. Resilient sealing means for joint between elements having different coefficients of expansion. 3,632,119, 1-4-72, Cl. 277-26.

Carpenter, Robert K.; and Pagel, Richard F., to American Zinc Company. Recovery of metal values. 3,687,828, 8-29-72, Cl. 204-119.000.

Carpenter Technology Corporation: *See—*
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Carpenter, Thomas J., to General Electric Company. Two-wire preionizer for surge voltage arresters. 3,673,459, 6-27-72, Cl. 315-36.000.

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Carpenter, Walter C. Locking wheel chocks for vehicles. 3,687,238, 8-29-72, Cl. 188-32.000.

Carpenter, Walter C. Locking wheel chocks for tandem wheel vehicles. 3,695,394, 10-3-72, Cl. 188-32.000.

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Carpenter, William T., to Synalloy Corporation. Apparatus for liquid treatment of textile material. 3,685,325, 8-22-72, Cl. 68-177.000.

Carpentier, Alain F., to Rhone-Poulenc S.A. Cardiac valvular support prosthesis. 3,656,185, 4-18-72, Cl. 3-1.

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Carpentier, Jan Albert; and De Pauw, Alfons Jozef, to Agfa-Gevaert. Method of incorporating photographic ingredients into photographic collois compositions. 3,676,142, 7-11-72, Cl. 96-100.000.

Carpentier, Michel F.; and Guilhem, Robert G. L., to Thomson-CSF. Radar systems. 3,657,738, 4-18-72, Cl. 343-12.

Carpentier, Richard A.; Shriver, Spencer A.; and Smith, Richard C., to Sperry Rand Corporation. Programmable D.C. power supply. 3,649,906, 3-14-72, Cl. 323-22.

Carpenture, Herbert L., Jr.; and Green, Oscar, to Greif Bros. Corporation. Truck cargo transfer assembly. 3,704,798, 12-5-72, Cl. 214-38.00d.

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Carr, Albert A., Jr.; and Meyer, Donald R., to Richardson-Merrell Inc. N-(substituted-phenacyl)carbamates. 3,634,490, 1-11-72, Cl. 260-471.

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Carr, Harry A. Keeper for hexagonal fastener wrenches. 3,665,791, 5-30-72, Cl. 81-125.000.

Carr, Hugh B., to Kinney, S. P., Engineers, Inc. Automatic self-cleaning strainers. 3,635,348, 1-18-72, Cl. 210-333.

Carr, Hugh B.; and Bradel, Norman F., to Kinney, S. P., Engineers, Inc. Blast furnace top cone and steam control nozzle assembly. 3,653,647, 4-4-72, Cl. 266-31.

Carr, James P., to FMC Corporation. Control mechanism for irrigation system. 3,692,045, 9-19-72, Cl. 137-344.000.

Carr, Kenneth L., to Ferrotec, Inc. Stub tuned circulator. 3,673,518, 6-27-72, Cl. 333-1.100.

Carr, Lottie Mae. Elevated and confined floor area apparatus for the care of invalids and small children. 3,703,734, 11-28-72, Cl. 5-99.00r.

Carr, Norman L.; Paraskos, John A.; and Ko, Daniel Y., to Gulf Research & Development Company. FCC process utilizing divided catalyst injection. 3,639,228, 2-1-72, Cl. 208-153.

Carr, Norman L.; and Peterson, Rodney E., to Gulf Research & Development Company. Control of trace impurities in petrochemical processes. 3,646,106, 2-29-72, Cl. 260-667.

Carr, Norman L., to Gulf Research & Development Company. Maintaining a gaseous phase in a hydrocarbon hydrogenation system. 3,654,131, 4-4-72, Cl. 208-57.

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Carr, Norman L.; Hamilton, Harry A.; and Schagrin, Edward F., to Gulf Research & Development Company. Fractionation of light sulfur-containing hydrocarbons. 3,684,687, 8-15-72, Cl. 208-47.000.

Carr, Paul H., to United States of America, Air Force. Acoustic surface wave parametric amplifier. 3,634,774, 1-11-72, Cl. 330-4.6.

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Carr, Robert D.; Lenoir, Fred W.; and Reedy, Ora Lee, to Allied Chemical Corporation. Automatic wasteless transfer winding apparatus. 3,688,998, 9-5-72, Cl. 242-18.00a.

Carr, Russell L. K.: *See—*
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Carrandi, Artemio P.: *See—*
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Carraro, Giorgio; Del Vesco, Adriano; and Olindo, Santino, to Montecatini Edison S.p.A. Process for the preparation of acyclic dicarboxylic acids from dienic hydrocarbons. 3,686,299, 8-22-72, Cl. 260-537.00r.

Carraz, Gilbert L.; and Boucherle, Andre L., to Societe de Recherches Industrielles S.O.R.I. Composition and method for lowering the blood sugar content of diabetic mammals. 3,671,532, 6-20-72, Cl. 424-305.000.

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Carreira, Leonard M.: *See—*
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Carreira, Leonard M.; and Tulagin, Vsevolod, to Xerox Corporation. Photoelectrophoretic image transfer. 3,655,370, 4-11-72, Cl. 96-1.3.
Carreira, Leonard M., to Xerox Corporation. Electrophoretic imaging apparatus including means to coat and electrify the imaging electrode. 3,696,020, 10-3-72, Cl. 204-300.000.
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Carrell, Harvey A. Ornamental artificial Christmas tree. 3,655,495, 4-11-72, Cl. 161-16.
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Carroll, Dale E. Mobile mixing machine. 3,667,736, 6-6-72, Cl. 259-161.000.
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Carroll, Robert L., to Monsanto Company. Processes for preparing olefinic organo-phosphorus compounds. 3,686,290, 8-22-72, Cl. 260-502.40p.
Carroll, Ronald Frank, to National Research Development Corporation. Lifting device. 3,697,116, 10-10-72, Cl. 294-103.000.
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Carson, Don B., to Universal Oil Products Company. Flow distributing apparatus. 3,685,971, 8-22-72, Cl. 23-288.00r.
Carson, Don B.; and Hennemuth, William R., to Universal Oil Products Company. Fluid contacting method for fluid-solid contacting chambers. 3,697,416, 10-10-72, Cl. 208-146.000.
Carson, Forrest L., to Huber, J. M., Corporation. Quick opening closure cap. 3,672,715, 6-27-72, Cl. 292-257.000.
Carson, John B.: *See—*
Evey, Gaylord H.; and Carson, John B., 3,632,325.
Carson, John R.: *See—*
Reynolds, Brian E.; and Carson, John R., 3,689,503.
Carson, John Robert, to McNeil Laboratories, Inc. 5-Aroyl-2-(β-R_3-ethyl)-1-loweralkyl-pyrroles. 3,707,478, 12-26-72, Cl. 260-326.300.
Carson, Kit P.: *See—*
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Carson Laboratories, Inc.: *See—*
Dormody, James W., 3,650,504.
Carson, Marge, Inc.: *See—*
Carson, Robert M., 3,695,690.
Carson, Robert C., to Harsco Corporation. Slag pot tipping stand. 3,659,731, 5-2-72, Cl. 214-314.
Carson, Robert M., to Carson, Marge, Inc. Furniture covering arrangement. 3,695,690, 10-3-72, Cl. 297-218.000.
Carson, Theo L. Underground service module. 3,672,445, 6-27-72, Cl. 165-42.000.
Carson, William N., Jr.; and Manganaro, James L., to General Electric Company. Method of generating hydrogen with magnesium reactant. 3,703,358, 11-21-72, Cl. 23-211.000.
Carsten, Paul W., to CVC Company. Automatic rate of flow control valve. 3,703,913, 11-28-72, Cl. 137-599.000.
Carstens Health Industries, Inc., mesne: *See—*
Block, George P., 3,658,079.
Carswell, William D., to Shell Oil Company. Lubricating greases. 3,663,436, 5-16-72, Cl. 252-28.
Cartelli, Joseph M. Lighted display box having means for encasing lamp structure. 3,703,720, 11-21-72, Cl. 340-381.50r.
Carter, Alan, to Hydrovane Compressor Company Limited, The. Compressors. 3,669,579, 6-13-72, Cl. 418-83.
Carter, Alastair Howroyd. Discoidal electric motor. 3,678,314, 7-18-72, Cl. 310-268.000.
Carter, Allie F. Chick feeder. 3,664,304, 5-23-72, Cl. 119-61.
Carter, Andrew G.; and Morgan, Charles L., to Carter Products Company, Inc. Shadow line device. 3,638,692, 2-1-72, Cl. 143-168.
Carter Blevins Detasslers, Inc.: *See—*
Blevins, Raymond H., 3,681,900.
Carter, Bob A., to Southern Cross Corporation. Portable flame ionization gas leak detector. 3,703,356, 11-21-72, Cl. 23-254.0ef.
Carter, Cecil O.: *See—*
Hutson, Thomas, Jr.; and Carter, Cecil O., 3,679,771.
Carter, Clarence F., to Carter Engineering Company. Method and apparatus for feeding and compacting finely divided particulate material. 3,664,385, 5-23-72, Cl. 141-12.000.
Carter, Clinton L.: *See—*
Powell, Carroll E.; and Carter, Clinton L., 3,666,872.
Carter, Clyde Thomas, to AMP Incorporated. Electrical connector and assembly. 3,636,497, 1-18-72, Cl. 339-17.
Carter, Clyde Thomas, to AMP Incorporated. Apparatus for selectively interconnecting the conductor of a plurality of multi-conductor cables. 3,660,728, 5-2-72, Cl. 317-118.
Carter, Clyde Thomas, to AMP Incorporated. Electrical connector having improved contact retention means. 3,699,502, 10-17-72, Cl. 339-176.00m.
Carter, Clyde Thomas, to AMP Incorporated. Multi-contact electrical connector for flat cable. 3,707,696, 12-26-72, Cl. 339.017.00f.
Carter, Dale K.; and Ronkes, Carel H., to Beckman Instruments, Inc. Automatic radiant energy analyzer with programmed sample selection and analysis. 3,704,953, 12-5-72, Cl. 356-96.000.
Carter, Daniel B.: *See—*
Salm, Vincent A.; and Carter, Daniel B., 3,650,529.
Carter, Daniel E.; Lederer, David B.; and Perlman, David E., to Eastman Kodak Company. Electromagnetic automatic aperture control utilizing a velocity sensing winding to provide active feedback iscous damping. 3,651,324, 3-21-72, Cl. 250-201.
Carter, Daniel T., to United States Steel Corporation. Contact assembly. 3,634,223, 1-11-72, Cl. 204-206.
Carter, Don E.: *See—*
Butler, Robert G.; Carter, Don E.; and Latinen, George A., 3,700,247.
Carter, Douglas Vaughan, to Avon Rubber Company Limited. Therapeutic device. 3,687,293, 8-29-72, Cl. 210-321.000.
Carter, Edward H., Jr.; Park, Vernon K.; and Seeger, Horst K., to Eastman Kodak Company. Process for polymerizing alpha-olefins. 3,674,765, 7-4-72, Cl. 260-88.200.
Carter, Edward T. Elevated cycle vehicle utilizing a conventional bicycle frame. 3,659,878, 5-2-72, Cl. 280-7.15.
Carter Engineering Company: *See—*
Carter, Clarence F., 3,664,385.
Carter, Frank L., to Pioneer Packaging, Inc. Display structure. 3,693,926, 9-26-72, Cl. 248-460.000.
Carter, Franklin T., to Belgium Standard Limited. Stationary refuse packer. 3,643,589, 2-22-72, Cl. 100-49.
Carter, George D.; Covington, Cecil E.; and Schellhase, Ernst C., to Textron, Inc. Positive lock structural fastener. 3,683,988, 8-15-72, Cl. 151-6.000.
Carter, J. C., Company, The: *See—*
Carter, James C., 3,652,186.
Carter, J. Warne; and Neher, Martin Duane, to Ciba-Geigy Corporation. Pipe coupling device. 3,668,766, 6-13-72, Cl. 29-237.000.
Carter, J. Warne, to Ciba-Geigy Corporation. Methods of forming a fiber reinforced pipe on an inflatable mandrel. 3,700,519, 10-24-72, Cl. 156-156.000.
Carter, James C., to Carter, J. C., Company, The. Pressure lubricated, cooled and thrust balanced pump and motor unit. 3,652,186, 3-28-72, Cl. 417-370.
Carter, James L., to Esso Research and Engineering Company. High surface area nickel catalyst. 3,697,445, 10-10-72, Cl. 252-452.000.
Carter, James M., Jr.: *See—*
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Carter, John: *See—*
Barrett, Arthur Michael; Carter, John; Hull, Roy; Le Count, David James; and Squire, Christopher John, 3,663,607.
Carter, John Ed, to Allied Chemical Corporation. Single use inertia absorbing device. 3,694,019, 9-26-72, Cl. 293-101.000.
Carter, John Henry, to Aeromarine Corporation. Winch. 3,670,589, 6-20-72, Cl. 74-325.000.

Carter, Kenneth G. Welding apparatus for resurfacing breaker bars. 3,643,060, 2-15-72, Cl. 219-125.
Carter, Kenneth G. Wire feeder. 3,672,655, 6-27-72, Cl. 226-108.000.
Carter, Marvin V. Vertically adjustable straddle type cart. 3,688,932, 9-5-72, Cl. 214-394.000.
Carter, Melvin K., to Shell Oil Company. Electrodepositable phosphate ester-polyepoxide emulsions. 3,634,348, 1-11-72, Cl. 260-18.
Carter Products Company, Inc.: *See—*
Carter, Andrew G.; and Morgan, Charles L., 3,638,692.
Carter, Rex D.; and Hoffsis, Earl W., to Sheller-Globe Corporation. Support for suspended files. 3,651,949, 3-28-72, Cl. 211-177.
Carter, Rex D., to Sheller-Globe Corporation. Support for suspended files. 3,651,950, 3-28-72, Cl. 211-177.
Carter, Robert: *See—*
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Carter, Robert; Amos, Ralph A.; and Gregory, Charles A., Jr., to Power Systems and Controls, Incorporated. No break power system. 3,665,495, 5-23-72, Cl. 307-67.000.
Carter, Robert W.; Chichanowski, Steve; and Chichanowski, Frances, to Qicsys Systems, Inc. Multi-printed circuit assembly. 3,662,225, 5-9-72, Cl. 317-118.
Carter, Sadie,: *See—*
Glicksman, Martin; Farkas, Elizabeth H.; and Carter, Sadie,, 3,676,150.
Carter, Samuel R., Jr. Solar temperature inversion device. 3,666,176, 5-30-72, Cl. 239-2.
Carter, Shirley J. Fuel feeding apparatus. 3,701,513, 10-31-72, Cl. 261-18.00a.
Carter, Sidney Albert. Gun sling and method of use. 3,653,564, 4-4-72, Cl. 224-1.
Carter, Sidney T., to A-T-O Inc. Filling apparatus. 3,645,303, 2-29-72, Cl. 141-7.
Carter, Sidney T., to A-T-O Inc. Apparatus for adhesively applying sealing strips to container closures to prevent unauthorized removal of the closures without detection. 3,673,043, 6-27-72, Cl. 156-363.000.
Carter, Victor J., to Westinghouse Brake English Electric Semi-Conductors Limited. Semiconductor assembly including aperture-mounted, diaphragm supported wafer. 3,644,797, 2-22-72, Cl. 317-234.
Carter, Vondell, to United States of America, Army. Flueric temperature sensor. 3,667,297, 6-6-72, Cl. 73-339.00a.
Carter, Wilfred G. Water heater. 3,659,560, 5-2-72, Cl. 122-494.
Carter, William C.: *See—*
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Bouricius, Willard G.; Carter, William C.; Duke, Keith A.; Roth, John P.; and Schneider, Peter R., 3,665,174.
Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., 3,665,175.
Carter, William C.; and Schneider, Peter R., to International Business Machines Corporation. System use of self-testing checking circuits. 3,634,665, 1-11-72, Cl. 235-153.
Carter, William C.; Duke, Keith A.; and Jessep, Donald C., Jr., to International Business Machines Corporation. System for translating to and from single error correction double error detection hamming code and byte parity code. 3,648,239, 3-7-72, Cl. 340-46.1.
Carter, William C.; Henle, Robert A.; Jessep, Donald C., Jr.; and Wadia, Aspi B., to International Business Machines Corporation. Error-free decoding for failure-tolerant memories. 3,688,265, 8-29-72, Cl. 340-146.1al.
Carter, William C.; Duke, Keith A.; and Jessep, Donald C., Jr., to International Business Machines Corporation. Error correction system for use with a rotational single-error correction, double-error detection hamming code. 3,697,949, 10-10-72, Cl. 340-14.1al.
Carter, William C.; and Schneider, Peter R., to International Business Machines Corporation. Parity checked shift register counters. 3,701,892, 10-31-72, Cl. 235-153.000.
Carter, William C.; Jessep, Donald C., Jr.; and Wadia, Aspi B., to International Business Machines Corporation. Morphic exclusive- or circuits. 3,705,357, 12-5-72, Cl. 328-93.000.
Carter, William Caswell: *See—*
Bouricius, Willard G.; Carter, William Caswell; Roth, John P.; and Schneider, Peter Robert, 3,665,418.
Carter, William J., to Westinghouse Electric Corporation. Corona discharge detecting apparatus including gatable amplifiers controlled by flip flop means. 3,707,673, 12-26-72, Cl. 324-52.000.
Carter, William J., Jr. Specially envelope. 3,692,233, 9-19-72, Cl. 229-71.000.
Carter, William J., Jr. Ground collar. 3,704,004, 11-28-72, Cl. 256-1.000.
Carter, William R.; Slaybaugh, Charles Jay; and Hodgins, Patrick M., to Kelley, Edward, Corporation, mesne. Cooler chest. 3,640,420, 2-8-72, Cl. 220-9.
Carter-Wallace, Inc.: *See—*
Ludwig, Bernard J.; Berger, Frank M.; and Fukui, George M., 3,699,097.
Reisner, David B.; Ludwig, Bernard J.; and Berger, Frank M., 3,681,350.
Reisner, David B.; Ludwig, Bernard J.; Bates, Harold M.; and Berger, Frank M., 3,684,805.
Carthage Cup Company: *See—*
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Cartier, Michael David: *See—*
Olyphant, Murray, Jr.; Cartier, Michael David; and Freeman, Charles Robert, 3,665,428.
Cartledge, Melvyn T. Combination support and alarm system. 3,644,920, 2-22-72, Cl. 340-280.
Cartlidge, Albert J.: *See—*
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Cartmell, James V.: *See—*
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Cartmell, James V.; and Churchill, Donald, to National Cash Register Company, The. Rear projection screen employing liquid crystals. 3,674,338, 7-4-72, Cl. 350-117.000.
Cartmell, James V.; Churchill, Donald; and Koopman, Donald E., to National Cash Register Company, The. Electro-optic shutter having a thin glass or silicon oxide layer between the electrodes and the liquid crystal. 3,700,306, 10-24-72, Cl. 350-150.000.
Cartmell, Robert R., to Standard Oil Company (Indiana). Oxidative fluidized regeneration of petroleum conversion catalyst in separate dilute and dense phase zones. 3,661,799, 5-9-72, Cl. 252-417.
Cartner, Jack O. Post driver. 3,703,934, 11-28-72, Cl. 173-43.000.
Carton, John E.; and Mertz, George A. Self-adapting spring suspension system for vehicles. 3,666,288, 5-30-72, Cl. 280-124.00f.
Cartridge Television, Inc.: *See—*
Crosno, Philip M., 3,662,099.
Hathaway, Richard A., 3,669,384.
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Cartwright, Andrew John; Cartwright, Frederick Timothy; and Cartwright, Peter Charles. Welding. 3,688,080, 8-29-72, Cl. 219-137.000.
Cartwright Engineering, Inc.: *See—*
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Cartwright, Andrew John; Cartwright, Frederick Timothy; and Cartwright, Peter Charles, 3,688,080.
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Cartwright, John A., to Painton & Company Limited. Electrical plug and sockets and components. 3,659,254, 4-25-72, Cl. 339-221.
Cartwright, John Sutton; and Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Method of and apparatus for positive fluid flow extrusion. 3,677,049, 7-18-72, Cl. 72-60.
Cartwright, Peter Charles: *See—*
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Cartwright, Randle Velore, to Eastman Kodak Company. Apparatus for transferring a developed image from a photosensitive member to a receiver. 3,707,138, 12-26-72, Cl. 118-637.000.
Cartwright, Robert S.; and Stewart, Charles N., to Stewart-Warner Corporation. Double wheeled caster. 3,648,325, 3-14-72, Cl. 16-46.
Cartwright, Victor F. Delay system for regenerating pulse periodically during delay interval. 3,641,371, 2-8-72, Cl. 307-293.
Cartwright, Victor F., to Cartwright Engineering, Inc. Single antenna signal retransmission device. 3,685,050, 8-15-72, Cl. 343-18.00b.
Carty, Edward J.; and McDowell, Francis C., to General Electric Company. Fibrous glass filled polycarbonate resins. 3,678,079, 7-18-72, Cl. 260-37.0pc.
Carus Chemical Company, Inc.: *See—*
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Guisti, Medie B., 3,652,351.
Posselt, Hans S., 3,652,417.
Caruso, Fred A.: *See—*
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Caruso, Philip J., Jr. Reconnaissance and guidance microwave radiometric system. 3,689,924, 9-5-72, Cl. 343-100.0me.
Carver, Bryan George; and Crooks, Ronald, to G.K.N. Group Services Limited. Die-casting apparatus with ceramic shot duct liner. 3,664,411, 5-23-72, Cl. 164-312.
Carver, Bryan George; and Crooks, Ronald, to G.K.N. Group Services Limited. Apparatus for die-casting metals. 3,685,572, 8-22-72, Cl. 164-312.000.

Carver, Fred F., to Singer Company, The, mesne. Simulated instruments. 3,679,880, 7-25-72, Cl. 235-151.340.

Carver, Richard N.: *See—*
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Carville, James G.; and Rekesius, John F., to Savory Equipment, Inc. Apparatus and method of toasting bread like articles. 3,693,536, 9-26-72, Cl. 99-386.000.

Cary, Arthur P. Fluid control system louver unit. 3,636,854, 1-25-72, Cl. 98-110.

Cary, Arthur P. Air flow system with full control elliptical vane louvers. 3,683,787, 8-15-72, Cl. 98-40.000.

Cary, Harry W., Jr.: *See—*
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Cary, Henry H., to Cary Instruments. Circular dichroism measurement system characterized by noise cancellation. 3,632,216, 1-4-72, Cl. 356-114.

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Cary, John T., to Continental Can Company, Inc. Controlled cutting force assembly. 3,664,229, 5-23-72, Cl. 90-18.

Cary Products, Inc.: *See—*
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Casaday, William M.; and Fisher, Robert L., to Sperry Rand Corporation. Brushless D.C. torque motor including commutator bars fed from a photo-commutation circuit. 3,667,011, 5-30-72, Cl. 318-138.000.

Casadio, Pietro. Flexible track for miniature electric trains. 3,684,173, 8-15-72, Cl. 238-10.00r.

Casadio, Silvano; and Pala, Gianfranco, to Istituto de Angeli S.p.A. 1,2-Diphenyl-3,5-dioxo-4-substituted pyrazolidines. 3,703,528, 11-21-72, Cl. 260-310.00b.

Casadio, Silvano; and Pala, Gianfranco, to Istituto de Angeli S.p.A. 19-Nortestosterone esters. 3,703,534, 11-21-72, Cl. 260-397.400.

Casagrande, Antonio. Universal machine for foundations. 3,705,634, 12-12-72, Cl. 175-122.000.

Casagrande, Fulvio: *See—*
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Casale, Mira E. A.; Collier, Owen N.; and Iles, Gerald S., to Matthey, Johnson, & Co., Limited. Resistor composition. 3,637,530, 1-25-72, Cl. 252-518.

Casale, Ronald: *See—*
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Casali, Gino; and Casali, Joseph P. Tube squeezer. 3,675,822, 7-11-72, Cl. 222-103.000.

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Casani, John R.: *See—*
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Casas-Robert, Ramon, to Mefina S.A. Multi-purpose presser foot. 3,638,595, 2-1-72, Cl. 112-235.

Casas-Robert, Ramon, to Mefina S.A. Bobbin mount for sewing machine. 3,645,220, 2-29-72, Cl. 112-218.

Casavant, George D., to International Paper Company. Process of forming an electrophotographic element. 3,671,234, 6-20-72, Cl. 96-1.800.

Casavant, Roger M.: *See—*
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Cascade Corporation: *See—*
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Case, Derek Frank; and Stammers, Kenneth, to International Computers Limited. Methods of bonding ferrite components. 3,687,650, 8-29-72, Cl. 65-45.000.

Case, Forrest N.: *See—*
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Case, Forrest N.; Garrison, Arthur W.; Kau, Donald L.; and Smiley, David E., to United States of America, Atomic Energy Commission. Radiolytic destruction of non-biodegradable organic pesticides. 3,640,808, 2-8-72, Cl. 204-158.

Case, Forrest N.; and Smiley, David E., to United States of America, Atomic Energy Commission. Radiolytic treatment of organic industrial wastes in a pressurized oxygen atmosphere. 3,650,926, 3-21-72, Cl. 204-158.

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Stannebein, Clifford E., 3,685,780.
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Case, John S.; and Johnson, William B., to Anchor Post Products, Inc., mesne. Method for continuous coating of metallic products with fusible pulverulent materials. 3,650,798, 3-21-72, Cl. 117-21.

Case, John S.; and Whitfield, Edwin W., to Sperry Rand Corporation. Apparatus for determining data associated with objects. 3,685,012, 8-15-72, Cl. 340-38.00p.

Case, Laura K.: *See—*
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Case, Laura K., to Itek Corporation. Tanning process for forming a photographic relief image. 3,664,836, 5-23-72, Cl. 96-35.

Case, Leslie C. Rigid polyurethane compositions with improved properties. 3,671,470, 6-20-72, Cl. 260-2.5ap.

Case, Leslie Catron. Halogen-containing polyols and polyurethanes prepared therefrom. 3,660,502, 5-2-72, Cl. 260-615.

Case, Nelson S.: *See—*
Fassbender, Henry J.; and Case, Nelson S., 3,667,951.

Case, Raymond D.; Maloney, Thomas O.; and Warren, Larry H., to Xerox Corporation. Reproducing machine. 3,689,143, 9-5-72, Cl. 355-300.000.
Case, Roger L.; and Drake, Jack W., to Commercial Affiliates, Inc. Clamping apparatus. 3,659,331, 5-2-72, Cl. 29-268.
Case, Russell P., to National Tractor Pullers Association. Device for measuring pulling power. 3,633,413, 1-11-72, Cl. 73-141.
Case Western Reserve University: *See—*
Angus, John C.; and Gardner, Nelson C., 3,661,526.
Miraldi, Floro D., 3,688,113.
Casebier, Ronald L.; Herrick, Franklin W.; Gray, Kenneth R.; and Johnston, Frederic A., to International Telephone and Telegraph Corporation. Processes for preparing mannose and mannose derivatives. 3,677,818, 7-18-72, Cl. 127-46.00r.
Casebolt, Ralph T. Sliding glass door assembly. 3,653,157, 4-4-72, Cl. 49-411.
Casella, Joseph: *See—*
McLeod, Gerald L.; French, Hollis E.; Case, Laura K.; Berman, Elliot; and Casella, Joseph, 3,700,440.
Casella, Luigi; Perna, Aldo; and Valbonesi, Giuseppe, to Societa Italiana Telecomunicazioni Siemens S.p.A. Data-evaluation system for telephone exchange. 3,673,340, 6-27-72, Cl. 179-18.00j.
Casensky, Bohuslav: *See—*
Vit, Jaroslav; Casensky, Bohuslav; Mamula, Milan; and Machacek, Jiri, 3,652,622.
Caserio, Frederick F., Jr.: *See—*
Schenach, Thomas A.; and Caserio, Frederick F., Jr., 3,634,501.
Caserio, Frederick F., Jr., to Atlantic Richfield Company. Vinyl acetate recovery process. 3,636,087, 1-18-72, Cl. 260-497.
Caserta, James: *See—*
Bonvicini, Gene; and Caserta, James, 3,680,857.
Casey, Edward A.; and Huggins, James M., to Monsanto Company. Surfactant composition and liquid detergent formulations containing same. 3,639,291, 2-1-72, Cl. 252-152.
Casey, Edward H.; and Bickhaus, James T., to ACF Industries, Incorporated. Fluidic controlled carburetor. 3,652,065, 3-28-72, Cl. 261-39.
Casey, Ernest D.; and Sole, Lloyd H., to Ernest-Lloyd Limited. Magnetic pipeline pigs. 3,673,629, 7-4-72, Cl. 15-104.06r.
Casey, Harry B.; and Clark, Carl E., to TRW Inc. Compact variable resistor with rotary resistance element. 3,657,688, 4-18-72, Cl. 338-150.
Casey, Harry B.; and Clark, Carl E., to TRW Inc. Variable low noise electrical resistor with plural variable resistors connected in series. 3,657,689, 4-18-72, Cl. 338-150.
Casey, Horace Craig, Jr.; and van Roosbroeck, Willy Werner, to Bell Telephone Laboratories, Incorporated. Relaxation semiconductor devices. 3,697,834, 10-10-72, Cl. 317-237.000.
Casey, John A. Method and composition for sanitation of sugar factories. 3,694,262, 9-26-72, Cl. 127-44.000.
Casey, Leonard R. Rotary kinetic device with coplaner tandem pistons. 3,680,444, 8-1-72, Cl. 91-493.000.
Casey, Norris A.; and Ivy, James R. Motorcycle mount for automobile bodies. 3,687,318, 8-29-72, Cl. 214-450.000.
Casey, Richard C.: *See—*
Gallagher, Frank William; and Casey, Richard C., 3,665,406.
Casey, Richard H., to General Motors Corporation. Hydro-static bearing air seal. 3,650,582, 3-21-72, Cl. 308-36.3.
Casey, Tommie; Farrar, Ed; and Cockrum, Grover. Sportsman's boat. 3,694,835, 10-3-72, Cl. 9-2.001.
Cash, A. W., Valve Manufacturing Corporation: *See—*
Butcher, James; Gyllstrom, Richard G.; and Lamb, William Doyle, 3,670,760.
Cash, David R., to Cash, James, Machine Co. Drift compensating means for a quilting machine. 3,665,874, 5-30-72, Cl. 112-118.000.
Cash, David R., to Cash, James, Machine Co. Automatic border panel measuring and cutting machine. 3,673,906, 7-4-72, Cl. 83-208.000.
Cash, George O., Jr.: *See—*
Joyner, Frederick B.; Cash, George O., Jr.; and Meyer, Max F., Jr., 3,697,465.
Cash, James, Machine Co.: *See—*
Cash, David R., 3,665,874.
Cash, David R., 3,673,906.
Cash, John H., Jr.; and Keene, Joe P., to Texas Instruments, Incorporated. R.F. discharge cleaning to improve adhesion. 3,669,861, 6-13-72, Cl. 204-192.
Cash, John H., Jr.; and Cunningham, James A., to Texas Instruments, Incorporated. RG sputtering method. 3,677,924, 7-18-72, Cl. 204-192.000.
Cash, Michael J.: *See—*
Warrington, Bertil Eck; and Cash, Michael J., 3,699,588.
Cashau, George R.: *See—*
Hart, Charles H.; and Cashau, George R., 3,638,936.
Cashew Kabushiki Kaisha: *See—*
Shimizu, Teisuke; Sasaki, Atsuo; and Nagaki, Shigeo, 3,650,666.
Cashin, William F.; and Mourning, James R., to Honeywell Inc. Humidity responsive element. 3,673,867, 7-4-72, Cl. 73-337.000.
Cashman, Harland J., Jr., to United States of America, Army. Combination emitter follower digital line driver/sensor. 3,673,570, 6-27-72, Cl. 340-147.000.
Cashman, Robert L., to Sperry Rand Corporation. Stolen vehicle indicating device. 3,694,805, 9-26-72, Cl. 340-64.000.
Casida, Darrell F., to Hart, M. L. Cutting apparatus. 3,633,447, 1-11-72, Cl. 83-8.
Casimer, Joseph: *See—*
Wrabel, James A.; and Casimer, Joseph, 3,668,476.
Casini, Paola; and Mollaretti, Virginia, to Bianco Satin S.r.l. Satinwhite for use in paper glaze, paints and the like, and process for the production thereof. 3,686,011, 8-22-72, Cl. 106-306.000.
Casio Computer Kabushiki Kaisha: *See—*
Kashio, Toshio, 3,656,169.
Kashio, Toshio, 3,657,599.
Kashio, Toshio, 3,691,551.
Kashio, Toshio, 3,696,394.
Yanou, Takao; and Urayama, Masaharu, 3,662,399.
Caslaw, James S., to Plessey Company Limited, The. Superconducting electrical conductors. 3,661,639, 5-9-72, Cl. 117-213.
Casler, Nancy Lee Cecile; and Vincentsen, Barbara Egee, to Du Pont de Nemours, E. I., and Company. Photoresist developer extender baths containing polyoxyalkylene ethers and esters and process of use. 3,682,641, 8-8-72, Cl. 96-35.100.
Caslow, Joseph H.; Huber, Melvin F.; and Wootten, John A., to Lear Siegler, Inc. Portable infusion pump. 3,685,697, 8-22-72, Cl. 222-137.000.
Cason, Charles M., III, to United States of America, Army. Magnetohydrodynamic gas dynamic laser. 3,706,050, 12-12-72, Cl. 331-94.500.
Cason, George A.: *See—*
Young, James W.; Cason, George A.; and Kunkel, Ernest O., 3,659,661.
Cason, John L., to United States of America, Atomic Energy Commission. Portable neutron source using a plurality of moderating means. 3,659,106, 4-25-72, Cl. 250-106.00s.
Caspari, Georg K.: *See—*
Terbrueggen, Paul L.; and Caspari, Georg K., 3,660,640.
Caspary, Rudolf; and Kretschmer, Peter, to Dunlop Holdings Limited. Device for the measurement of the angle of rotation of a rotatable object. 3,672,212, 6-27-72, Cl. 73-99.000.
Caspe, Marc S. Earthquake resistant multistory structure. 3,638,377, 2-1-72, Cl. 52-167.
Casper, Le Roy V. Balloon gun and game. 3,698,374, 10-17-72, Cl. 124-11.000.
Casper, Lee A. Container for light-sensitive particulate solids. 3,643,831, 2-22-72, Cl. 220-42.
Casper, Robert P., to Hughes Aircraft Company. Opto-electronic scene monitoring system. 3,678,492, 7-18-72, Cl. 340-258.00b.
Caspers, Willi, to Wolters, Peter, Kratzenfabrik und Maschinenfabrik. Redressing of laps in lapping or honing machines. 3,662,498, 5-16-72, Cl. 51-118.
Cass, George R., to Canadian National Railway Company. Wheel slip detector. 3,699,563, 10-17-72, Cl. 340-268.000.
Cass Industries, Ltd.: *See—*
Sjostrom, John P., Sr., 3,665,515.
Cass, Joseph K. Bow tie rack. 3,642,143, 2-15-72, Cl. 211-13.
Cass, Richard; and Herbenar, Edward J., to TRW Inc. Torsion bar wheel suspension. 3,692,295, 9-19-72, Cl. 267-57.000.
Cass, Robert A.: *See—*
Ray, James D.; Steingiser, Samuel; and Cass, Robert A., 3,671,411.
Cassaday, Lewis E., to Greenwood Mills. Loom operation indicator circuit. 3,633,198, 1-4-72, Cl. 340-267.
Cassady, John; and Coad, George. Card sorting device. 3,690,670, 9-12-72, Cl. 273-149.00p.
Cassady, Samuel G., to Martin, Roy A. and Martin, W. R. Vehicle outiggers. 3,638,965, 2-1-72, Cl. 280-150.5.
Cassanelli, Robert R.; Wauters, Ronald P.; Wirchansky, Anastasia C.; and Wyss, Clement R., to General Foods Corporation. Multilayered starch-containing dessert. 3,702,254, 11-7-72, Cl. 99-139.000.
Cassano, James R.: *See—*
Lahr, Roy J.; and Cassano, James R., 3,652,156.
Cassano, James R.; Smith, Charles E.; and Kalvitis, Robert E., to Xerox Corporation. Film support and transport apparatus. 3,640,614, 2-8-72, Cl. 353-26.
Cassar, Richard D.; and Boyer, Jackson S., to Sun Oil Company. Petroleum hydrocarbons containing polyester stabilizers. 3,632,846, 1-4-72, Cl. 260-28.
Cassar, Richard D.; and Boyer, Jackson S., to Sun Oil Company. Elastomeric composition containing polyester stabilizers. 3,644,284, 2-22-72, Cl. 260-45.85.
Cassara, Frank A.: *See—*
Stangarone, Gene; Cassara, Frank A.; and Dupont, Eugene F., 3,675,615.
Cassel, Carlis E.; and Krueger, Donald S., to National-Standard Company. Wire reel for a coil of wire. 3,693,903, 9-26-72, Cl. 242-129.800.

Cassel, John W., to National Cash Register Company, The. High-speed card reader. 3,660,639, 5-2-72, Cl. 235-61.11.

Cassel, Keevin J.: *See—*
Cassel, Thomas R., 3,653,696.

Cassel, Kenneth W., Jr.: *See—*
Cassel, Thomas R., 3,653,696.

Cassel, Thomas R. Quarter wave tuner structure. 3,645,357, 2-29-72, Cl. 181-36.

Cassel, Thomas R., 80/500 to Cassel, Kenneth W., Jr., 20/500 to Cooksey, R. Nelson, 10/500 to Cassel, Keevin J. and 2/500 to Neighbors, William E. Laminated pipe exhaust conduit with low pressure seal joint. 3,653,696, 4-4-72, Cl. 285-403.

Cassell, Arnold. Bicycle stabilizer. 3,650,544, 3-21-72, Cl. 280-293.

Cassell, Perry E. Torque overload release coupling. 3,701,404, 10-31-72, Cl. 192-56.00r.

Cassell, Robert D.: *See—*
Van Hecke, George J.; and Cassell, Robert D., 3,689,951.

Cassella Farbwerke Mainkur Aktiengesellschaft: *See—*
Beyerle, Rudi; Stachel, Adolf; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckard, 3,652,557.
Frind, Horst; Heid, Christian; and Aman, Horst, 3,640,803.
Von Brachel, Hanswilli; Cornelius, Dieter; and Stier, Eberhard, 3,637,653.
Von Brachel, Hanswilli; and Hintermeier, Karl, 3,637,762.

Cassella, Vincent Joseph, Jr., to Pennwalt Corporation. Composition and method for treating dry-cleanable soil-resistant leathers. 3,668,124, 6-6-72, Cl. 252-8.57.

Cassells, Raymond John Naismith, to Castan Limited. Apparatus for cleaning bed pans. 3,645,283, 2-29-72, Cl. 134-58.

Cassen, Benedict, to University of California, The Regents of the. Radiation scanning device for detecting a plurality of different radiating sources positioned in different planes. 3,659,103, 4-25-72, Cl. 250-71.5.

Cassen, Quentin C.; Luisi, James A.; and Salman, Naif D., to North American Rockwell Corporation. Read-only memory. 3,671,948, 6-20-72, Cl. 340-173.0sp.

Cassibo, Vernon E.: *See—*
Javes, Wallac R.; and Cassibo, Vernon E., 3,654,417.

Cassidy, Carl R., to Burroughs Corporation. Electroacoustic converter. 3,663,757, 5-16-72, Cl. 179-2.

Cassidy, Donald J., to Ford Motor Company. Ceramic regenerator seals. 3,647,228, 3-7-72, Cl. 277-96.

Cassidy, Edward K.: *See—*
Stepenske, Lawrence D.; and Cassidy, Edward K., 3,677,226.

Cassidy, Glenn; Hartman, Donald A.; Hentz, Lyle J.; and Horn, William D., to Western Electric Company, Incorporated. Gas tube surge protective device and method for making the device. 3,702,952, 11-14-72, Cl. 317-62.000.

Cassidy, Harold G.; Wegner, Gerhard; and Nakabayashi, Nobuo, to Research Corporation. Quinonidiol intermediates for redox polymers. 3,707,488, 12-26-72, Cl. 260-396.00r.

Cassidy, James L. Pressure process for condensing power house stream. 3,703,809, 11-28-72, Cl. 60-95.000.

Cassidy, John Edward: *See—*
Birchall, James Derek; and Cassidy, John Edward, 3,702,774.

Cassidy, Leon, Jr. Ratchet spinner wrench. 3,691,876, 9-19-72, Cl. 81-58.100.

Cassidy, Patrick E.; and Lowell, Philip S., to Tracor, Inc. Method of forming coil packages of metal foil strips. 3,648,350, 3-14-72, Cl. 29-423.

Cassie, John V.; Lima, Philip J.; and McCully, Everette R., to International Business Machines Corporation. Digital speed servomechanism. 3,646,417, 2-29-72, Cl. 318-318.

Cassiere, Gerald D.: *See—*
Ferdinand, Irwin J.; Kulbersh, Irwin R.; and Cassiere, Gerald D., 3,691,966.

Cassiers, Paul Maria: *See—*
Conix, Andre Jan; and Cassiers, Paul Maria, 3,654,461.

Cassimatis, Jean; and Vie, Robert. Pneumatic machine for the leak-tight closure of flasks. 3,691,725, 9-19-72, Cl. 53-328.000.

Cassimatis, Peter N.: *See—*
Gould, Wallace E.; and Cassimatis, Peter N., 3,680,180.

Cassin, Christopher: *See—*
Buckley, Alan; and Cassin, Christopher, 3,642,976.

Cassina, Cesare, to Cassina, Cesare, Centro S.r.L. Method for a reduced size packing of armchairs, divans and the like. 3,641,726, 2-15-72, Cl. 53-24.

Cassina, Cesare, Centro S.r.L.: *See—*
Cassina, Cesare, 3,641,726.

Cassinelli, Giuseppe: *See—*
Arcamone, Federico; Cassinelli, Giuseppe; Penco, Sergio; and Tognoli, Luigi, 3,686,163.

Cassinelli, Giuseppe; Cotta, Ernesto; Grein, Arpad; and Mazzoleni, Rosanna, to Societa' Farmaceutici Italia. Antibiotic complex taimycine and method for the preparation thereof. 3,644,619, 2-22-72, Cl. 424-121.

Cassinelli, Giuseppe; Cotta, Ernesto; Pennella, Paolo; and Faustini, Remo, to Societa Farmaceutici Italia. Antibiotic substance libanomycin. 3,696,194, 10-3-72, Cl. 424-115.000.

Casson, Edward A., Jr. Plate rubbing member for lithographic plate developing machine. 3,651,549, 3-28-72, Cl. 29-129.

Casson, Edward A., Jr.; Gaul, Albro T.; Langlais, Eugene L.; Shadlen, Gerald; and Vanaver, Eugene L., to Durolith Corporation. Corrosion resistant metallic plates particularly useful as support members for photo-lithographic plates and the like. 3,658,662,4-25-72, Cl. 204-58.

Casson, Edward A., Jr. Automatic lithographic plate developing machine. 3,682,079, 8-8-72, Cl. 95-89.00r.

Castaldi, John A., to Supreme Equipment & Systems Corporation. Automatic search and retrieval system. 3,690,479, 9-12-72, Cl. 214-16.40a.

Castan Limited: *See—*
Cassells, Raymond John Naismith, 3,645,283.

Castanis, George. Multi-image mirror. 3,647,283, 3-7-72, Cl. 350-293.

Castedello, William: *See—*
Schwartz, Morris; Castedello, William; and Kaprelian, Edward K., 3,638,875.

Castedello, William, to Kalart Company Inc., The. Cassette for a sound slide projector. 3,685,893, 8-22-72, Cl. 353-120.000.

Casteel, Charles P.; and Vanderhoof, Roy E. Kit for modifying footwear traction. 3,638,785, 2-1-72, Cl. 206-47.

Castela, Andre: *See—*
Joubert, Philippe; and Castela, Andre, 3,656,763.

Castela, Andre; and Joubert, Philippe, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for handling elongated members. 3,651,959, 3-28-72, Cl. 214-2.5.

Castell, Juan Morato. Method of packing cooked food products. 3,642,499, 2-15-72, Cl. 99-171.

Castell, William A.: *See—*
Klingbeil, Herbert N.; Cliffe, Walter W.; and Castell, William A., 3,660,229.

Castellani, Giovanni. Gear transmissions. 3,683,714, 8-15-72, Cl. 74-414.00r.

Castellani, Italo: *See—*
Ferrara, Italo; and Castellani, Italo, 3,661,509.

Castellano, Angelo. Combined spectacle frame and light. 3,634,676, 1-11-72, Cl. 240-6.4.

Castellano, Joseph Anthony; and Friel, Ronald Norman, to RCA Corporation. Liquid crystal display device including side-by-side electrodes on a common substrate. 3,674,342, 7-4-72, Cl. 350-160.00r.

Castellano, Joseph Anthony, to RCA Corporation. Liquid crystal color display. 3,703,329, 11-21-72, Cl. 350-150.000.

Castellanos, Leopold J., to Esso Production Research Company. Swivel joint connection. 3,636,716, 1-25-72, Cl. 61-46.5.

Castellengo, Michele M. T.: *See—*
Leipp, Emile A.; Castellengo, Michele M. T.; Lienard, Jean-Sylvain R.; Quinio, Jacques L.; Sapaly, Jean; and Teil, Daniel G., 3,632,887.

Castelli Anonima s.a.s.: *See—*
Castelli, Leonida; and Piretti, Giancarlo, 3,656,806.

Castelli, Leonida: *See—*
Piretti, Giancarlo; and Castelli, Leonida, 3,705,744.

Castelli, Leonida; and Piretti, Giancarlo, to Castelli Anonima s.a.s. Chair or the like with back and seat foldable in upright position. 3,656,806, 4-18-72, Cl. 297-324.

Castelli, Luigi. Yarn feeding and tensioning apparatus. 3,669,328, 6-13-72, Cl. 226-97.000.

Castelli, Paolo: *See—*
Ponzini, Sandro; Castelli, Paolo; and Lewendel, Jean Stanislao, 3,639,398.
Ponzini, Sandro; Castelli, Paolo; and Stanislao, Jean Lawendel, 3,642,787.

Castellion, George Augustus; and Habermann, Joseph Peter, to American Cyanamid Company. Plastic optical filter. 3,692,688, 9-19-72, Cl. 252-300.000.

Castello, Anthony M.: *See—*
Solka, James L.; Reichelderfer, Charles A.; Dieckmann, John J.; and Castello, Anthony M., 3,662,738.

Castello, Louis D.: *See—*
West, Curtis C.; Castello, Louis D.; and Ward, Frederick William Allan, 3,658,011.

Castello, Robert A.: *See—*
Morgans, David J.; Bavitz, Joseph F.; and Castello, Robert A., 3,655,742.

Castellucci, Nicholas T., to Pittsburgh Corning Corporation. Method of making a tower packing element. 3,657,847, 4-25-72, Cl. 51-313.

Castellucci, Nicholas T.; and Krouskop, Ned C. Process for burning a combustible liquid using cellular ceramic nodules. 3,661,497, 5-9-72, Cl. 431-7.000.

Caster, Glenn, to Baxter Laboratories, Inc. Fluid flow valve. 3,685,795, 8-22-72, Cl. 251-342.000.

Castiaux, Marcel, to Glaverbel. Packaging device for sheet materials. 3,645,389, 2-29-72, Cl. 206-62.

Castiglia, Anthony J. Streamlining motorcycle gas tank closure device. 3,695,480, 10-3-72, Cl. 220-24.0gt.

Castiglia, Ignatius F. Brace for articulated limbs. 3,669,105, 6-13-72, Cl. 128n80.00c.
Castiglioni, Livio; and Frattini, Gianfranco. Electric lighting apparatus, particularly for decorative uses. 3,633,023, 1-4-72, Cl. 240-10.
Castille, Leopold A.: *See—*
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Castillo, Adolfo: *See—*
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Castillo, Cecilio O., to Kennecott Copper Corporation. Production of lubricant-grand molybdenite from by product concentrates of porphyry copper ores. 3,645,455, 2-29-72, Cl. 241-20.
Castillon, Philippe Charles Albert, to Gaz de France. Pressure regulating and reducing gas-flow for industrial installations. 3,665,959, 5-30-72, Cl. 137-551.000.
Castle & Cooke Inc.: *See—*
Golding, David R. V., 3,658,651.
Vadas, Leslie, 3,642,043.
Vadas, Leslie; and Drake, Robert W., 3,656,527.
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Timbrook, Robert L.; and Castle, A. Lynn, 3,665,662.
Castle, George K.: *See—*
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Castle, Maurice E. Disposable splint. 3,695,258, 10-3-72, Cl. 128-87.00r.
Castle, Raymond G.: *See—*
Cherry, Walter L.; and Castle, Raymond G., 3,644,855.
Castle, Robert L.: *See—*
Amland, Ronald D.; and Castle, Robert L., 3,667,284.
Castle Tool Specialty Co. Inc.: *See—*
Patch, Richard D., 3,651,603.
Castleberry, Joseph C., to Altec, Inc. Speed control. 3,676,017, 7-11-72, Cl. 412-34.000.
Castles, George Richard: *See—*
Ettre, Kitty S.; and Castles, George Richard, 3,655,496.
Castner, Charles S., to Schuyler Development Corporation. Fishing lures. 3,631,625, 1-4-72, Cl. 43-42.33.
Castner, Charles S., to Schuyler Development Corporation. Method for renewing, resurfacing and preserving phonograph records. 3,652,314, 3-28-72, Cl. 117-2.
Castner, Charles S., to Schuyler Development Corporation. Methods of converting cocoa butter to free acids. 3,654,327, 4-4-72, Cl. 260-418.
Castner, Charles S., to Schuyler Development Corporation. Cleaning and conditioning concentrate compositions. 3,679,609, 7-25-72, Cl. 252-527.000.
Castner, Charles S., to Schuyler Development Corporation. Compositions for cleaning and sterilizing milk. 3,694,365, 9-26-72, Cl. 252-106.000.
Castner, Claire; and Berard, Raymond A., to Celanese Corporation. Modified oxymethylene polymers stabilized with phosphites. 3,642,942, 2-15-72, Cl. 260-858.
Castner, Claire J.; Russo, Robert V.; and Berard, Raymond A., to Celanese Corporation. Method for production of modified oxymethylene polymers. 3,670,050, 6-13-72, Cl. 260-860.000.
Castner, John F. Cotton swab strip. 3,648,836, 3-14-72, Cl. 206-65.
Castoe, Alonzo R.: *See—*
Arnold, Thomas B.; Byrnes, Eugene B.; and Castoe, Alonzo R., 3,702,296.
Castoldi, Fabrizio, to Honeywell Information Systems, Italia S.p.A. Timing apparatus for high speed printer. 3,707,121, 12-26-72, Cl. 101-93.00c.
Castonguay, Roger A.; Hanley, Bernard C.; Mallahan, Francis J.; and Wenckus, Joseph F., to Little, Arthur D., Inc. Pressure- and temperature-controlled crystal growing apparatus. 3,639,718, 2-1-72, Cl. 219-10.67.
Castor, William M.: *See—*
Turley, Robert R.; Castor, William M.; and Nunnally, Kenneth R., 3,703,593.
Castrantas, Harry M.: *See—*
Keay, Robert E.; Castrantas, Harry M.; and MacKellar, Donald G., 3,635,667.
Castrantas, Harry M., to FMC Corporation. Enzymatic peroxydiphosphate hydrolysis. 3,666,399, 5-30-72, Cl. 8-111.000.
Castrantas, Harry M.; Keay, Robert E.; and MacKellar, Donald G., to FMC Corporation. Treatment of dry cleaning baths. 3,677,955, 7-18-72, Cl. 252-162.000.
Castrelon, Salvador C. Date harvesting device. 3,684,072, 8-15-72, Cl. 193-7.000.
Castrillon, Jose P. A., to United States of America, Atomic Energy Commission. Nitriles as scintillation solvents and solutes. 3,671,455, 6-20-72, Cl. 252-301.2sc.
Castro, Anthony J., to Akzona Incorporated. Polyhydroxamides and polyurethanes therefrom. 3,699,078, 10-17-72, Cl. 260-47.0cb.
Castro Convertibles Corporation: *See—*
Barabas, Andrew A., 3,688,705.
Barabas, John J., 3,654,642.
Castro, Manuel A. Machine for forming tied stacks of bales. 3,687,302, 8-29-72, Cl. 214-6.00b.
Castro, Rodolfo: *See—*
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Castrol Limited: *See—*
Elliott, John Scotchford; Edwards, Eric Descamp; and Jayne, Gerald John Joseph, 3,632,613.
Castronovo, Francesco: *See—*
Cuffaro, Antonino; Castronovo, Francesco; Bruno, Achille; and Rancati, Gianluigi, 3,670,060.
Castrucci, Paul P.; Gates, Harlan R.; Henle, Robert A.; Pricer, Wilbur David; Morton, Robert M.; Mason, John W.; and North, William D., to International Business Machines Corporation. Write once read only store semiconductor memory. 3,641,516, 2-8-72, Cl. 40-173.
Castrucci, Paul P.; Grochowski, Edward G.; North, William D.; and Palfi, Thomas L., to International Business Machines Corporation. Common emitter transistor integrated circuit structure. 3,648,130, 3-7-72, Cl. 317-235.
Castrucci, Paul P., to International Business Machines Corporation. Information card. 3,702,464, 11-7-72, Cl. 340-173.0sp.
Casty, Richard: *See—*
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Cataldo, Roy S., to General Motors Corporation. Shaft coupling. 3,657,902, 4-25-72, Cl. 64-13.
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Catherin, Jean-Michel, to Compagnie Generale d'Electricite. Monitoring apparatus. 3,654,479, 4-4-72, Cl. 250-231.

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Cattanach, John, to Mobil Oil Corporation. Selective separation by a chromatographic process. 3,699,182, 10-17-72, Cl. 260-674.0sa.
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Cattermole, George R.; Cummings, Austin M.; and Lyerly, William M., to Du Pont de Nemours, E. I., and Company. Water-in-oil emulsion type blasting agent. 3,674,578, 7-4-72, Cl. 149-2.000.
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Caubet, Jacques Jean, to Automobiles M. Berliet and Hydromecanique et Frottement. Friction elements of machines subjected to heavy loads. 3,658,576, 4-25-72, Cl. 117-105.
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Caulfield, Henry John; McMahon, Donald H.; and Soref, Richard A., to Sperry Rand Corporation. Stacked hologram apparatus. 3,635,538, 1-18-72, Cl. 350-3.5.
Caulfield, Henry John, to Sperry Rand Corporation. Space division multiplexed holographic apparatus. 3,674,331, 7-4-72, Cl. 350-3.500.
Caulier, Paul W.; and Greene, Donald W., to General Electric Company. Method and apparatus for monitoring hot boxes. 3,646,343, 2-29-72, Cl. 246-169.
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Cauquis, Roger Daniel. Fishing lure. 3,696,547, 10-10-72, Cl. 43-42.390.
Causer, Roy; Farren, John; Jones, Terence Leslie; Taylor, Brian Leslie; and Webster, Ronald Kerry, to United Kingdom Atomic Energy Authority. Scanning light detectors. 3,698,819, 10-17-72, Cl. 356-203.000.
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Cavagnero, Erman V.; and Loftus, Joseph F., to Torrington Manufacturing Company, The. Four-slide machine for producing bearings and the like. 3,654,693, 4-11-72, Cl. 29-564.
Cavagnero, Erman V.; and Loftus, Joseph F., to Torin Corporation. Four-slide machine with improved mandrel for producing bearings and the like. 3,675,460, 7-11-72, Cl. 72-399.000.
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Cavallari, Eugenio, to Ates Componenti Elettronici S.p.A. Stabilized voltage-step-down circuit arrangement. 3,641,267, 2-8-72, Cl. 178-7.3.
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Cavanaugh, Robert E., Jr., to Packard Instrument Company, Inc. Data processing system employing quench simulation for enabling accurate computation of sample activity levels in liquid scintillation spectrometry. 3,691,386, 9-12-72, Cl. 250-106.0sc.
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Caven, Robert Winton: *See*—
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Cavender, James V., Jr., to Monsanto Company. Process for the polymerization of ethylene comprising the simultaneous use of two Ziegler-type catalyst complexes. 3,686,160, 8-22-72, Cl. 260-94.90b.
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Caveney, Jack E.; Moody, Roy A.; and Roberson, Raymond F., to Panduit Corporation. Strap installation tool. 3,645,302, 2-29-72, Cl. 140-93.2.
Caveney, Jack E.; and Moody, Roy A., to Panduit Corporation. One-piece cable tie. 3,660,869, 5-9-72, Cl. 24-16.
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Caveney, Robert D.; and Harrison, Ronnie M., to American Astrionics, Inc. Track and hold apparatus. 3,659,117, 4-25-72, Cl. 307-238.
Caverly, Brian Leonard; and Rossell, John Barry, to Lever Brothers Company. Process for preparing edible fat compositions containing triglycerides derived from C_{16}, C_{18}, C_{20}, and C_{22} fatty acids. 3,706,576, 12-19-72, Cl. 99-118.00r.
Cavey, Richard R., to United States of America, Navy. Terrain avoidance system for a towed underwater vehicle. 3,656,095, 4-11-72, Cl. 340-3.
Cavil, David T., to Outboard Marine Corporation. Pulse generator. 3,646,377, 2-29-72, Cl. 310-168.

Cavil, David T.; Krueger, William R.; and Schmidt, Henry J., to Outboard Marine Corporation. Electrical circuit for steering and throttle control of a marine propulsion device. 3,662,243, 5-9-72, Cl. 318-588.
Cavil, David T., to Outboard Marine Corporation. Capacitor discharge ignition system with automatic spark advance. 3,667,441, 6-6-72, Cl. 123-148.
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Cellerini, Albert T.; Majcher, John; and Paton, Charles R., to Westinghouse Electric Corporation. Drawout switchgear. 3,681,545, 8-1-72, Cl. 200-50.0aa.

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Centofante, James Vincent. Adjustable magnetic door stop. 3,701,557, 10-31-72, Cl. 29-251.500.
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Cerney, Florian B.; and Cerney, Tina M. Card holder and dispenser. 3,659,535, 5-2-72, Cl. 108-136.
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Cerpelli, Orazio. Screw pump. 3,667,879, 6-6-72, Cl. 418-202.000.
Cerra, Peter A., to Dow Chemical Company, The. Process for heating polymers with dielectric heating. 3,640,913, 2-8-72, Cl. 260-2.5.
Cerri, Egidio, to Montecatini-Edison S.p.A. Polymeric thermoplastic compositions based on post-chlorinated polyvinylchloride having improved workability and impact resistance. 3,654,217, 4-4-72, Cl. 260-41.
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Cerutti, Giovanni; Costa, Armando; and Cortona, Alessandro, to Olivetti, Ing. C., & C., S.p.A. Punched tape feed and guiding device for paper tape punches or readers. 3,682,414, 8-8-72, Cl. 242-190.000.
Cervantez, Teodoso, 25% to Haile, J. B. Vehicle-attachable carrier for a workman and a supply of irrigation tubes. 3,649,041, 3-14-72, Cl. 280-32.5.
Cervenak, Peter J., to Nicholson Manufacturing Company. Log barker delimber and refuse-reducing mechanism. 3,653,417, 4-4-72, Cl. 144-3.
Cervenka, Joseph J.; and Hetzel, Marvin E. Clip. 3,646,654, 3-7-72, Cl. 29-190.
Cerveny, Daniel H.; Johnson, Perry T.; and Gaston, Donald H. Folding cart. 3,704,025, 11-28-72, Cl. 280-41.00a.
Cervera, Alberto J. Extra oral dental retractor and bite opener. 3,638,313, 2-1-72, Cl. 32-14.
Cervi, Frank R.; and Tonkyn, Richard G., to Betz Laboratories, Inc. Aminoalkylene phosphonate derivatives as corrosion inhibitors in aqueous systems. 3,705,005, 12-5-72, Cl. 21-2.700.
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Cesca, Sebastiano; Roggero, Arnaldo; and Marconi, Walter, to Snam Progetti S.p.A. Curable, amorphous, olefinic terpolymers. 3,647,767, 3-7-72, Cl. 260-80.7.
Cesca, Sebastiano; Arrighetti, Sergio; and Marconi, Walter, to Snam Progetti S.p.A. Curable, amorphous, olefinic terpolymers from alphamono olefins and polyenes. 3,652,514, 3-28-72, Cl. 260-80.78.
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Cescato, Richard W., to CPC International Inc. Starch derivatives, processes for making them, compositions based upon the novel starch derivatives and methods of making the compositions. 3,654,263, 4-4-72, Cl. 260-233.3.
Cescato, Richard W., to CPC International Inc. Compositions useful in the production of paper products and based upon novel starch derivatives. 3,706,584, 12-19-72, Cl. 106-214.000.
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Chabala, Leonard V.; and Evans, David M., to S&S Electric Company. Breather for operating mechanism housing for high voltage switches and the like. 3,696,729, 10-10-72, Cl. 98-1.000.

Chabala, Leonard V., to S & C Electric Company. High voltage switch with preinsertion resistor connected in the circuit through graphite corona balls. 3,697,712, 10-10-72, Cl. 200-146.00r.

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Chabardes, Pierre; and Colevray, Louis, to Rhone-Poulenc S.A. Ruthenium complexes and processes for their preparation. 3,647,832, 3-7-72, Cl. 260-429.

Chabardes, Pierre; Gandilhon, Pierre; Grard, Charles; and Thiers, Michel, to Rhone-Poulenc S.A. Process for the preparation of aliphatic dinitriles. 3,671,569, 6-20-72, Cl. 260-465.80d.

Chabek, Kurt Herwig, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Independent wheel suspension for vehicles. 3,652,104, 3-28-72, Cl. 280-96.2.

Chabert, Henri, to Rhone-Poulenc S.A. Anion exchange copolymers. 3,644,226, 2-22-72, Cl. 260-2.1.

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Chabot, Ferdinand E., to Square D Company. Parallel-pole circuit breaker. 3,706,056, 12-12-72, Cl. 335-10.000.

Chabot, Leo L., to North American Rockwell Corporation. Open End electrostatic spinning head. 3,699,760, 10-24-72, Cl. 57-58.890.

Chabot, Ronald W.; Leonard, George S.; and Sheena, David, to Whittaker Corporation. Movement monitoring apparatus. 3,699,856, 10-24-72, Cl. 95-1.100.

Chabrerie, Jean-Pierre; and Mailfert, Alain Jacques. Homopolar machine with multiple discs and a short inductor. 3,705,995, 12-12-72, Cl. 310-178.000.

Chabrier, Martial, to C.N.M.P. Berthiez. Tool support for a machine tool. 3,695,127, 10-3-72, Cl. 82-36.00r.

Chace, Donald E.; Melvin, James A., Jr.; Ricketts, Alan W., Jr.; Steinberger, Edward P.; and Symmes, David T., to Digital Equipment Corporation. Analyzer for sequencer controller. 3,701,113, 10-24-72, Cl. 340-172.500.

Chace, Richard L.; and Haun, Burton O., to General Electric Company. Back wired mounting system for static control. 3,702,983, 11-14-72, Cl. 339-126.00r.

Chace, W. M., Company: *See—*
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Chacko, Joseph, to Sargent Industries, Inc., mesne. Fluid pressure regulation mechanism having upslope regulating characteristics. 3,702,623, 11-14-72, Cl. 137-495.000.

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Chadbourne, Gilbert R., to Keyes Fibre Company. Pallet. 3,677,201, 7-18-72, Cl. 108-58.000.

Chaddha, Ashwani K. Modem controller. 3,644,896, 2-22-72, Cl. 340-172.5.

Chadenson, Pierre, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). Mercury manometer. 3,667,298, 6-6-72, Cl. 73-405.

Chadenson, Pierre, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). Apparatus for statically measuring the average density of a liquid circulating in a pipeline. 3,690,184, 9-12-72, Cl. 73-438.000.

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Chadha, Rajendra N.; Arthur, Ralph P.; and Schweiker, George C., to Shingleton, Carroll R. and Borg-Warner Corporation. High temperature nitrile elastomer. 3,697,489, 10-10-72, Cl. 260-80.700.

Chadha, Rajendra Nath; and Pande, Kailash Chandra, to Stauffer-Wacker Silicone Corporation. Room temperature curing organopolysiloxane elastomers. 3,664,997, 5-23-72, Cl. 260-185.

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Chadsey, Earl E., Jr.; and Feakes, Frank, to National Research Corporation. Production of high modulus laminates. 3,666,578, 5-30-72, Cl. 156-3.000.

Chadwick, Alexander, to Chrysler Corporation. Adjustable valve timing for NO_x control. 3,683,875, 8-15-72, Cl. 123-90.150.

Chadwick, Cecil G., to Union Carbide Corporation. Method of producing sized particles of low carbon ferrochromium. 3,635,699, 1-18-72, Cl. 75-130.5.

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Chadwick, George F., to Air Reduction Company, Incorporated. Use of an unadvanced silicone resin binder in resistor manufacture. 3,689,618, 9-5-72, Cl. 264-104.000.

Chadwick, Philip, to General Electric Company. Minimum valve voltage method and control apparatus for HVDC power converters. 3,701,938, 10-31-72, Cl. 321-11.000.

Chadwick, William R., to United States of America, Navy. Gun-launched glide vehicle with a mid-course and terminal guidance control system. 3,695,555, 10-3-72, Cl. 244-3.140.

Chadwick-Halmuth Electronics, Inc.: *See—*
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Chafetz, Harry; Blackley, William D.; and Kreuz, Kenneth L., to Texaco Inc. Hydrocarbon oxidation with nitric oxide and oxygen. 3,649,665, 3-14-72, Cl. 260-466.

Chafetz, Harry; Canning, William H.; and Morissette, Bertrand G., to Texaco Inc. Process for preparing hydrocarbon lubricating oil containing calcium alkylphenolate. 3,691,076, 9-12-72, Cl. 252-42.700.

Chaffee, Mack R.; and Paulson, Thomas M., to International Business Machines Corporation. Method of chip insertion. 3,634,162, 1-11-72, Cl. 156-154.
Chaffin, Chester C., to Ezy-Way Manufacturing & Sales Co. Lifting apparatus. 3,672,634, 6-27-72, Cl. 254-2.00c.
Chaffin, Chester C. Apparatus for handling carpet rolls. 3,702,139, 11-7-72, Cl. 214-38.00c.
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Chagnon, Verdun P. Scuba diving reel. 3,705,697, 12-12-72, Cl. 242-55.000.
Chai, Hi D.; Mills, Stephen H.; Pawletko, Joseph P.; Peters, Francis E.; and Young, Carl T., to International Business Machines Corporation. Magnetically actuated and restored print hammer. 3,705,370, 12-5-72, Cl. 335-229.000.
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Chaiet, Louis; and Kempf, August J., to Merck & Co., Inc. Purification of dextranase using iron salts. 3,652,401, 3-28-72, Cl. 195-66.
Chaiken, Malcolm; and McCracken, John Raymond. Process and apparatus for treating fibres with fluids. 3,681,951, 8-8-72, Cl. 68-44.000.
Chaikin, Boris Semenovich; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskov, Kirill Mikhailvoch; Borschevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, to Gosudarstvenny Sojuzny Institut Po Proektirovanijuagresgatov Staleliieinogo i Prokatnogo Proizvodstva Dlya Chernou Metallurgii. Oxygen toyere of a stee-melting mill. 3,697,058, 10-10-72, Cl. 266-34.001.
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Chaklader, Asoke C. D., to Canadian Patents and Development Limited. Preparing high density magnesia refractories. 3,666,851, 5-30-72, Cl. 264-66.000.
Chakoian, George; and Crowell, Russell T., to United States of America, Navy. Air brake for airborne missiles. 3,695,177, 10-3-72, Cl. 102-4.000.
Chakrabarti, Jiban Kumar; and Szinai, Stephen Slomo, to Lilly, Eli, and Company. Adamantanopyrimidine compounds and intermediates therefor. 3,644,356, 2-22-72, Cl. 260-251.
Chakrabarti, Jiban Kumar, to Lilly, Eli, and Company. Adamantanopyrrole compounds. 3,654,301, 4-4-72, Cl. 260-325.
Chakrabarti, Jiban Kumar; and Todd, Alec, to Lilly Industries, Ltd. Dihalo-s-triazine compounds. 3,681,332, 8-1-72, Cl. 260-248.0cs.
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Chakraverty, Benoy Kumar; and Plenier, Alain, to Agence Nationale de Valorisation de la Recherche (ANVAR). Metal-insulator-semiconductor structures. 3,679,947, 7-25-72, Cl. 317-234.00r.
Chalfant, George A., to Trans Container Corporation. High speed molding of hollow plastic articles. 3,707,591, 12-26-72, Cl. 264-97.000.
Chalfin, Gregory T.; Louapre, Merlin E.; and Olson, Richard C., to Aerojet-General Corporation. Scanning antenna having a circular lens with peripherally spaced linear arrays. 3,680,140, 7-25-72, Cl. 343-754.000.
Chalich, Charles, to Taylor Manufacturing Company. Package accumulating conveyor. 3,669,241, 6-13-72, Cl. 198-102.000.
Chalier, Genevieve; and Rassat, Andre. Method of preparation of homocamphor and homoepicamphor. 3,658,907, 4-25-72, Cl. 260-586.
Chalk, Alan J.; and Factor, Arnold, to General Electric Company. Method for stabilizing polycarbonates and compositions made thereby. 3,679,629, 7-25-72, Cl. 260-37.0pc.
Chalk, David L., to Armco Steel Corporation. Method of processing alpha-beta titanium alloy. 3,649,374, 3-14-72, Cl. 148-11.5.
Chalk, David L., to Armco Steel Corporation. Non-ridging chromium stainless steel. 3,674,467, 7-4-72, Cl. 75-126.00r.
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Chamberlain, Alan Hawker. Reversible transmission with friction and positive clutches. 3,680,409, 8-1-72, Cl. 74-792.000.
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Chamberlain, Harold B., to Hathaway Instruments, Inc. Push button switch and assembly. 3,652,964, 3-28-72, Cl. 335-205.
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Chamberlain, Terrance L.; Sears, Richard P.; and Fletcher, Ivan H., Jr., to Coin Sales Corporation. Method for making sandwich laminations in one pass. 3,697,360, 10-10-72, Cl. 156-551.000.
Chamberlain, William H.: *See—*
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Chamberlin, Coleman R. File folder paper fastener. 3,706,501, 12-19-72, Cl. 402-15.000.
Chamberlin, Donald W., to FMC Corporation. Multi-lane singulator for sorting peach halves. 3,633,728, 1-11-72, Cl. 198-32.
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Chamberlin, John H. Binding post construction. 3,647,306, 3-7-72, Cl. 402-48.
Chamberlin, Richard M.; Emswiller, James L.; Calderwood, Andrew S.; and Stana, Regis R., to Westinghouse Electric Corporation. Process for pressure casting of tubular reverse osmosis membranes using air driven casting bobs. 3,658,955, 4-25-72, Cl. 264-45.
Chamberlin, Richard M.; and Stana, Regis R., to Westinghouse Electric Corporation. Liquid treatment system for high pH water. 3,684,094, 8-15-72, Cl. 210-206.000.
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Chambers, Harold Victor. Artificial hip joint. 3,656,184, 4-18-72, Cl. 3-1.
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Chambers, Robert F. Experimental derrick and ladder assembly. 3,656,241, 4-18-72, Cl. 35-19.
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Chambers, Robert R.; and Stokan, Rudolph S., to Atlantic Richfield Company. Method and apparatus. 3,650,303, 3-21-72, Cl. 141-1.
Chambers, Robert R.; Isaacson, Henry V.; and Young, David W., to Atlantic Richfield Company. Vinyl-maleic acid thioetherester polymers or salts thereof as emulsifying agents. 3,650,978, 3-21-72, Cl. 252-356.
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Chambers, William W., to Robertshaw Controls Company. Current sensing apparatus. 3,659,155, 4-25-72, Cl. 317-148.5.
Chambers, William W., to Robertshaw Controls Company. Latch-on temperature control system. 3,659,782, 5-2-72, Cl. 236-68.
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Chambers, Worth L., to Sunbeam Corporation. Battery powered electric knife and charger-storage stand therefor. 3,679,958, 7-25-72, Cl. 320-2.000.
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Chambolle, Stephane; and Hanff, Michel Max, to Compagnie des Compteurs. Method and device for metering a vector particularly applicable to the metering of a fluid flow velocity. 3,641,816, 2-15-72, Cl. 73-189.
Chambon, Louis Jean, to Societe d'Etudes des Machines Specials Societe Anonyme. Rotary press with web tensioning roll means. 3,633,504, 1-11-72, Cl. 101-228.
Chambon, Louis Jean, to Societe d'Etudes de Machines Specials. Apparatus for receiving sheets cut from a web. 3,685,823, 8-22-72, Cl. 271-80.000.
Chambran, Jacques, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Machine for casting and stacking ingots. 3,633,652, 1-11-72, Cl. 164-269.
Chamecki, Samuel S., to Les Jouets Rationnels. Toy electric computer. 3,680,228, 8-1-72, Cl. 35-30.000.
Chameroy, Jean, to Societe Anonyme Groupement Atomique Alsacienne Atlantique (G.A.A.A.). Thermoplastic material compositions. 3,635,876, 1-18-72, Cl. 260-37.
Chamillard, George W.; and Winsor, David M., to Teradyne, Inc. Position locating apparatus employing multiple projecting lamps. 3,667,104, 6-6-72, Cl. 29-203.00b.
Chamness, Jame Thomas, to Du Pont de Nemours, E. I., and Company. Non-blocking adherent cellulose film. 3,649,334, 3-14-72, Cl. 117-62.2.
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Evers, William L.; and Champ, Antony E., 3,658,705.
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Champ, Antony E.; and Hendry, Charles Malcolm, to Celanese Corporation. Acrylonitrile polymerization. 3,697,492, 10-10-72, Cl. 260-85.5es.
Champ, Robert B.; Jurgens, Henry A.; and Thompson, James O., to International Business Machines Corporation. Method for posting intelligence on dizo sensitive microfiche. 3,640,714, 2-8-72, Cl. 96-49.
Champ, Robert Bruce; and Shattuck, Meredith David, to International Business Machines Corporation. Substrate layer for dichroic photoconductors. 3,634,079, 1-11-72, Cl. 96-1.5.
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Champaigne, John F., Jr., to Kimberly-Clark Corporation. Flushable fabric. 3,635,221, 1-18-72, Cl. 128-290.
Champaigne, John F., Jr., to Kimberly-Clark Corporation. Baffle for sanitary protection devices. 3,651,809, 3-28-72, Cl. 128-290.
Champaigne, John F., Jr., to Kimberly-Clark Corporation. Flushable sanitary napkin. 3,665,923, 5-30-72, Cl. 128-290.00w.
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Champion Paper Products Company: *See—*
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Chan, Joseph Y.; and Gupta, Dinesh C., to GTE Laboratories Incorporated. Apparatus for measuring electrical characteristics of a specimen in which testing electrodes are automatically lowered rapidly and then slowly into contact with the specimen. 3,644,82, 2-22-72, Cl. 324-158.
Chan, Joseph Y.; and Gupta, Dinesh C., to GTE Laboratories Incorporated. Apparatus and method for measuring electrical resistance employing constant output voltage technique. 3,646,436, 2-29-72, Cl. 324-64.
Chan, Kok Ewe: *See—*
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Chana, Howard E., to General Motors Corporation. Automatic transmission and controls. 3,638,771, 2-1-72, Cl. 192-3.33.
Chana, Howard E., to General Motors Corporation. Transmission control. 3,656,372, 4-18-72, Cl. 74-869.
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Chance, A. B., Company: *See—*
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Chance, Leon H.; and Moreau, Jerry P., to United States of America, Agriculture. Phosphorus-containing triazines. 3,654,274, 4-4-72, Cl. 260-249.8.
Chancel, Marcel Georges. Fluid pressure system for obtaining controlling or correcting micrometric displacements in machine-tools and other apparatus. 3,688,500, 9-5-72, Cl. 60-54.50r.
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Chandler, Craig S., to Phillips Petroleum Company. Programmer for chromatographic analyzer. 3,633,404, 1-11-72, Cl. 73-23.1.
Chandler, Edmond A.; Pearsall, Ralph E.; Winslow, Kenelm W.; and Yarrison, Walter W., to USM Corporation. Adhesive strips. 3,658,632, 4-25-72, Cl. 161-150.
Chandler, Edward A., to Tenelux Limited. Emergency lighting system. 3,660,714, 5-2-72, Cl. 315-86.
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Chandra, Grish; Owen, William J.; Lloyd, Norman C.; and Cooper, Bryan E., to Midland Silicones Limited. Organosilicon compounds. 3,699,140, 10-17-72, Cl. 260-448.20n.
Chandrasekaran, Swayambu, to Allied Chemical Corporation. Process for preparing perfluoro-2-butyne polymer. 3,684,786, 8-15-72, Cl. 260-92.100.
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Chaneton, Justo Leonardo. Strainer or filter for cleaning fluids. 3,633,755, 1-11-72, Cl. 210-439.
Chaney, Clarence E.; and Haddox, Wendell L. Roller attachment for vehicles. 3,665,823, 5-30-72, Cl. 94-50.00r.
Chaney, John L. Explosion-proof candy thermometer. 3,636,769, 1-25-72, Cl. 73-371.
Chaney, John L. Candy thermometer. 3,636,770, 1-25-72, Cl. 73-376.
Chaney, Larry R.; and Coughlin, Edwin J., to Contecknix, Inc. Modular conductor system. 3,659,247, 4-25-72, Cl. 339-21.
Chaney, Preston E.; and Anderson, Terry O., to Halliburton Company. Method and apparatus for telemetering information through well bores. 3,659,259, 4-25-72, Cl. 340-18.
Chaney, Preston E., to Sun Oil Company. Offshore storage system. 3,664,286, 5-23-72, Cl. 114-.5.
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Chang, Catherine Teh-Lin, to Du Pont de Nemours, E. I., and Company. Photopolymerizable compositions containing aminophenyl ketones and adjuvants. 3,661,588, 5-9-72, Cl. 96-86.
Chang, Charles H.; and Randall, David I., to GAF Corporation. Naphthyl and anthracenyl butenyl sulfones. 3,655,772, 4-11-72, Cl. 260-607.
Chang, Charles H.; and Randall, David I., to GAF Corporation. Reaction of 1,3-butadiene and organic sulfonyl halides. 3,674,856, 7-4-72, Cl. 260-607.00a.
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Chang, Chuas Chung; Marcus, Robert Boris; and Wagner, Richard Siegfried, to Bell Telephone Laboratories, Incorporated. Light-sensitive storage device including diode array and method for producing the array. 3,687,745, 8-29-72, Cl. 148-187.000.
Chang, Clarence D.; and Logiudice, Albert S., to Pullman Incorporated. Isopropyl alcohol process. 3,644,541, 2-22-72, Cl. 260-641.
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Chang, David C.; and Lipp, James, to International Business Machines Corporation. Beam motion compensation in optical image transfer systems having moving parts. 3,636,838, 1-25-72, Cl. 95-4.5.
Chang, David T. L. Packing guide for flexible materials. 3,698,655, 10-17-72, Cl. 242-76.000.
Chang, Elizabeth Puiiu, to Eastman Kodak Company. Direct-positive silver halide emulsions containing gold salt complex addenda. 3,672,903, 6-27-72, Cl. 96-108.000.
Chang, Henry M., to First Dynamics, Inc. Combination food container and implement for extracting the contents. 3,679,093, 7-25-72, Cl. 220-90.200.
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Chang, Hsu; Keefe, George E.; Lin, Yeong S.; and Rosier, Laurence L., to International Business Machines Corporation. Cylindrical magnetic domain decoder. 3,689,902, 9-5-72, Cl. 340-174.0tf.
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Chang, Kuo Yuan, to Dow Chemical Company, The. Method of reducing the halogen content of halo-aromatics. 3,686,337, 8-22-72, Cl. 260-650.00r.
Chang, Leroy L.; and Esaki, Leo, to International Business Machines Corporation. Semiconductor device having many fold IV characteristics. 3,668,480, 6-6-72, Cl. 317-234.000.
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Chang, Robert Wu-Lin, to Bell Telephone Laboratories, Incorporated. Fast start-up system for automatic transversal equalizers. 3,697,897, 10-10-72, Cl. 333-18.000.
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Chang, William J. H., to Yoder Company, The. Pipe mill. 3,635,064, 1-18-72, Cl. 72-178.
Chang, William Shen Chie, to Bell Telephone Laboratories, Incorporated. Deflection of electromagnetic beams from guides by acoustical surface waves. 3,655,261, 4-11-72, Cl. 350-96.
Chang, Yun Ger, to Reichhold Chemicals, Inc. Certain peroxy-containing 2-oxo-tetrahydrofurans. 3,647,822, 3-7-72, Cl. 260-343.6.
Chang, Yun Ger; and Bailey, Philip S., to Reichhold Chemicals, Inc. Organic pseudo peresters. 3,654,315, 4-4-72, Cl. 260-343.3.
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Goodhart, Steven E.; and Channels, Alfred C., 3,687,321.
Channing, Derek, to Lucas, Joseph, (Industries) Limited. Internal combustion engine gasoline injection system. 3,664,319, 5-23-72, Cl. 123-140.0mc.
Channing, Harry M., to General Battery and Ceramic Corporation. Method of testing an automobile battery and electrical system while in circuit, using a booster battery. 3,638,108, 1-25-72, Cl. 324-29.5.
Chanod, Edward E.: *See*—
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Chant, Leonard H., to Euclid, Inc. Exhaust diverting valve for dumpable vehicles having heated dump bodies. 3,664,706, 5-23-72, Cl. 298-1.
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Chantland, Alfred; and Chantland, Kermit C., to Douglas & Lomason Company. Tractor-trailer combination connected for maneuverability as a unit assembly. 3,689,109, 9-5-72, Cl. 280-473.000.
Chantland, Kermit C.: *See*—
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Chao, Sidney C.: *See*—
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Chao, Stanley K., to Data Electronics Corporation. Ring core keyboard entry device. 3,688,307, 8-29-72, Cl. 340-365.000.
Chao, Tai S.; and Kjonaas, Manley, to Atlantic Richfield Company. Diesters of aromatic dihydroxy carbonyl compounds and branched chain fatty acids containing a quaternary carbon atom. 3,632,630, 1-4-72, Cl. 260-479.
Chao, Tai S.; and Roush, Allan N., to Atlantic Richfield Company. Stable synthetic ester lubricant composition. 3,655,562, 4-11-72, Cl. 252-51.5.
Chapa, Ruben F. End stop assembly for an automatic cut-off saw. 3,675,690, 7-11-72, Cl. 143-46.00f.
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Chaparro, John J.; Ellis, Lowell V.; Meanor, Doyle W.; Morton, William D., Jr.; Richelmann, Bernd H.; Ross, George B.; and Toth, John E., to Delta Design, Inc. Integrated circuit handling system. 3,677,401, 7-18-72, Cl. 209-73.000.
Chapin, James R.: *See*—
Noble, Philip S.; and Chapin, James R., 3,700,128.
Chapin, Jay C., to Ventron Instruments Corporation Scientific Chemicals Division. Fire resistant fibers and fabric. 3,642,525, 2-15-72, Cl. 117-136.
Chapin, Jay C., to Ventron Instruments Corporation, Scientific Chemicals Division. Method of flame-proofing cellulosic materials and product produced thereby. 3,684,559, 8-15-72, Cl. 117-102.00r.
Chapin, Richard D. Spinner spray system. 3,682,389, 8-8-72, Cl. 239-222.210.
Chapin, Richard D. Water distributing hose. 3,698,195, 10-17-72, Cl. 61-12.000.
Chapiro, Adolphe; and Jendrychowska-Bonamour, Anna-Maria, to Centre National de la Recherche Scientifique. Sequential graft copolymerization of acid and basic monomers onto a perhalogenated olefin polymer. 3,666,693, 5-30-72, Cl. 260-2.5.
Chaplin, Merle P. Removing deep silt and muck deposits. 3,659,712, 5-2-72, Cl. 210-73.
Chaplin, Merle P. Apparatus for removing marine growths and roots. 3,706,185, 12-19-72, Cl. 56-9.000.
Chaplin, Merle P. Method of processing weeds. 3,707,070, 12-26-72, Cl. 56-1.000.
Chaplin, Richard W.; Holscher, Donald J.; Wasney, Albert, Jr.; and Wheeler, Bryce A., to Hughes Aircraft Company. Night vision system. 3,641,261, 2-8-72, Cl. 178-7.8.
Chaplinski, Charles A. Snowmobile trailer. 3,658,200, 4-25-72, Cl. 214-373.
Chaplinski, Frank, to Nestle-Lemur Company, The. Device for orienting reduced-neck bottles. 3,631,955, 1-4-72, Cl. 193-43.
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Chapman, Charles Brian: *See*—
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Chapman, Charles C., to Phillips Petroleum Company. Isostripper with normal butane removal in an alkylation system. 3,647,905, 3-7-72, Cl. 260-683.4.
Chapman, Charles C., to Phillips Petroleum Company. Alkylation with charge stock from isomerization and hydrogenation reactions. 3,663,646, 5-16-72, Cl. 260-683.4.
Chapman, Charles Wallace, to Twiflex Couplings Limited. Rotatable couplings. 3,650,124, 3-21-72, Cl. 64-19.
Chapman, Charles Walter; and Matthews, Eric, to Hallite Holdings Limited. Guillotine cutting machine. 3,649,416, 3-14-72, Cl. 156-523.
Chapman, Clifford Victor Gascoyne: *See*—
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Chapman, Daniel W.; Michaelsen, John D.; and Stryker, Frederick J., to International Business Machines Corporation. Composition of ferroelectric matter. 3,666,665, 5-30-72, Cl. 252-62.900.
Chapman, Daniel W., to International Business Machines Corporation. Ferroelectric/photoconductor memory element. 3,681,765, 8-1-72, Cl. 340-173.200.
Chapman, Daniel W.; and Mehta, Rajendra R., to International Business Machines Corporation. Ferroelectric/photoconductor storage device with an interface layer. 3,681,766, 8-1-72, Cl. 340-173.200.
Chapman, Dave: *See*—
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Chapman, Derek D.; and Brooker, Leslie G. S., to Eastman Kodak Company. Magenta dye developer and transfer system employing same. 3,649,266, 3-14-72, Cl. 96-3.
Chapman, Derek D., to Eastman Kodak Company. Yellow dye developers and transfer systems employing same. 3,653,897, 4-4-72, Cl. 96-3.
Chapman, Douglas W.; Overley, Richard Dean; Rands, Robert D., Jr.; and Schreiber, Ronald S. Method of making colored pigments having pearlescent qualities. 3,647,492, 3-7-72, Cl. 106-291.
Chapman, Douglas W.; McKellin, Wilbur H.; and Overley, R. Dean, to Mallinckrodt Chemical Works. Pearlescent pigment. 3,656,982, 4-18-72, Cl. 106-291.
Chapman, Duane K.; Green, William S.; and Newman, John W., to Ashland Oil Inc. Process for arylating aromatic compounds with molecular sieve catalyst. 3,642,926, 2-15-72, Cl. 260-670.
Chapman, Dwain R., to Dow Corning Corporation. Carborane-siloxane polymers. 3,661,847, 5-9-72, Cl. 260-46.5.
Chapman, Dwain R., to Dow Corning Corporation. Preparation of siloxy-carboranyl polymers. 3,689,455, 9-5-72, Cl. 260-46.50e.
Chapman, Earle F., Jr.; and Ruskin, Bernard J., to Chapman Manufacturing Company. Multiple position, variable intensity lamp. 3,694,647, 9-26-72, Cl. 240-81.00r.
Chapman, Edwin Albert: *See*—
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Chapman, Eric George Arthur, to Ilford Limited. Web-cutting apparatus. 3,668,962, 6-13-72, Cl. 83-323.000.
Chapman, George C.; and Le Sueur, James T., to Owens-Illinois, Inc. Apparatus for methods for melting glass compositions for glass laser rods. 3,656,924, 4-18-72, Cl. 65-32.
Chapman, Gerald W.: *See*—
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Chapman, Grosvenor, to Chapman & Miller Architects. Collapsable roof for preassembled building. 3,638,373, 2-1-72, Cl. 52-92.

Chapman, Harry Samuel. Static autogenous sealing bar. 3,660,210, 5-2-72, Cl. 156-583.
Chapman, Harvey A.: *See—*
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Chapman, Harvey W.; and Shook, Jackson A., to Evans Products Company. Freight bracing system. 3,680,491, 8-1-72, Cl. 105-369.00b.
Chapman, Howard D.; and Panico, Vincent A., to Clarin Corporation. Chair with tiltable seat. 3,638,982, 2-1-72, Cl. 297-332.
Chapman, Howard D., to Clarin Corporation. Collapsible arm chair. 3,703,312, 11-21-72, Cl. 297-35.000.
Chapman, James E. Thermoelectric pillow. 3,648,469, 3-14-72, Cl. 62-3.
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Chapman, John H., to Georgia Kaolin Company. Clay processing. 3,655,417, 4-11-72, Cl. 106-288.
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Chapman, Martin Wykeham, to Colonial Sugar Refining Company Limited, The. Dry cane cleaning and spreading. 3,635,336, 1-18-72, Cl. 209-3.
Chapman, Philip J., to Liquid Carleonic Canadian Corporation, Limited. Welding electrode. 3,694,259, 9-26-72, Cl. 117-206.000.
Chapman, Richard L. Manually operable cantilevered type exercising device. 3,690,655, 9-12-72, Cl. 272-81.
Chapman, Robert Dean; and Grant, Swick Edwin, to Illinois Tool Works Inc. Molded article, mold and method of manufacture. 3,651,704, 3-28-72, Cl. 74-230.01.
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Chapman, Robert R., to Sortex Company of North America, Inc. Grading machine. 3,701,418, 10-31-72, Cl. 209-99.000.
Chapman, Ronald H., to Motorola, Inc. Active filter for selecting and controlling signals. 3,696,252, 10-3-72, Cl. 307-233.000.
Chapman, Ronald W., to Shell Oil Company. End-of-tubing locator. 3,696,865, 10-10-72, Cl. 166-64.
Chapman, Thomas Henry, to Gunson's Sortex Limited. Apparatus for controlling a flow of a pressure fluid. 3,695,517, 10-3-72, Cl. 239-583.000.
Chapman, Vincent Frank, to Redland Tiles Limited. Conveyors. 3,631,574, 1-4-72, Cl. 25-11.
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Chapou, Yves. Mixing faucet. 3,675,683, 7-11-72, Cl. 137-637.400.
Chapou, Yves. Thermostatic mixing faucet. 3,685,728, 8-22-72, Cl. 236-12.000.
Chappel, Howard E.: *See—*
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Chappell, Albert R., to Metalife Company, The. Can with lid opener. 3,661,292, 5-9-72, Cl. 220-43.00r.
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Chappell, Robert N.; and Carroll, Robert L., to Lockheed Aircraft Corporation. Propellant grain suspension system. 3,672,170, 6-27-72, Cl. 60-255.000.
Chappelle, Emmett W.; and Picciolo, Grace L., to United States of America, National Aeronautics and Space Administration. Flavin co-enzyme assay. 3,660,240, 5-2-72, Cl. 195-103.50r.
Chapron, Claude, to U.S. Philips Corporation. Semiconductor device having an integrated pulse gate circuit and method of manufacturing said device. 3,654,498, 4-4-72, Cl. 307-303.
Chapuis, Robert, to Etablissements Ruby S.A. Machine for rolling up flexible articles. 3,658,273, 4-25-72, Cl. 242-67.1.
Chapuis, Robert, to Etablissements Ruby S.A. Sanitary napkin. 3,699,966, 10-24-72, Cl. 128-290.00r.
Charamel, Andre; Duroux, Jacques Marius; Siquet, Serge; and Descroix, Jaques; deceased (by Gras, Daniel; legal representative), to Rhone-Poulenc S.A. Process for the production of oxalic acid. 3,692,830, 9-19-72, Cl. 260-533.00r.
Charamel, Pierre; Jaillet, Jean; Pelenc, Yves; and Voulat, Maurice, to Merlin Gerin, Societe Anonyme. High-voltage disconnecting switch with sliding contact. 3,657,495, 4-18-72, Cl. 200-16.
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Vergne, Jean; Solaux, Leon; Robinet, Jean-Claude; and Lacroix, Philippe, 3,676,390.
Charbonneau, Marcel L. Beam displacer. 3,659,926, 5-2-72, Cl. 350-285.
Charbonneaux, Wilson A., to Simmonds Precision Products, Inc., mesne. High visibility meter. 3,641,967, 2-15-72, Cl. 116-129.
Charbonnier, Georges R. Control and measure instrument for underwater diving. 3,696,610, 10-10-72, Cl. 58-145.00r.
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Charbonnier, Roger Charles, to Adret-Electronique Vladimir Komarov Trappes. Function generator and variable capacity diode oscillator employing said generator. 3,684,982, 8-15-72, Cl. 331-177.00v.
Charchalis, Taras I., to Bethlehem Steel Corporation. Nail separator. 3,670,884, 6-20-72, Cl. 209-80.000.
Charchian, Loris J.; and Lech, Thaddeus, to Formspray Company. Anti-reverse clutch safety device. 3,693,770, 9-26-72, Cl. 192-30.00w.
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Chari, Nallan C. S.; Charos, Andrew D.; and Walker, Harry D., Jr., to Owens-Illinois, Inc. Continuously controlling the basis weight of paper by a timed basis weight valve position signal. 3,634,187, 1-11-72, Cl. 162-198.
Chari, Nallan C. S.; Olson, Kermit E.; and Shick, Philip E., to Owens-Illinois, Inc. Recovery of sulfur values from flue gases with oxidized neutral sulfite green liquor. 3,647,363, 3-7-72, Cl. 23-25.
Charier-Vadrot, Pierre L. J. Aromatic substances obtained from animal or vegetable tissues. 3,655,408, 4-11-72, Cl. 99-140.
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Charlap, E. Paul; Baumgarten, Fritz; and Fischer, Lothar, to Savin Business Machines Corporation. Electrostatic copier. 3,639,051, 2-1-72, Cl. 355-3.
Charle, Roger; Kalopissis, Gregoire; and Zviak, Charles, to L'Oreal. Aerosol composition and method for producing same. 3,679,102, 7-25-72, Cl. 222-192.000.
Charle, Roger; Zviak, Charles; and Kalopissis, Gregoire, to Societe anonyme dite: L'Oreal. Cosmetic composition containing microencapsulated solvents for nail enamel. 3,686,701, 8-29-72, Cl. 15-104.930.
Charle, Roger; Zviak, Charles; and Kalopissis, Gregoire, to Societe Anonyme dite: L'Oreal. Cosmetic makeup removing or treating composition which is microencapsulated and incorporated in a flexible support. 3,691,270, 9-12-72, Cl. 424-28.000.
Charle, Roger; Zviak, Charles; and Kalopissis, Gregoire. Sanitary napkin having homogeneous distributed microcapsules filled with delay releasable bactericidal and fungicidal deodorant. 3,691,271, 9-12-72, Cl. 424-28.000.
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Charles, James A.: *See—*
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Charles, James F., to Shur-Lok Corporation. Sectional sandwich panel insert with frictional telescopic coupling. 3,678,535, 7-25-72, Cl. 16-2.000.
Charles, Joseph T., to Coil Sales, Inc. Package for encapsulated electrical components. 3,691,294, 9-12-72, Cl. 178-46.000.
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Charlesworth, Eric, to Jenkins, Robert, & Company Limited. Method of multiple spot welding. 3,686,463, 8-22-72, Cl. 219-127.000.
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Charlier, J. Edson; and Schell, Elmer H. Concrete pan forms. 3,695,574, 10-3-72, Cl. 249-175.000.
Charlson, Robert J.; and Ahlquist, Norman C., to Battelle Development Corporation, The, mesne. Method and apparatus for making an in-situ determination of the chemical properties of atmospheric aerosols. 3,700,333, 10-24-72, Cl. 356-103.000.
Charlton, Gregory G., to International Telephone and Telegraph Corporation. Simplified multi-beam cylindrical array antenna with focused azimuth patterns over a wide range of elevation angles. 3,653,057, 3-28-72, Cl. 343-854.
Charlton, Gregory G.; Hanratty, Robert J.; and Ohta, Hiram H., to International Telephone and Telegraph Corporation. Electronic technique for an all-electronic cylindrical array beacon antenna. 3,670,336, 6-13-72, Cl. 343-106.000.
Charlton, James R.: *See—*
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Charlton, Kyle W., to California Institute of Technology. Gas analysis system and method. 3,638,397, 2-1-72, Cl. 55-16.
Charlton, Thomas; and Cation, Kenneth L., to Westinghouse Electric Corporation. Dynamoelectric machine with lint guard for terminals. 3,707,637, 12-26-72, Cl. 310-71.000.
Charman, Walter M., Jr.; Hayes, Robert R.; Middaugh, George J., Jr.; and Wetzig, John M., III, to Oglebay Norton Company. Method and apparatus for forming a member from an excess slurry of refractory material. 3,697,631, 10-10-72, Cl. 264-37.000.
Charnay, Henri. Drawing tables. 3,641,946, 2-15-72, Cl. 108-6.
Charneski, Mitchell D., to Detroit Edison Company, The. Electric broiler heating unit. 3,688,084, 8-29-72, Cl. 219-537.000.
Charney, Andrew. Fish lure. 3,705,465, 12-12-72, Cl. 43-42.006.
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Charrier, Andre George; Mascarello, Jean Marius; and Rigollot, Georges Alfred, to Electricite de France (Service National). Power generating plant. 3,631,673, 1-4-72, Cl. 60-39.18.
Charrier, Rene, to Commissariat a l'Energie Atomique and Realisations Techniques Industrielles. Addition compositions for acid electroplating baths. 3,642,588, 2-15-72, Cl. 204-44.
Charrier, Rolf. Means for setting the hands of a timepiece. 3,685,281, 8-22-72, Cl. 58-85.500.
Charron, Dwayne W., to Bangor Punta Operations, Inc. Gun sight. 3,662,469, 5-16-72, Cl. 33-47.000.
Charron, Jean. Camper trailer. 3,677,600, 7-18-72, Cl. 296-27.000.
Charron, John R. E. Fishing lure. 3,654,724, 4-11-72, Cl. 43-42.06.
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Charters, Thomas H., to Tektronix, Inc. Apparatus for automatically testing integrated circuit devices. 3,676,777, 7-11-72, Cl. 324-73.00r.
Chartet, Andre, to Societe Anonyme des Usines Chausson. Process of fabricating a radiator core. 3,648,344, 3-14-72, Cl. 29-157.3.
Chartet, Andre, to Societe Anonyme des Usines Chausson. Process for fluxing and brazing parts made of aluminium or aluminium alloy. 3,667,111, 6-6-72, Cl. 29-495.000.
Chartet, Andre, to Societe Anonyme des Usines Chausson. Method of fabricating and soldering stainless steel parts. 3,689,941, 9-12-72, Cl. 29-157.30r.
Chartet, Andre, to Societe Anonyme des Usines Chausson. Process for brazing parts of aluminium and aluminium alloys. 3,694,899, 10-3-72, Cl. 29-495.000.
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Chartier, Guy, to Chartier, Guy, Tools Limited. Wheel support. 3,635,434, 1-18-72, Cl. 248-352.
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Charvier, Henri; and Vernet, Jean-Louis. Fluid speed measuring system. 3,631,719, 1-4-72, Cl. 73-194.
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Scherban, Alexandr Nazarievich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.
Chase, Ascher, to General Foam Plastics Corporation. Pool structure with built-in, externally supported slide. 3,665,523, 5-30-72, Cl. 4-172.000.
Chase, Ascher, to General Foam Plastics Corporation. Pool structure with built-in externally supported step-slide. 3,668,715, 6-13-72, Cl. 4-172.000.
Chase Brass and Copper Company Incorporated: *See—*
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Chase Corporation: *See—*
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Chase, Curtis A., Jr.; and Prats, Michael, to Shell Oil Company. Method for determining the reservoir properties of a formation. 3,690,167, 9-12-72, Cl. 73-155.000.
Chase, Erin O. Mop handle mounting. 3,692,369, 9-19-72, Cl. 306-19.000.
Chase, Eugene W.; and Robinson, Harold J., to Bell Telephone Laboratories, Incorporated. Tin oxide etching method. 3,668,089, 6-6-72, Cl. 204-143.00r.
Chase, Frank F.: *See—*
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Chase, Fred L.: *See—*
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Chase Manhattan Capital Corporation, mesne: *See—*
Becker, Carl H.; Dell, Harold R.; McFarland, Keith E.; and Wong, Herman, 3,665,483.
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Chase, Marston S. Picture mat and mount method and article. 3,687,770, 8-29-72, Cl. 156-221.000.
Chase, Michael John; and Smith, Derek Anthony, to Imperial Metal Industries (Kynoch) Limited. Rocket motors. 3,686,868, 8-29-72, Cl. 60-200.00a.
Chase, Raymond Burt, to Dow Chemical Company, The. Method of repairing a ceramic lined nozzle. 3,651,558, 3-28-72, Cl. 29-401.
Chase, Robert A.: *See—*
Iwanciow, Bernard L.; and Chase, Robert A., 3,664,133.
Chase, Wayne R.: *See—*
Ruf, Franz X.; Chase, Wayne R.; and Prell, Raymond A., 3,703,881.
Chase, William B.; Jendrisak, Joseph E.; and Kelvey, Harold E., to Shatterproof Glass Corporation. Windowed doors for self-cleaning ovens. 3,692,015, 9-19-72, Cl. 126-200.000.
Chase-Shawmut Company, The: *See—*
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Chasen, Alvin M.: *See—*
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Chass, Jacob, to Pickering & Company, Inc. Variable scale differential transformer. 3,663,911, 5-16-72, Cl. 336-132.

Chass, Jacob, to Pickering & Company, Inc. Temperature compensating differential transformer. 3,694,785, 9-26-72, Cl. 336-136.000.

Chassang, Pierre Robert, to Lissmetal Lionel-Dupont. Presser belt for firmly engaging articles with a conveyor. 3,690,444, 9-12-72, Cl. 198-165.000.

Chastain George R.: *See—*
Karecki, Marion R.; Chastain George R.; and Barnes, Thomas R., 3,685,690.

Chastain, James K.: *See—*
McKee, James R.; and Chastain, James K., 3,640,039.

Chastan-Bagnis, Lucien. Self-propelled floating dock and separator filter assembly for treating polluted water surfaces and nautical works. 3,695,441, 10-3-72, Cl. 210-292.000.

Chaston Medical & Surgical Products, Inc.: *See—*
Stone, Charles E., 3,698,393.

Chatagnier, Francis J. Apparatus to detect mature heads of lettuce in a crop row. 3,632,919, 1-4-72, Cl. 200-61.42.

Chatard, Michel; and Reynard, Remi, to Institut Francais du Petrole, des Carburants et Lubrifiants. Drilling column comprising a device for measuring stresses exerted on the column. 3,686,942, 8-29-72, Cl. 73-151.000.

Chatard, Michel; Grolet, Pierre; and Reynard, Remi, to Institut Francais Du Petrole des Carburants et Lubrifiants Rueil Malmaison. Device for gripping elongated members. 3,697,114, 10-10-72, Cl. 294-86.260.

Chateau, Christian: *See—*
Burkhardt, Max; Huber, Horst; and Chateau, Christian, 3,707,184.

Chatelain, Jean, to Produits Chimiques Pechiney-Saint-Gobain. Expansible pearls containing ethyl-ethylene, propylene, and SO_2 groups in a copolymer and processes of making them. 3,655,592, 4-11-72, Cl. 260-2.5.

Chatelain, Jean; and Soussan, Salomon, to Produits Chimiques Pechiney-Saint-Gobain. Process for preparing vinyl based polymers and copolymers insoluble in their monomers. 3,678,021, 7-18-72, Cl. 260-80.810.

Chatelain, Jean, to Produits Chemiques Pechiney Saint-Gobain. Copolymers of vinyl chloride and lower olefines. 3,683,051, 8-8-72, Cl. 260-878.00r.

Chatelet, Henri: *See—*
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Chatham Container Display Corporation: *See—*
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Chatham, James R.; and Licata, William H., to United States of America, Navy. Rate stabilization system for a vehicle mounted device. 3,640,178, 2-8-72, Cl. 89-41.

Chatillon, John; division of Macrodyne-Chatillon Corporation: *See—*
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Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,621.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,622.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,623.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,624.
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Patron, Luigi; Moretti, Alberto; and Sinatora, Gian Paolo, 3,642,738.
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Chatin, Remy, to Moulinage et Retorderie de Chavanoz. Guide element for use in producing novelty yarns. 3,683,607, 8-15-72, Cl. 57-18.000.

Chatourel, Pierre; and Lefebvre, Jean, to Regie Nationale des Usines Renault. Automatically operated multiple cavity die for low-pressure chill-casting. 3,698,471, 10-17-72, Cl. 164-340.000.

Chattanooga Medicine Company, The: *See—*
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Chattem Chemicals; division of Chattem Drug & Chemical Company: *See—*
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Chattem Drug & Chemical Company: *See—*
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Chatten, Clarence K.: *See—*
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Chatterjea, Probir K.: *See—*
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Chatterjea, Probir K., to International Harvester Company. Hydrostatic transmission hydraulic control and single lever for operating same. 3,677,362, 7-18-72, Cl. 180-6.480.

Chatterjee, Anil K.: *See—*
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Chatterjee, Anil K.; and O'Grady, James R., to Carborundum Company, The. On-site incinerator. 3,664,277, 5-23-72, Cl. 110-8.

Chatterjee, Ranjit K., to Birdsboro Corporation. Vernier adjustment for a pinion stand and the like. 3,686,918, 8-29-72, Cl. 72-198.000.

Chatterji, Arun K.: *See—*
Palermiti, Frank M.; and Chatterji, Arun K., 3,655,374.

Chattoraj, Shib C.; Lynch, Charles T.; and Mazdiyasni, Khodabakhsh. Zirconium tetrakis (hexafluoroacetylacetonate) and hafnium tetrakis (hexafluoroacetylacetonate). 3,634,477, 1-11-72, Cl. 260-429.3.

Chaudhary, Banwari Lal. Constructional elements. 3,648,426, 3-14-72, Cl. 52-633.

Chaumeau, Andree: *See—*
Croissant, Pierre Michel Rene; Armbruster, Jean-Claude; and Chaumeau, Andree, 3,697,327.

Chaumont, Gerard: *See—*
D'Acremont, Alain F.; Chaumont, Gerard; and Lefeuvre, Alain P., 3,636,869.

Chaumont, Robert Jean, to Societe Anonyme de Telecommunications. Process for the simultaneous adjustment of attenuation of a transmission chain and of the level of a test signal and apparatus therefor. 3,662,126, 5-9-72, Cl. 179-175.3.

Chaupit, Jean, to Compagnie Generale d'Electricite. Device for simultaneously controlling interconnected semiconductor arrangements. 3,654,542, 4-4-72, Cl. 321-27.

Chausse, Burnette P.: *See—*
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Chausse, Burnette P.; and Konrad, Charles E., to General Electric Company. Induction motor speed control. 3,671,831, 6-20-72, Cl. 318-227.000.

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Chaussonnet, Pierre E.: *See—*
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Chauveton, Charles E.: *See—*
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Chauvette, Robert R., to Lilly, Eli, and Company. Cleavage of acylamidocephalosporins and acylamidopenicillins. 3,632,578, 1-4-72, Cl. 260-243.

Chauvin, Louis E. Boat turn-brake. 3,693,569, 9-26-72, Cl. 114-.50r.

Chauvin, Yves; Lefebvre, Gilles; and Uchino, Masahiro, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for dimerizing and codimerizing olefins. 3,655,810, 4-11-72, Cl. 260-683.15.

Chavant, Claude, to Chrysler France. Idling regulator for internal combustion engine carburetors. 3,631,844, 1-4-72, Cl. 123-97.

Chavant, Claude, to Chrysler France. Device for the injection of gases into the feed system of an internal combustion engine. 3,680,534, 8-1-72, Cl. 123-119.00a.

Chavarria, Melchor J. Hydraulic lift for automotive vehicles. 3,687,015, 8-29-72, Cl. 92-53.000.

Chavarria, Melchor Julio; and Risso, Osvaldo. Double-acting hydraulic pump. 3,686,687, 8-22-72, Cl. 417-223.000.

Chavez, Abraham, Jr. Violin chin rest. 3,683,098, 8-8-72, Cl. 84-278.000.

Chavez, Ethor S. Television monitoring and program information display device and method. 3,644,929, 2-22-72, Cl. 346-1.

Chay, Dong M.; and Iler, Ralph K., to Du Pont de Nemours, E. I., and Company. Metal/carbide-oxide composite. 3,676,086, 7-11-72, Cl. 29-195.000.

Chay, Dong M.; Cumbo, Charles Carmen; Randolph, Michael J.; and Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Esters of pentavalent and trivalent antimony with a polyhydroxy compound and the process for making the same. 3,676,477, 7-11-72, Cl.260-446.000.

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Ueda, Haruo; Sugi, Masanao; and Chayamichi, Hiroshi, 3,677,492.

Chayes, Norman C., to Combustion Engineering, Inc. Sonic vibration baffles. 3,651,788, 3-28-72, Cl. 122-4.

Chazen, Julius L. Alligator shears. 3,645,159, 2-29-72, Cl. 83-599.

Cheary, Walter Graham, to Lucas, Joseph, (Industries) Limited. Printed circuits and method of making same. 3,681,135, 8-1-72, Cl. 117-212.000.

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Chebuhar, Charles J.: *See—*
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Chebuhar, Charles J.; and Buhle, Russell C., to Continental Can Company, Inc. Centrifugal adhesive applicator. 3,637,137, 1-25-72, Cl. 239-223.

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Check, Frank T., Jr., to Dynamics Corporation of America. Defrost control. 3,681,933, 8-8-72, Cl. 62-156.000.

Checkland, Peter Bernard: *See—*
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Cheek, Edward E., to McDowell-Wellman Engineering Company. Conveyor belt structure. 3,670,870, 6-20-72, Cl. 198-193.000.

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Cheema, Zafarullah K.; Apice, Pawquale J.; and Little, Edwin D., to Allied Chemical Corporation. Purification of phenol. 3,692,845, 9-19-72, Cl. 260-621.00a.

Cheer, Roy Anthony: *See—*
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Cheers, Robert J., to Tecumseh Products Company. Hermetic compressor oil cooling system. 3,663,127, 5-16-72, Cl. 417-372.

Cheers, Ronald M., to Euclid, Inc. Vehicle suspension. 3,671,057, 6-20-72, Cl. 280-124.00r.

Cheeseboro Products Corporation: *See—*
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Cheeseboro, Robert G., to Cheeseboro Products Corporation. Slot-loading portable record player. 3,658,347, 4-25-72, Cl. 274-9.

Cheeseman, Carl Anthony. Room temperature vulcanizable silicone rubber stocks. 3,686,357, 8-22-72, Cl. 260-825.000.

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Chegolin, Petr Mikhailovich; Rimsky, Gennady Vasilievich; Leonovich, Eduard Nikolaevich; Milner, Fridrikh Grigorievich; Samuilov, Nikolai Nikolaevich; and Anishkevich, Nikolai Nikolaevich. Device for reading multichannel oscillograms. 3,651,309, 3-21-72, C. 235-61.6.

Cheh, Ernest L.; Bowden, Wade R., Jr.; and Anderson, James D., to Burndy Corporation. Crimping machine. 3,661,029, 5-9-72, Cl. 72-419.

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Chekroun, Rene; and Ragot, Jean-Calude, to Burroughs Corporation. Binary entry apparatus for a calculating machine. 3,652,826, 3-28-72, Cl. 235-61.

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Chelini, Joseph M.: *See—*
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Chelminski, Stephen V., to Bolt Associates, Inc. Pile driver systems, apparatus and method for driving a pile. 3,646,598, 2-29-72, Cl. 61-53.5.

Chelminski, Stephen V., to Bolt Associates, Inc. Seismic energy waveshape control apparatus and method. 3,653,460, 4-4-72, Cl. 181-.5.

Chelminski, Stephen V., to Bolt Associates, Inc. Systems for high energy impulse working of materials, compaction, extruding, forging and the like. 3,657,917, 4-25-72, Cl. 72-453.

Chelminski, Stephen V., 12% to Parmelee, Kendall G. Rotary wing aircraft lift and propulsion method and systems. 3,699,771, 10-24-72, Cl. 60-39.350.

Chelnokov, Ivan Ivanovich; Garbuzov, Vladimir Mikhailovich; Koshelev, A. Vladimir; Levit, Georgy Mikhailovich; Maltsev, Albert Alexandrovich; and Myachev, Vladimir Fedorovich, to Leningradsky Institut Inzhenerov Zheleznoforpzhnogo Transporta Imeni Akademik N. V. Obraztsova Kalininsky Vagonostroitelny Zavod. Vibration damper for vehicles. 3,701,402, 10-31-72, Cl. 188-314.000.

Chelocci, Kenneth M.; and Thomas, Freddy E., to Paramedical Specialties. Tracheal instrument. 3,683,931, 8-15-72, Cl. 128-351.000.

Cheltsov, Vasily Mikhailovich; Kosarev, Sergei Petrovich; and Didrikh, Nina Voldemarovna. Apparatus for filtration of molten metals and alloys containing a solid phase. 3,661,373, 5-9-72, Cl. 266-34.

Chem-Farm Inc.: *See—*
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Chemerda, John M.; and Lumma, William C., to Merck & Co., Inc. Method preparing phosphonic acid derivatives. 3,658,668, 4-25-72, Cl. 204-158.

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Chierici, Osvaldo F., to Holland Company. Quick opening outlet assembly for hopper cars and sanitary seal therefor. 3,635,170, 1-18-72, Cl. 105-282.

Chierici, Osvaldo F., to Holland Company. Coupler positioning device for railroad car couplers. 3,642,149, 2-15-72, Cl. 213-15.

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Chiesa, Lugi, to Morena S.A. Automatic counter-actuated apparatus for taking and developing photographs. 3,693,522, 9-26-72, Cl. 95-14.000.

Chiffert, Alain, to Compagnie des Compteurs. Apparatus for detecting saturation periods of a transformer. 3,678,377, 7-18-72, Cl. 324-55.000.

Chigarev, Alexandr Grigorievich: *See—*
Krylov, Sergei Sergeevich; Starykh, Nadezhda Timofeevna; Chigarev, Alexandr Grigorievich; and Eltsov, Andrei Vasilievich, 3,639,609.

Chigira, Junji, to Kanto Seiki Kabushiki Kaisha. On-off controlled oil temperature adjusting apparatus with a protective device. 3,680,325, 8-1-72, Cl. 62-158.000.

Chigirinsky, Alexander Abramovich: *See—*
Karpman, David Bentsionovich; Boris, Volkovich; Konovalov, Spivak Leonidovich; Bednarchuk, Jury Vladimirovich; Chigirinsky, Alexander Abramovich; Ugrjumov, Leonid Vasilievich; Glider, Evgeny Khaimovich; and Gradov, Oleg Borisovich, 3,639,794.

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Chikatsu, Tatsusuke; Shimokawa, Shinichi; Yoshida, Yoshinori; Imamura, Masatugu; Nishiwaki, Ituo; Akimoto, Toshio; and Fujiwara, Tatuji, to Japan Synthetic Rubber Co., Ltd. Process for producing highly pure isoprene. 3,692,861, 9-19-72, Cl. 260-681.50r.

Chikirda, Sergei Ivanovich: *See—*
Kasatkin, Jury Ivanovich; Filimonov, Alexandr Vasilievich; Erlykov, Nikolai Sergeevich; Chikirda, Sergei Ivanovich; Strashinsky, Vadim Konstantinovich; and Zeldin, Vladimir Pinsokhovich, 3,681,833.

Chiku, Takewo, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Heating a sintered alumina article in atmosphere containing sodium or potassium ions. 3,655,845, 4-11-72, Cl. 264-82.

Chiku, Takewo, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Electrolyte circulating battery. 3,666,561, 5-30-72, Cl. 136-86.

Chiku, Takewo; Ninomiya, Kiyoshi; and Hayashi, Hiroaki, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Reheating a beta alumina article in an alkali metal atmosphere to improve its permeability. 3,707,589, 12-26-72, Cl. 264-82.000.

Chikuma, Toichi. High frequency amplification system. 3,701,035, 10-24-72, Cl. 330-31.000.

Chilcoat, Kermit E., to Eaton Corporation. Mounting means. 3,672,706, 6-27-72, Cl. 285-189.000.

Child, Cedric L.: *See—*
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Child, James L.: *See—*
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Childers, Billie W.: *See—*
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Childers, Clifford W., to Phillips Petroleum Company. Polystyrene compositions. 3,637,554, 1-25-72, Cl. 260-23.7.

Childers, Clifford W.; and Clark, Earl, to Phillips Petroleum Company. Blends of styrene/acrylonitrile copolymers with block copolymers containing lactones. 3,649,716, 3-14-72, Cl. 260-983.

Childers, Frank M. Jogging board. 3,634,895, 1-18-72, Cl. 5-345.

Childers, Spencer L.: *See—*

Black, Stewart L.; Childers, Spencer L.; and Bieri, Leonard, Jr., 3,683,790.
Childers, Thomas W.: *See—*
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Childers, Thomas W., to Esso Production Research Company. Underwater pollution control. 3,670,814, 6-20-72, Cl. 166-.500.
Childers, Thomas W.; Burkhardt, Joseph A.; and Koerner, Roger J., to Esso Production Research Company. Submerged hydraulic system. 3,677,001, 7-18-72, Cl. 60-51.000.
Children's Hospital of the District of Columbia: *See—*
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Childress, Clyde O. Method of molding utilizing thermosetting resin and magnetized filler material. 3,668,176, 6-6-72, Cl. 260-37.0ep.
Childress, Ezra E., to Stewart & Stevenson Services, Inc. Combination boat trim tab and heat exchanger. 3,650,310, 3-21-72, Cl. 165-44.
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Childs, Edwin E., Jr., to Dolomite Brick Corporation of America. Microwave method for tempering tar-bonded refractory bricks. 3,673,288, 6-27-72, Cl. 264-25.000.
Childs, Elbert B., to Mobil Oil Corporation. Analytical apparatus and method for smokes and gases. 3,653,773, 4-4-72, Cl. 356-207.
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Childs, Harry F. Filing cabinet. 3,643,807, 2-22-72, Cl. 211-10.
Childs, Mark Glendower Hyde, to Lever Brothers Company. Fork lift truck pallet. 3,659,534, 5-2-72, Cl. 108-56.
Childs, Rex E.: *See—*
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Childs, Robert S. Method and apparatus for packaging trees for transplanting. 3,662,490, 5-16-72, Cl. 47-1.
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Childs, William V., to Phillips Petroleum Company. Treated porous anode for electrochemical fluorination. 3,655,548, 4-11-72, Cl. 204-284.
Childs, William V., to Phillips Petroleum Company. Current-carrying sparger for introducing feed to porous electrode. 3,657,100, 4-18-72, Cl. 204-284.
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Chilman, John Alfred; and Wall, Richard James, to Dowty Rotol Limited. Ram-air turbines. 3,635,584, 1-18-72, Cl. 416-48.
Chilman, John Alfred; Loynes, Alfred Herbert Walter; and Spence, Peter, to Dowty Rotol Limited. Variable-pitch bladed motors. 3,637,323, 1-25-72, Cl. 416-139.
Chilman, John Alfred, to Dowty Rotol Limited. Engine installations. 3,638,421, 2-1-72, Cl. 60-39.31.
Chilman, John Alfred; and Brooking, Ivor Harold, to Dowty Rotol Limited. Bladed rotors. 3,647,320, 3-7-72, Cl. 416-157.
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Chin, Henry. Navigational calculator. 3,638,311, 2-1-72, Cl. 33-1.
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Chinai, Suresh N.; and Brigmanis, Edmund, to American Cyanamid Company. Process for shaping acrylonitrile polymers. 3,657,408, 4-18-72, Cl. 264-182.
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Chiola, Vincent; Kamin, George J.; and Vanderpool, Clarence D., to Sylvania Electric Products, Inc. Process for preparing rare earth normal tungstates. 3,653,813, 4-4-72, Cl. 23-15.

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Chirco, Peter R., to Huck Manufacturing Company. Fastener installation and crimping tool. 3,693,399, 9-26-72, Cl. 72-391.000.

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Chisholm, Raymond S., to PPG Industries, Inc. Method of tempering glass in a liquid. 3,701,266, 10-31-72, Cl. 65-116.000.

Chisholm, William A., to American Desk Manufacturing Company. Chair and seat and back unit therefor. 3,669,496, 6-13-72, Cl. 297-445.000.

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Chittenden, Richard Marion; Whitton, Alden William; Macalalad, Fidel Villaluna; Massman, Richard; and Wilson, Earl David, to Abbott Laboratories. Combined container and package particularly adapted for urinary drainage assemblies. 3,690,315, 9-12-72, Cl. 18-275.000.

Chittenden, Rudy M.; Deskevich, Stephen; Plummer, Norman R.; Rohrer, Gene D.; and Zaman, Louis F., III, to International Business Machines Corporation. Document sorting system. 3,645,392, 2-29-72, Cl. 209-74.

Chitty, Michael W., to Century Projector Corporation. Motion picture projector excess rotational speed detector. 3,647,157, 3-7-72, Cl. 242-191.

Chiu, Thomas T.; Hock, Kenneth R.; and Nagle, Floyd B., to Dow Chemical Company, The. Solvent resistant alkenyl aromatic resinous shaped article. 3,669,718, 6-13-72, Cl. 117-72.000.

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Chlystun, Walter K. Container with recloseable, collapsible pouring spout. 3,690,522, 9-12-72, Cl. 222-529.000.

Chmela, John F.; and Fohrman, Seymour F. Combination carrying handle and pour spout. 3,679,103, 7-25-72, Cl. 222-192.000.

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Christena, Ray C.; and Johnston, Earnest L., to Vulcan Materials Company. Aziridine salts of dibasic acids. 3,676,424, 7-11-72, Cl. 260-239.00e.

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Christensen, Burton G.; Beattie, Thomas R.; and Graham, Donald W., to Merck & Co., Inc. Carboxyepoxyethyl-1-phosphonic acid and derivatives. 3,657,282, 4-18-72, Cl. 260-348.

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Christenson, Roger M.; and Le Bras, Louis R., to PPG Industries, Inc. Controlling solids in electrodepositable compositions. 3,663,400, 5-16-72, Cl. 204-181.000.

Christenson, Roger M.; and Lebras, Louis R., to PPG Industries, Inc. Control of water-soluble acids in an electrodeposition bath. 3,663,401, 5-16-72, Cl. 204-181.000.

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Cintract, Bernard G.; and Sevin, Rene G., to Compagnie Francaise des Petroles. Tipping girder for the transfer of rods or tubular elements. 3,702,640, 11-14-72, Cl. 175-85.000.

Cintz, Adam. Enclosure for imprinter subject to weather elements. 3,645,594, 2-29-72, Cl. 312-100.

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Cirillo, John, to Kidde, Walter, & Company, Inc. Explosively operated gas supplying apparatus. 3,651,988, 3-28-72, Cl. 222-3.

Cirillo, John, to Kidde, Walter, & Company, Inc. Incision irrigator for use during surgical procedures. 3,674,024, 7-4-72, Cl. 128-234.000.

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Clark, Frank S., to Monsanto Company. Polyphenyl thioether lubricating compositions. 3,677,944, 7-18-72, Cl. 252-48.400.
Clark, Frank S., to Monsanto Company. Polyphenyl ether lubricating compositions. 3,704,277, 11-28-72, Cl. 252-54.600.
Clark, Frank S. Polyphenyl ether lubricating compositions. 3,706,668, 12-19-72, Cl. 252-49.900.
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Clark, Harold V.; and Garagnon, Gary B., to Ampex Corporation. Rapid frame synchronization of video tape reproduce signals. 3,643,012, 2-15-72, Cl. 178-6.6.
Clark, Harold V., to Ampex Corporation. Automatic phasing of servo systems. 3,651,276, 3-21-72, Cl. 179-100.2.
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Clark, James A., to Bausch & Lomb Incorporated. Apparatus for micropositioning an operational member and a workpiece platform. 3,704,846, 12-5-72, Cl. 248-125.000.
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Clark, James F. Lightweight readily portable underwater habitation and method of assembly and emplacement. 3,706,206, 12-19-72, Cl. 61-69.00r.
Clark, James M., to International Telephone and Telegraph Corporation. Frame synchronization system. 3,649,758, 3-14-72, Cl. 178-69.5.
Clark, James M., to International Telephone and Telegraph Corporation. Code communication frame synchronization system. 3,654,492, 4-4-72, Cl. 307-269.
Clark, James M., to International Telephone and Telegraph Corporation. Frame synchronization system. 3,662,114, 5-9-72, Cl. 179-15.
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Clark, James T., to Clark-Feather Manufacturing Co. Automotive valve spring compressing tools. 3,668,765, 6-13-72, Cl. 29-219.000.
Clark, Jasper: *See—*

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Clark, John A., Jr.; Morgan, Lemuel J.; and Kirschner, Robert F., to Patterson-Kelley Co., Inc., The. Water heater unit. 3,666,003, 5-30-72, Cl. 165-39.
Clark, John A., Jr.; Morgan, Lemuel J.; and Kirschner, Robert F., to Patterson-Kelley Co., Inc., The. Electric powered water heating system. 3,666,918, 5-30-72, Cl. 219-314.000.
Clark, John B. Aberration-free compensator for use in white light interferometry. 3,698,814, 10-17-72, Cl. 356-107.000.
Clark, John Colin; Cowley, Brian Richard; Gregory, Gordon Ian; Kennedy, James; and Long, Alan Gibson, to Glaxo Laboratories Limited. Cephalosporins having a 3-thioether group. 3,647,788, 3-7-72, Cl. 260-243.
Clark, John Colin; Kennedy, James; and Long, Alan Gibson, to Glaxo Laboratories Limited. Cephalosporius having a thioltherified methyl group in 3-position. 3,668,203, 6-6-72, Cl. 260-243.00c.
Clark, John E.; and Cusano, Michael Richard, to Standard Chemical Products, Inc. Preparation of finish composition for synthetic fibers. 3,649,535, 3-14-72, Cl. 252-8.75.
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Clark, John R.; and Bluestein, Claire, to Witco Chemical Corporation. Sulfone-ester compound. 3,654,323, 4-4-72, Cl. 260-400.
Clark, Joseph Edwin. Drilling and degasser. 3,676,984, 7-18-72, Cl. 55-193.000.
Clark, Kenneth D. Flight line continuation projection device for air navigation. 3,665,607, 5-30-72, Cl. 33-1.0sd.
Clark, Kenneth G.; Cook, Thomas J.; and De Pass, Ernest I., to Union Camp Corporation. Bag hanger. 3,688,471, 9-5-72, Cl. 53-188.000.
Clark, Kenneth William; and Hopton, Reginald Frank, to Rolls-Royce Limited. Trainer aircraft. 3,651,583, 3-28-72, Cl. 35-12.
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Clark, Martin Ronald Newton, to Vandervell Products Limited. Methods of cutting laminated strip material. 3,656,379, 4-18-72, Cl. 83-5.
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Clark, Melville, Jr.; and Luce, David A., to Melville Clark Associates. Signal processing utilizing basic functions. 3,697,703, 10-10-72, Cl. 179-1.0sa.
Clark, Merlin O., to Phillips Petroleum Company. Method for preventing the formation of hydrates and ice. 3,644,107, 2-22-72, Cl. 48-190.
Clark, Michael W., to Dow Chemical Company, The. Purification of benzoic acid. 3,705,193, 12-5-72, Cl. 260-525.000.
Clark, Norman E., to Garlock Inc. Unitary piston assembly including a body member serving both as a holder for sealing rings and as piston-bearing means. 3,636,824, 1-25-72, Cl. 92-249.
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Clark, Raymond C.; and Ziebell, Donn G., to Brunswick Corporation, mesne. Support for a fluidized bed. 3,679,271, 7-25-72, Cl. 302-45.000.
Clark, Raymond C., to Brunswick Corporation, mesne. Filter cores. 3,702,659, 11-14-72, Cl. 210-343.000.
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Clark, Richard C., to Union Oil Company of California. Wax coated polymeric articles. 3,692,568, 9-19-72, Cl. 117-138.8ua.
Clark, Richard J., Jr.; Veron, Harry; Gilmour, Alexander S., Jr.; and Lockwood, David L., to Cornell Aeronautical Laboratory, Inc. Magnetically modulated vacuum arc diode. 3,696,264, 10-3-72, Cl. 313-160.000.
Clark, Robert E., to Revco, Inc. Combination hinge and closing device for doors. 3,643,291, 2-22-72, Cl. 16-188.
Clark, Robert E., to Revco, Inc. Auxiliary refrigerating apparatus. 3,693,371, 9-26-72, Cl. 62-222.000.
Clark, Robert F., to General Electric Company. Smoke filter. 3,662,765, 5-16-72, Cl. 131-265.
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Clark, Robert H., to King-Seeley Thermos Co. Barbecue grill assembly. 3,664,322, 5-23-72, Cl. 126-25.
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Clark, Ronald D.; and Valus, Ronald J., to Standard Oil Company, The. Process for preparing organomercury compounds. 3,651,109, 3-21-72, Cl. 260-431.
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Clark, Stephen C., Jr., to Ingersoll Milling Machine Company, The. Method and apparatus for turning workpieces and utilizing programmed data. 3,653,161, 4-4-72, Cl. 51-165.
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Clark, Thomas F., to Allis-Chalmers Manufacturing Company. Circuit interrupter closing resistors. 3,674,959, 7-4-72, Cl. 200-144.0ap.
Clark, Thomas J.; and Brown, Howard W., to General Electric Company. Method of preparing curved pyrolytic graphite bodies having increased thickness to radius ratios. 3,647,511, 3-7-72, Cl. 117-46.
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Clark, Timothy M.; Shanfield, Henry; and Grunau, David L., to Polymetrics, Incorporated. Reverse osmosis water purifier. 3,679,055, 7-25-72, Cl. 210-110.000.
Clark, Trevor P.; and Trussell, Paul C., to British Columbia Research Council. Protective coating for metal and wood surfaces. 3,639,653, 2-1-72, Cl. 260-33.8.
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Clark, Willard F., to Dow Chemical Company, The. Cast explosive composition containing thiourea. 3,695,948, 10-3-72, Cl. 149-2.000.
Clark, Willard F., to Dow Chemical Company, The. Amino-aldehyde resin blasting composition containing gaseous voids. 3,695,950, 10-3-72, Cl. 149-19.000.
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Clarke, Gail H., Jr.; and Barnowski, Guilford Henry G., Jr., to Olin Corporation. Composition and method for stripping polyvinyl butyral primed coatings. 3,705,857, 12-12-72, Cl. 252-170.000.
Clarke, Gerard J.; and Rowley, Martin E., to Eastman Kodak Company. Adhesive compositions for water-wet cellulosic membranes. 3,645,938, 2-29-72, Cl. 260-17.
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Clarke, James A., to Dow Chemical Company, The. Preparation of oxazolidiones by reacting an isocyanate, or isothiocyanate with an epoxide in the presence of phosphosium halide, acid, ester, acid ester of the elements. 3,687,897, 8-29-72, Cl. 260-59.000.
Clarke, James F.; and Deprez, Thomas A., to Gleason Works, The. Method for grinding toothed faced members. 3,640,030, 2-8-72, Cl. 51-325.
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Clarke, Michael Raymond; and Filipowicz, Leon, to Balm Paints Limited. Cross-linkable derivatives of an addition polymer in a substantially non-polar organic liquid. 3,640,931, 2-8-72, Cl. 260-23.
Clarke, Michael Raymond; and Filipowicz, Leon, to Balm Paints Limited. Stable dispersions of cross-linked addition polymer and process of preparing said dispersions. 3,652,472, 3-28-72, Cl. 260-22.
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Clarke, Robert W. Multiple ply moire textile. 3,691,971, 9-19-72, Cl. 112-440.000.
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Clauss, Gerhard; and Herrmann, Helmut, to Schmidt'sche Heissdampf-GmbH. Heat exchanger, particularly for cooling fresh cracked and/or synthesis gases. 3,682,241, 8-8-72, Cl. 165-136.000.
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Clauss, Karl; and Lohaus, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of 3,4-dihydro-1, 2,3-oxathiazin-4-ones. 3,689,485, 9-5-72, Cl. 260-243.00r.
Clauss, Karl; and Jensen, Harald, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 3,4-Dihydro-1,2,3-oxaihiazin-4-ones and their preparation. 3,689,486, 9-5-72, Cl. 260-243.00r.
Clauss, Richard J., to Udylite Corporation, The. Process for acid copper plating of zinc. 3,664,933, 5-23-72, Cl. 204-38.00s.
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Clauss, Richard J.; Tremmel, Robert; and Becking, Donald H., to Oxy Metal Finishing Corporation, mesne. Method of making composite nickel electroplate and electrolytes therefor. 3,703,448, 11-21-72, Cl. 204-40.000.
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Clausse, Georges Jean Louis-Marie, to Hoover Company, The. Temperature responsive electric control device. 3,701,063, 10-24-72, Cl. 335-146.000.
Claussen, Robert P. Apparatus for alining asparagus spears. 3,670,792, 6-20-72, Cl. 146-81.00a.
Claussen, Uwe, to Bayerische Berg-Hutton-und Salzwerke AG. Roller bearing. 3,683,734, 8-15-72, Cl. 83-345.000.
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Clave, Serge; and Clave, Marcel. Compact optical system permitting an instantaneous increase in magnification without refocussing. 3,645,602, 2-29-72, Cl. 350-36.
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Clawson, Arthur R.; Davis, Neil M.; Wieder, Harry H.; and Collins, David A., to United States of America, Navy. Lamellar eutectic InSB SB films as infrared polarizers. 3,671,102, 6-20-72, Cl. 350-147.000.
Claxton, Gerald L.; and Horn, Darrell C., to Up-Right, Inc. Apparatus for harvesting fruit with an elliptically moving striker member. 3,667,201, 6-6-72, Cl. 56-330.
Claxton, William E., to Firestone Tire & Rubber Company, The. Composite curve analyzer. 3,668,380, 6-6-72, Cl. 235-197.000.
Clay, Benjamin Andrew; and Farr, Glyn Phillip Reginald, to Girling Limited. Vehicle brake constructions. 3,653,473, 4-4-72, Cl. 188-353.
Clay, Burton Ross, to RCA Corporation. Holographic multicolor technique. 3,695,744, 10-3-72, Cl. 350-3.500.
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Clay, John Armstrong, to Manchester Liners Limited. Slamming indicator system for marine devices. 3,671,954, 6-20-72, Cl. 340-240.000.
Clay, Robert A., to Kinetic Power, Inc. Pumping jack. 3,651,635, 3-28-72, Cl. 60-9.
Clay, Robert A., 5% to Wheeler, Max R. Pneumatic jack for motor vehicles. 3,695,582, 10-3-72, Cl. 254-93.0hp.
Clay, Robert A. Rotational molding apparatus. 3,704,084, 11-28-72, Cl. 425-404.000.
Clay, Robert B., to Intermountain Research and Engineering Company Inc. Method and apparatus for filling containers with explosive slurry. 3,646,844, 3-7-72, Cl. 86-20.
Clay, Robert B.; and Doering, William A., to Ireco Chemicals. Pump apparatus for slurry and other viscous liquids. 3,649,138, 3-14-72, Cl. 417-477.
Clay, Robert B.; Cook, Melvin A.; and Udy, Lex L., to Intermountain Research and Engineering Company, Inc. Blasting slurry compositions containing calcium nitrate and method of preparation. 3,660,181, 5-2-72, Cl. 149-2.
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Clayton, David Henry; and Karkalas, John. Wort production. 3,679,431, 7-25-72, Cl. 99-52.000.
Clayton, David W.; and Sakai, Asahi, to Pulp and Paper Research Institute of Canada. Production of pulp by a multi-stage ammonium polysulphide pulping process. 3,661,698, 5-9-72, Cl. 162-19.
Clayton, David W.; and Sakai, Asahi, to Pulp and Paper Research Institute of Canada. Vapor phase pulping of water saturated lignocellulosic materials. 3,664,918, 5-23-72, Cl. 162-19.000.
Clayton, David W.; and Sakai, Asahi, to Pulp and Paper Research Institute of Canada. Vapor phase polysulphide liquid pulping of lignocellulosic materials. 3,664,919, 5-23-72, Cl. 162-19.000.
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Clayton, Hadwen A., to Phillips Petroleum Company. Controlling pressure in fluid transfer conduits. 3,690,115, 9-12-72, Cl. 62-49.000.
Clayton, John B., III, to American Standard, Inc. Freeze protection for outdoor cooler. 3,654,988, 4-11-72, Cl. 165-17.
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Clayton, William J.; and Keyser, Charles D., to Mobil Oil Corporation. Highly permeable thermoplastic film perforating. 3,682,028, 8-8-72, Cl. 83-30.000.
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Cleary, Alan. Touch detecting teaching machine. 3,696,525, 10-10-72, Cl. 35-9.00b.
Cleary, James W., to Phillips Petroleum Company. Polyolefin-polyetherester alloy. 3,642,945, 2-15-72, Cl. 260-873.
Cleary, James W., to Phillips Petroleum Company. Terpolymer of terephthalic acid, and/or its alkyl esters, 1,4-bis(2-hydroxyethoxy) benzene and pentaerythritol useful as a dye receptor additive for polyolefin, e.g., polypropylene. 3,652,719, 3-28-72, Cl. 26-873.
Cleary, James W., to Phillips Petroleum Company. Cyclohexylene polyester dye receptors. 3,665,056, 5-23-72, Cl. 260-873.
Cleary, John P.; and Abraham, Schulkin, to International Pollution Controls Corporation. Automatic refuse compaction system. 3,695,172, 10-3-72, Cl. 100-45.000.
Cleary, Robert A.; and Mort, Paul R., Jr., to Syncro-Motion Corporation. Labelling machine for pressure sensitive labels. 3,682,743, 8-8-72, Cl. 156-384.000.
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Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, to British Insulated Callender's Cables Limited. Method of jointing and terminating electric cables. 3,688,397, 9-5-72, Cl. 29-62.00b.
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Clecak, Nicholas J.; Cox, Robert J.; and Moreau, Wayne M., to International Business Machines Corporation. High speed azide resists. 3,695,886, 10-3-72, Cl. 96-91.00n.
Clecak, Nicholas J.; and Cox, Robert J., to International Business Machines Corporation. Conjugated nitro amines. 3,697,595, 10-10-72, Cl. 260-566.00r.
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Clegg, John Martin; Swidinsky, John; and Brown, Bernard Beau, to CPC International Inc. Chrysanthemum acid esters of 1-substituted pyrrolidinols. 3,644,396, 2-22-72, Cl. 260-326.3.
Clegg, Robert J., to United States of America, Navy. Method for optically detecting lightning radiation. 3,700,336, 10-24-72, Cl. 356-226.000.
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Clemence, Francois; and Le Martret, Odile, to Roussel-UCLAF. Benzimidazole derivatives of benzoic acid and its esters and amides. 3,644,382, 2-22-72, Cl. 260-295.
Clemence, Francois; and Le Martret, Odile, to Roussel-UCLAF. 2-Hydroxy-3-methoxy-5-allyl benzamides. 3,668,238, 6-6-72, Cl. 260-488.000.
Clemence, Francois; and Le Martret, Odile, to Roussel-UCLAF. Certain thiazole-5-carboxylates. 3,700,677, 10-24-72, Cl. 260-294.80d.
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Clement, Morris. Sugarcane planting machine. 3,702,664, 11-14-72, Cl. 221-185.000.
Clement, Rene; Manfredi, Pierre; and Roulliay, Roger. Flexible welding rod having organically bound core and protective sheath. 3,701,444, 10-31-72, Cl. 214-146.000.
Clement, Robert A., to Du Pont de Nemours, E. I., and Company. Alpha, beta-unsaturated oxime complexes of nickel nitrosyl halides and their preparation. 3,652,620, 3-28-72, Cl. 260-439.
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Clements, Ralph E., to Barber-Colman Company. Burst length proportioning controller. 3,633,094, 1-4-72, Cl. 323-18.
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Clifford, Daniel. Audio-visual concentration drill and puzzle process. 3,670,472, 6-20-72, Cl. 35-8.
Clifford, Dennis A.: *See—*
Teal, James L.; Hamilton, Charles Eugene; and Clifford, Dennis A., 3,679,364.
Clifford, George F., Jr.; and Woodward, Robert C., to Clifford Instruments, Inc. Densitometer having an analog computer for calculating a fraction of the total area under a curve. 3,706,877, 12-19-72, Cl. 235-151.350.
Clifford, Gloria L.; and Clifford, Richard P. Ski binding tester. 3,662,594, 5-16-72, Cl. 73-133.000.
Clifford Instruments, Inc.: *See—*
Clifford, George F., Jr.; and Woodward, Robert C., 3,706,877.
Clifford, Joseph: *See—*
Tabares, Gilbert; and Clifford, Joseph, 3,655,932.
Clifford, Joseph M. Air deflector attachment. 3,665,969, 5-30-72, Cl. 138-178.000.
Clifford, Richard P.: *See—*
Clifford, Gloria L.; and Clifford, Richard P., 3,662,594.
Clifford, Thomas J.; and Nelson, Robert C., to Hazeltine Corporation. Wire guide assembly for multiple coil winding machine. 3,675,860, 7-11-72, Cl. 242-7.110.
Clift, Charles E.; and Evans, David G., to Sperry Rand Corporation. Magnetic wheel with rotor position sensor. 3,636,550, 1-18-72, Cl. 340-319.
Clift, Charles E., to Sperry Rand Corporation. Permanent magnet detent means for a rotary solenoid. 3,671,899, 6-20-72, Cl. 335-253.000.
Clifton, Edward A.; and Carrandi, Artemio P., to Dayco Corporation. Coating roller and method of manufacture. 3,668,752, 6-13-72, Cl. 29-124.000.
Clifton, John Stephen; and Parker, Dawood, to National Research Development Corporation. Apparatus for measuring the concentration of dissolved oxygen in an aqueous solution. 3,700,578, 10-24-72, Cl. 204-195.00p.
Clifton, John Stephen; and Parker, Dawood, to National Research Development Corporation. Apparatus for measuring the concentration of dissolved oxygen in an aqueous solution. 3,700,579, 10-24-72, Cl. 204-195.00p.
Clifton, Marion A.: *See—*
Smith, Joshua D.; and Clifton, Marion A., 3,663,438.
Cliftronics, Inc.: *See—*
Ganowsky, Raymond J., 3,671,898.
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Ganowsky, Raymond J., 3,693,124.
Climate Conditioning Corporation: *See—*
Mc Kay, Edwin C., 3,651,197.
Cline, Charles D.: *See—*
Linderman, Roger C.; and Cline, Charles D., 3,640,823.
Cline, Charles W., to N L Industries, Inc. Titanium dioxide pigment having improved dispersibility in coating compositions. 3,647,195, 3-7-72, Cl. 106-300.
Cline, Edwin L., to Clayton Manufacturing Company. Apparatus for controlling the characteristics of fluid pressure operated friction type power absorption devices. 3,698,243, 10-17-72, Cl. 73-135.000.
Cline, Harvey E.: *See—*
Walter, John L.; Cline, Harvey E.; and Cobine, James D., 3,655,368.
Cline, Ted L. Tilling apparatus. 3,692,120, 9-19-72, Cl. 172-151.000.
Cline, Thomas A. High pressure and low pressure warning system for automotive radiators and the like. 3,634,881, 1-11-72, Cl. 340-60.
Clinebell, Lyle R.: *See—*
Spencer, Blaine G.; and Clinebell, Lyle R., 3,699,625.
Clinebell, Virgil L. Expandable ice form. 3,684,234, 8-15-72, Cl. 249-112.000.
Clinehens, Richard M.; Stewart, John K., Jr.; and Ditmer, Robert W., to National Cash Register Company, The. Method of forming electrical conductors. 3,674,579, 7-4-72, Cl. 156-5.000.
Clingenpeel, William R.; Cain, Charles L.; Hungerford, Philip C., Jr.; and Hayes, Robert R., to ESB Incorporated, mesne. Machine for casting battery intercell connectors. 3,674,085, 7-4-72, Cl. 164-333.000.
Clingman, William H., Jr.: *See—*
Stroup, Ralph F.; Clingman, William H., Jr.; and Post, Robert C., 3,684,585.
Clinica si Policlinica de Stomotologie Ortopedica: *See—*
Costa, Eugen; Covaci, Ioan; and Surca, Gheorghe, 3,636,632.
Clinkenbeard, Donald E., to Dayco Corporation. Endless power transmission belt testing means. 3,698,242, 10-17-72, Cl. 73-94.000.
Clinkenbeard, James D., to United States of America, Navy. Messenger buoy recovery device. 3,667,417, 6-6-72, Cl. 114-51.000.
Clinton, Harry M.: *See—*
Edmiston, James R.; and Clinton, Harry M., 3,689,408.
Clinton, Harry M., to Swimrite, Inc. Automatic by-pass flow control. 3,684,169, 8-15-72, Cl. 236-20.000.
Clinton Industries, Inc.: *See—*
Pirrello, Angelo, 3,675,602.
Clinton, John Rodney. Heating apparatus for vaporizing propane fuel and the like. 3,645,664, 2-29-72, Cl. 431-209.
Clinton, Raymond O., to Sterling Drug Inc. 2-(1-Hydroxyalkyliden)-3-oxo steroids. 3,676,426, 7-11-72, Cl. 260-239.55r.
Clinton, Raymond O., to Sterling Drug Inc. Steroido[3,2-c]pyrazoles and preparation thereof. 3,704,295, 11-28-72, Cl. 260-239.5.
Clinton Supply Co.: *See—*
Alinder, Gilbert L., 3,639,704.
Clinton, William P.: *See—*
Parliment, Thomas H.; Clinton, William P.; Scarpellino, Richard; Soukup, Robert J.; and Epstein, Martin F., 3,655,397.
Clippingdale, John Walter; and Watson, Charles Andrew, to Lever Brothers Company. Toothpastes comprising stabilized milled alpha-alumina trihydrate. 3,662,060, 5-9-72, Cl. 424-57.
Clippingdale, John Walter; and Watson, Charles Andrew, to Lever Brothers Company. Toothpastes. 3,678,155, 7-18-72, Cl. 424-52.000.
Clipsham, Ian Sweet: *See—*
Meyer, Dolph Allan; Phelps, Ross Leslie; Seidel, David Paul; Dykes, Edward Henry; Clipsham, Ian Sweet; Gray, Donald; and Ractivand, Theodore Demetrius, 3,636,686.
Meyer, Dolph Allan; Phelps, Ross Leslie; Sykes, Edward Henry; Clipsham, Ian Sweet; Seidel, David Paul; Gray, Donald; and Ractivand, Theodore Demetrius, 3,694,855.
Clish, Clyde A.: *See—*
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Clishem, Thomas A.; Duerr, Francis R.; and Olympia, Frederick D., to Corhart Refractories Company. Electric melting furnace and process of using it. 3,703,391, 11-21-72, Cl. 106-57.000.
Clivite Corporation: *See—*
Zoltan, Steven I., 3,683,212.
Clock, Gerald E.; Mildner, Raymond C.; and Walters, Harold A., to Dow Chemical Company, The. Method of fabricating cables. 3,687,748, 8-29-72, Cl. 156-56.000.
Clocker, Edwin T., to Ashland Oil, Inc. Process suitable for preparing homogeneous emulsions. 3,679,182, 7-25-72, Cl. 259-9.000.
Clopton, William H.: *See—*
Hynes, Donald P.; and Clopton, William H., 3,633,164.
Clorid Company: *See—*
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Clorox Company, The: *See—*
Maddox, Lodric L., 3,697,217.
Summerfelt, Vernon E., 3,697,431.
Closa, Jose, to Super Caster Corporation. Tilted roller caster. 3,641,621, 2-15-72, Cl. 16-45.
Closa, Jose, to Super Caster Corporation. Tilted roller caster. 3,675,269, 7-11-72, Cl. 16-18.00a.
Close, Arthur L., Jr. Barbecue grill. 3,696,800, 10-10-72, Cl. 126-25.00a.
Close, Edward S. Coffee brewer. 3,657,993, 4-25-72, Cl. 99-297.000.
Close, James G.: *See—*
Spalding, Donald P.; and Close, James G., 3,668,680.
Close, Kenneth S.; Harm, Alson R.; and Hood, Charles R., to Procter & Gamble Company, The. Machine and method for packaging a plurality of cylindrical articles. 3,631,649, 1-4-72, Cl. 53-3.
Close, Sam. Filter assembly and disposable filter element therefor. 3,684,100, 8-15-72, Cl. 210-444.000.
Closmann, Philip Joseph, to Shell Oil Company. Fracturing to interconnect wells. 3,682,246, 8-8-72, Cl. 166-271.000.
Closner, John J.; Schupack, Morris; and Marlowe, Eugene W., to Preload Company, Inc. Pressurized storage tank. 3,633,328, 1-11-72, Cl. 52-224.
Closs, Bradley P.: *See—*
Riekers, Henty G.; and Closs, Bradley P., 3,657,561.
Closs, Felix H.; Seitzer, Dieter; and Stucki, Peter, to International Business Machines Corporation. Video multiplexing system. 3,647,949, 3-7-72, Cl. 178-5.6.

Closs, Felix H., to International Business Machines Corporation. Multiplexer. 3,647,977, 3-7-72, Cl. 179-15.
Closse, Annemarie; and Harri, Eugen, to Sandoz Ltd., a/k/a Sandoz AG. Antibiotic SL3364. 3,697,650, 10-10-72, Cl. 424-122.000.
Clot, Jean: *See—*
Falvert, Daniel; Giralt, Georges; Clot, Jean; and Authie, Gerard, 3,686,492.
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Benner, Harold Thomas Jr.; and Cloud, Charles E., 3,667,188.
Cloud, Charles E., to Cloud Machine Corporation. Method of cutting articles from a strip. 3,683,729, 8-15-72, Cl. 83-24.000.
Cloud, Fayette J., Jr., to Bonsal, W. R., Company. Apparatus for proportioning dry particulate materials. 3,661,365, 5-9-72, Cl. 259-154.
Cloud, Larry L.: *See—*
Kelly, Vincent J.; Smalligan, Wayne J.; and Cloud, Larry L., 3,690,894.
Cloud Machine Corporation: *See—*
Benner, Harold Thomas Jr.; and Cloud, Charles E., 3,667,188.
Cloud, Charles E., 3,683,729.
Cloud, Robert A.: *See—*
Langley, Thomas W.; and Cloud, Robert A., 3,636,986.
Cloud, William S., Jr. Tube-forming packaging machine. 3,640,051, 2-8-72, Cl. 53-178.
Clouet, Andre: *See—*
Combe, Christian; Clouet, Andre; Marchal, Michel; Villard, Michel; and Grenier, Pierre, 3,658,680.
Clough, Philip J.; and Eisner, Steve, to Norton Company. Low temperature vapor deposits of thick film coatings. 3,632,406, 1-4-72, Cl. 117-107.1.
Clough, Philip J.; and Keough, Allen H., to King-Seeley Thermos Co., mesne. Machine-washable metallized fibrous article and method of making same. 3,646,749, 3-7-72, Cl. 57-153.
Clough, Philip J.; and Steeves, Robert W., to King-Seeley Thermos Co., mesne. Insulating material. 3,707,433, 12-26-72, Cl. 161-143.000.
Clough, Roy L., Jr.: *See—*
Snow, John F.; and Clough, Roy L., Jr., 3,664,647.
Clough, Thomas J., to Sinclair Research, Inc. Condensation product of oil-soluble polymers with polyamine. 3,647,731, 3-7-72, Cl. 260-23.7.
Clough, Thomas J., to Atlantic Richfield Company. Lubricating oil composition containing a phosphonamide. 3,650,953, 3-21-72, Cl. 252-49.9.
Cloup, Jean. Control means for fluid-operated drive members. 3,635,575, 1-18-72, Cl. 415-1.
Cloup, Jean. Punching machine-tools. 3,704,644, 12-5-72, Cl. 83-639.000.
Clouse, Jerry A.: *See—*
Little, Joseph P.; and Clouse, Jerry A., 3,669,576.
Cloutier, Emeric. Endless fishing cable installation. 3,672,091, 6-27-72, Cl. 43-27.400.
Cloutier, Roy L. Picture device and method of making pictures utilizing the same. 3,692,382, 9-19-72, Cl. 350-5.000.
Clover Industries, Inc.: *See—*
Simonelli, Le Roy S.; Randolph, Leonard B.; and Damico, Sam, 3,651,965.
Clover, John R. Depth control skid for land working machine. 3,684,029, 8-15-72, Cl. 172-239.000.
Clover, Richmond Bennett, Jr., to RCA Corporation. Bubble domain sonic propagation device. 3,673,582, 6-27-72, Cl. 340-174.0ms.
Clovis, James S.: *See—*
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Clow Corporation: *See—*
Bevington, William J., 3,698,744.
Clow, William L.; Benzing, Robert J.; and McConnell, Bobby D., to United States of America, Air Force. Air drying silicone resin bonded dry film lubricant. 3,674,690, 7-4-72, Cl. 252-25.000.
Cloyd, Harold S., to Nosco Plastics, Incorporated. Two component syringe. 3,659,602, 5-2-72, Cl. 128-220.
Cloyd, Harold S., to Nosco Plastics Incorporated. Pallet. 3,691,965, 9-19-72, Cl. 108-58.000.
Clua, Jorge Borguno: *See—*
Bosch, Juan Casso; and Clua, Jorge Borguno, 3,688,053.
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Cluett, Peabody & Co., Inc.: *See—*
Brown, Fred A., III; and Le Mere, Roger, 3,697,354.
Fischer, George, 3,694,870.
McFalls, Richard J., 3,664,283.
Morton, Kenneth O., 3,661,384.
Wagar, Albert E., 3,664,282.
Cluett, Peabody & Co., Inc., mesne: *See—*
Pandell, Nestor W.; and Temin, Samuel C., 3,632,296.
Cluett, Ronald D., to GTE Laboratories Incorporated. Arc discharge lamp control circuit. 3,700,956, 10-24-72, Cl. 315-101.000.
Clumpner, Jon Michael. Cationic emulsifier system. 3,658,718, 4-25-72, Cl. 252-357.
Clune, Richard R.; and Kaye, Gordon E., to Mallory, P. R., & Co., Inc. Battery packaging device. 3,660,169, 5-2-72, Cl. 136-111.
Clurman, Morton P.; and Emerson, Jerry M. Floor cleaning device. 3,641,612, 2-15-72, Cl. 15-231.
Clusener, Gerhard R. Dilatometer. 3,680,357, 8-1-72, Cl. 73-16.000.
Cluwen, Johannes Meyer, to U.S. Philips Corporation. Wave transmission time device. 3,654,575, 4-4-72, Cl. 333-30.
Cluzel, Jean; and Souviron, Paul, to Azote et Produits Chimiques S.A. Process for the production of non-caking urea. 3,661,985, 5-9-72, Cl. 260-555.
Clyde Corporation: *See—*
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Clyde Machines, Inc.: *See—*
Olson, Clyde W., 3,684,108.
Clymer, Frederick H., Jr.: *See—*
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Clynch, Frank: *See—*
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Clynch, Frank, to Dresser Industries, Inc., mesne. Land vehicle releasably carrying a geophysical exploration tool. 3,658,148, 4-25-72, Cl. 181-.5.
Clynes, Manfred E. Programmed system for evoking emotional responses. 3,691,652, 9-19-72, Cl. 35-22.00r.
CMD Electronics, Inc.: *See—*
King, Ray J., 3,707,661.
CMI Corporation: *See—*
Brock, James Donald, 3,693,945.
Meli, Joseph, 3,650,521.
Mize, Erbie G.; and Brock, James D., 3,638,911.
Snow, Ralph K., 3,637,026.
Swisher, George W., Jr.; Smith, Don W.; and Snow, Ralph K., Jr., 3,637,036.
C.N.M.P. Berthiez: *See—*
Chabrier, Martial, 3,695,127.
Neuman, Marcel, 3,656,860.
Co-Polymer Chemicals, Inc.: *See—*
Pewtress, Vernon J., 3,642,203.
Coach and Car Equipment Corporation: *See—*
Bilancia, Raymond A., 3,642,322.
Harder, Arthur J., Jr.; and Bilancia, Raymond A., 3,638,897.
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Coachmen Industries, Inc.: *See—*
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Coackley, Robert; Reynolds, Michael Leslie; and Rodgers, Clive Douglas, to National Research Development Corporation. Infrared radiometer apparatus for detecting clear air turbulence from an aircraft. 3,641,345, 2-8-72, Cl. 250-83.3.
Coad, George: *See—*
Cassady, John; and Coad, George, 3,690,670.
Coaker, Antony W. M.; and Gross, Richard C., to Monsanto Company. Lubricated thermoplastic resin compositions. 3,666,510, 5-30-72, Cl. 106-181.
Coakes, William Arthur, to Simplicity Engineering Co. Stationary article turnover device. 3,666,066, 5-30-72, Cl. 193-43.00b.
Coakley, James L., to Abex Corporation. Method and apparatus for improved jet pipe valve. 3,678,951, 7-25-72, Cl. 137-14.000.
Coakley, James L., to Abex Corporation. Reversible fluid power transfer apparatus. 3,691,767, 9-19-72, Cl. 60-53.00r.
Coal Industry (Patents) Limited: *See—*
Agnew, James Malcolm, 3,700,284.
Granger, Anthony F., 3,663,171.
Hoult, Raymond Oliver, 3,706,416.
McLaren, James; and Harris, Walter, 3,636,896.
Oven, Terence; and Boast, Gordon Ernerst, 3,658,385.
Trolley, John Henry, 3,703,315.
Coal Tar Research Association, The: *See—*
Sharp, John Alan; and Dean, Raymond Ernest, 3,642,912.
Coale, Harold D. Poly(arylene sulfide) smoking element. 3,695,276, 10-3-72, Cl. 131-191.000.
Coaley, Albert E., to SKF Industries, Inc. Self-aligning clutch release bearing. 3,631,954, 1-4-72, Cl. 192-98.
Coalson, Richard Leslie; and Grot, Walther Gustav, to Du Pont de Nemours, E. I., and Company. Method for increasing the liquid absorptive capacity of linear fluorocarbon sulfonic acid polymer. 3,684,747, 8-15-72, Cl. 260-2.50r.
Coanda, Henri; and Teodorescu, Constantin, to Institutul Pentru Creatie Stiintifica si Tehnica. Method and device for attenuating the noise generated by the expansion of gases into the atmosphere. 3,685,614, 8-22-72, Cl. 181-33.00e.
Coars Porcelain Company: *See—*
Spurck, Richard F., 3,700,788.
Coast Catamaran Corporation: *See—*
Alter, Hobart L., 3,678,876.
Coast, Geoffrey; and Morgan, Vernon, to United Kingdom Atomic Energy Authority. Gas cooled nuclear reactor installation. 3,656,566, 4-18-72, Cl. 176-59.
Coast, John B.: *See—*
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Coast, John B., to Coast Machinery, Inc. Machine and method for folding plastic bags and the like. 3,671,033, 6-20-72, Cl. 270-83.000.

Coast Machinery, Inc.: *See—*
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Coast Marine & Industrial Supply Inc.: *See—*
Haglund, Bernard F.; and Salvarezza, Robert M., 3,675,257.
Coast Metals, Inc.: *See—*
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Cape, Arthur T., 3,674,979.
Coastal Zone Resources Corporation of N.C.: *See—*
Adams, David A., 3,685,490.
Coates, Clarence A., Jr.: *See—*
Fisher, John G.; and Coates, Clarence A., Jr., 3,634,391.
Weaver, Max A.; Straley, James M.; and Coates, Clarence A., Jr., 3,635,941.
Weaver, Max A.; Pridgen, Herman S.; and Coates, Clarence A., Jr., 3,640,995.
Weaver, Max A.; Pridgen, Herman S.; and Coates, Clarence A., Jr., 3,660,374.
Coates, Harold Jefferson, to Reynolds Metals Company. Use of cationic permselective membranes in anodizing. 3,634,213, 1-11-72, Cl. 204-56.
Coates, John Stuart, to Du Pont de Nemours, E. I., and Company. Regeneration of nickel-aluminum catalysts by polycarboxylic acid washing. 3,676,364, 7-11-72, Cl. 252-413.000.
Coates, John Stuart, to Du Pont de Nemours, E. I., and Company. Cellulosic esters of two organic acids blended with a copolymer of ethylene and at least one ethylenically unsaturated ester of a saturated fatty acid. 3,682,850, 8-8-72, Cl. 260-17.00r.
Coates, Leroy, to Willy Whoper, Inc. Rebounding tethered ball. 3,643,948, 2-22-72, Cl. 273-97.
Coates, Robert N. Self-propelled irrigation sprinkling system. 3,653,400, 4-4-72, Cl. 137-344.
Coates, Vincent J.; and Welter, Leonard M., to American Optical Corporation. Field emission electron gun utilizing means for protecting the field emission tip from high voltage discharges. 3,678,333, 7-18-72, Cl. 315-31.000.
Coates, William M.: *See—*
Corrigan, John R.; and Coates, William M., 3,641,058.
Coathylene S.A.: *See—*
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Coatings Engineering Corporation: *See—*
Knott, James M., 3,707,033.
Coaton, James Richard; and Rees, John Michael, to Thorn Lighting Limited. Hydrogen-halogen, filament lamp with a hydrogen getter flag. 3,644,773, 2-22-72, Cl. 313-174.
Coats Company, Inc., The: *See—*
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Sorenson, Billy L.; and Scott, Ray A., 3,669,175.
Sorenson, Billy L.; and Strang, Elmer J., 3,685,565.
Coats, David E., to Western Piping & Engineering Co., Inc. Exhaust pipe ball connector. 3,652,108, 3-28-72, Cl. 285-165.
Coats, Jesse C. Combination lumber stacker, sticker placer and unloader. 3,703,965, 11-28-72, Cl. 214-6.00m.
Coats, John C.; and Wilson, George W., III, to Republic National Bank of Dallas Irving Trust Company and Union Bank. Variable setpoint proportional control apparatus for vacuum bakeout systems. 3,674,984, 7-4-72, Cl. 219-496.000.
Coats, John H.: *See—*
Argoudelis, Alexander D.; Coats, John H.; and Reusser, Fritz, 3,639,581.
Argoudelis, Alexander D.; and Coats, John H., 3,641,244.
Argoudelis, Alexander D.; and Coats, John H., 3,671,647.
Argoudelis, Alexander D.; Coats, John H.; and Pyke, Thomas R., 3,697,380.
Bergy, Malcolm E.; Coats, John H.; and Reusser, Fritz, 3,689,639.
Coats, John H.; Herr, Milton E.; and Herr, Ross R., to Upjohn Company, The. Antibiotic sphaeropsidin. 3,701,790, 10-31-72, Cl. 260-348.00c.
Coats, Robert Reid; and Greenway, John Michael, to Imperial Chemical Industries Limited. Heat treatment of yarns. 3,704,493, 12-5-72, Cl. 28-1.200.
Coats, William M. Horseshoe fastener. 3,670,619, 6-20-72, Cl. 85-9.000.
Coaxial Scientific Corporation: *See—*
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Cobarg, Claus Christian: *See—*
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Rams, Dieter; and Cobarg, Claus Christian, 3,645,087.
Cobb, Alvin A. Marine hull. 3,662,701, 5-16-72, Cl. 114-68.
Cobb, Harold W., to Dennison Manufacturing Company. Heated corona charging unit. 3,665,181, 5-23-72, Cl. 250-49.57.
Cobb, James W.: *See—*
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Cobb, Raymond I., to Phillips Petroleum Company. 2-Halo-alkylene- and -cyclopentylene-2-aminopropane 1,3-diols. 3,660,488, 5-2-72, Cl. 260-584.
Cobb, Raymond L., to Phillips Petroleum Company. Production of esters by catalytic conversion of α-organooxy hydroperoxides. 3,641,075, 2-8-72, Cl. 260-410.
Cobb, Raymond L.; and Pearson, David P., to Phillips Petroleum Company. Electrolyte reduction of ozonolysis products. 3,658,667, 4-25-72, Cl. 204-73.
Cobb, Raymond L., to Phillips Petroleum Company. Benzyloxy compounds. 3,658,915, 4-25-72, Cl. 260-611.
Cobb, Richard O.; and Lipp, James, to International Business Machines Corporation. Optical information recording with real time display and error correction. 3,633,183, 1-4-72, Cl. 340-173.
Cobb, William R., to Westinghouse Electric Corporation. Latch mechanism for refrigerators freezers and the like. 3,678,716, 7-25-72, Cl. 70-92.000.
Cobbeldick, Charles R.: *See—*
Langan, John P.; and Cobbeldick, Charles R., 3,696,222.
Cobble, James T., to B & J Machinery Co., Inc. Yarn beam rack. 3,697,013, 10-10-72, Cl. 242-129.800.
Cobbledick, David S., to General Tire & Rubber Company, The. Preparation of vinyl-coated polyurethane foams. 3,691,265, 9-12-72, Cl. 264-45.000.
Cobbledick, David Stanley, to Allied Chemical Corporation. Preparation of non-cellular polyurethane compositions. 3,658,762, 4-25-72, Cl. 260-77.5.
Cobbs, James H., to Fenix & Scisson, Inc. Apparatus for drilling a small borehole downwardly from the bottom of a large borehole. 3,635,295, 1-18-72, Cl. 175-257.
Cobbs, James H. Multi-element packer. 3,659,648, 5-2-72, Cl. 166-120.
Cobelo, Vincent, Jr., to ABC Packaging Machine Corporation. Tray former. 3,635,129, 1-18-72, Cl. 93-51.
Cober Fabbrica Articoli Sportivi: *See—*
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Coberley, Daniel A.: *See—*
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Cobey, Herbert T. Compost and refuse shredding and shifting apparatus. 3,664,645, 5-23-72, Cl. 259-183.
Cobine, James D.: *See—*
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Cobly, Herbert T., to Imco, Inc. Machine for treating refuse. 3,662,962, 5-16-72, Cl. 241-101.00m.
Coburn, John F.; and Metro, Stephen J. Anthranilic acid esters as lubricant additives. 3,642,632, 2-15-72, Cl. 252-51.5.
Coburn Manufacturing Co.: *See—*
Sarofeen, George M. J., 3,704,558.
Coburn, Michael D., to United States of America, Atomic Energy Commission. 2,6-Bis(picrylamino)-3,5-dinitropyridine and a method for its preparation. 3,678,061, 7-18-72, Cl. 260-296.00r.
Coburn, Theodore R., to Bevis Industries, Inc. Method of treating tubular knitted fabrics. 3,707,419, 12-26-72, Cl. 156-250.000.
Coburn, William K.; and Hillger, Richard E., to United States of America, Navy, mesne. Transmission sytem. 3,649,735, 3-14-72, Cl. 35-10.4.
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Cocca, Frank J., to Sylvania Electric Products, Inc. Method of dividing wafers. 3,699,644, 10-24-72, Cl. 29-527.200.
Cocca, Theodore F., to Spacetac Incorporated. Co-firing process for making a resistor. 3,699,650, 10-24-72, Cl. 29-620.000.
Coccagna, Daniel T.; and Eldamati, Salah Eldin A. Pallet. 3,677,200, 7-18-72, Cl. 108-58.000.
Coccagna, Edmund G., to Mohawk Data Sciences Corporation. Phase-detecting circuit. 3,646,455, 2-29-72, Cl. 328-133.
Coccio, Ernest F.: *See—*
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C.O.C.E.I. SA: *See—*
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Coch, Lester, to Waldes Kohinoor, Inc. System for wet impact plating. 3,690,935, 9-12-72, Cl. 117-109.000.
Cochin, J. D., Manufacturing Company: *See—*
Petry, John G., 3,635,794.
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Cochran, Burton L., to Warner & Swasey Company, The. Cutoff or grooving tool and holder therefor. 3,686,729, 8-29-72, Cl. 29-96.000.
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Cochran, Chudleigh B.; and Manderscheid, Phillip H., to Brown Oil Tools, Inc. Well packer. 3,658,127, 4-25-72, Cl. 166-120.
Cochran, David L.; Deleray, Arthur L.; and Lehman, John P., to MB Associates. Telescopic rocket. 3,698,320, 10-17-72, Cl. 102-49.300.

Cochran, David S.; and McGhee, Glenn E., to Hewlett-Packard Company. Noncontacting keyboard. 3,668,697, 6-6-72, Cl. 340-365.000.

Cochran, Gary D.: *See—*
Thomas, Carlton E.; and Cochran, Gary D., 3,704,949.

Cochran, Gary D.; Cutrona, Louis J.; and Ingalls, Arthur L., to Conductron Corporation. Optical data processor. 3,687,543, 8-29-72, Cl. 355-52.000.

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Cochran, Larry Allen: *See—*
Kirkwood, Loren Robert; Cochran, Larry Allen; and Altmanshofer, Robert Dale, 3,701,842.

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Cochran, Linden Wayne, to Multi-Minerals Limited. Production of monocalcium orthophosphate. 3,645,676, 2-29-72, Cl. 23-109.

Cochran, Linden Wayne, to Multi-Minerals Limited. Process for producing phosphonic acid by the use of ion exchange resins. 3,645,682, 2-29-72, Cl. 23-165.

Cochran, Paul E., to Kinnear Corporation. Electrical control circuit for a door operator including an automatic control function for returning a door which is closing to an open position if an object is encountered. 3,651,332, 3-21-72, Cl. 307-119.

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Cochran, Thomas J.; Hazel, Herbert K.; and Rance, William G., Jr., to International Business Machines Corporation. X-Y rotational positioning system. 3,691,864, 9-19-72, Cl. 74-479.000.

Cochran, Thomas J.; Coughlin, Charles P.; Ficker, Walter W.; Lent, Charles V.; and Sullivan, Joseph M., to International Business Machines Corporation. Abrading apparatus. 3,702,042, 11-7-72, Cl. 51-8.000.

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Cochran Western Corporation: *See—*
Carder, Victor H.; and Cook, Kenneth L., 3,675,798.

Cochran, William H., II. Apparatus for determining flammability. 3,685,343, 8-22-72, Cl. 73-15.00r.

Cochran, William H., II. Antistatic textile product. 3,702,797, 11-14-72, Cl. 161-66.000.

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Cochrane, Robin Adam: *See—*
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Delcour, Leon Joseph Eugene; and Streel, Dominique Thomas Francois, 3,693,582.
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Cockerton, Kenneth Archibald: *See—*
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Cockrell, Darryl W.; and Callihan, Rudy B., to Baker Oil Tools, Inc. Retrievable well packer. 3,678,998, 7-25-72, Cl. 166-123.000.

Cockrell, Sanford C.; and Dorgan, Robert J., to General Electric Company. Compound hydrostatic transmission. 3,650,159, 3-21-72, Cl. 74-720.5.

Cockrum, Grover: *See—*
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Cocks, Eric H. Hot-melt adhesive systems. 3,662,927, 5-16-72, Cl. 222-146.0he.

Cocks, Franklin H., to Tyco Laboratories, Inc. Copper-zinc alloys. 3,703,367, 11-21-72, Cl. 75-157.500.

Cocks, Thomas G., to Nalco Chemical Company. Metal casting process. 3,666,531, 5-30-72, Cl. 117-5.300.

Coco, Charles E.; and Garszczynski, Suzanne M., to Wyomissing Corporation. Foamable resinous materials. 3,645,768, 2-29-72, Cl. 117-8.

Coda, Severina: *See—*
Bernardi, Luigi; Coda, Severina; Suchowsky, Giselbert Karl; and Pegrassi, Lorenzo, 3,658,803.
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Codex Corporation: *See—*
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Forney, George David, Jr., 3,665,396.

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Codina, Jorge G. Alarm. 3,636,544, 1-18-72, Cl. 340-261.

Codina, Jorge G. Accelerometer. 3,664,196, 5-23-72, Cl. 73-517.00b.

Codina, Jorge G. Weighing apparatus. 3,685,603, 8-22-72, Cl. 177-178.000.

Codman & Shurtleff, Inc.: *See—*
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Reimels, Harry G., 3,659,606.

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Coe, Sherman Michael, to Environmental Sciences Corporation. Housing system for animals. 3,658,031, 4-25-72, Cl. 119-18.

Coe, William H., to Keystone Consolidated Industries, Inc. Spring hinge construction. 3,638,277, 2-1-72, Cl. 16-190.

Coelho, Norman C.; and Thompson, Brian, to Beckman Instruments, Inc. Gas and liquid inlet system for chromatography. 3,668,935, 6-13-72, Cl. 73-422.0gc.

Coelln, Axel: *See—*
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Coen Company: *See—*
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Coen Company, Inc.: *See—*
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Coerper, Myron D.: *See—*
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Lake, Glen W.; and Coerper, Myron D., 3,662,461.

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Cofek, Henry R.: *See—*
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Cofek, Henry Robert; and Farrace, Frederick Thomas, to Iris Corporation, mesne. Apparatus and method for shell inspection. 3,680,966, 8-1-72, Cl. 356-241.000.

Cofer, Daniel B., to Southwire Company. Method of producing a hot-formed copper-base product. 3,672,430, 6-27-72, Cl. 164-76.000.

Cofer, Daniel B.; and Bray, Thomas L., to Southwire Company. Orbital coiler. 3,703,261, 11-21-72, Cl. 242-82.000.

Coffee Corporation, S.A.: *See—*
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Coffee, Ralph E.: *See—*
Mc Donnell, Thomas F.; and Coffee, Ralph E., 3,702,272.

Coffelt, Sheldon L.; Allen, Paul R.; and Crook, John B., to Sierra Pacific Industries. Bin for lumber sorter. 3,631,976, 1-4-72, Cl. 209-74.

Coffet, Dennie. Ornamental article and method of making the same. 3,666,604, 5-30-72, Cl. 161-2.

Coffey, Charles A., to Harris-Paint Company. Spray head. 3,698,645, 10-17-72, Cl. 239-573.000.

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Crotty, Homer E.; Coffey, Charles R.; and Tesdahl, Thomas C., 3,655,579.
Crotty, Homer E.; Coffey, Charles R.; and Tesdahl, Thomas C., 3,666,679.

Coffey, Charles R.; and Tesdahl, Thomas C., to Chemed Corporation. Protective coating compositions. 3,700,013, 10-24-72, Cl. 106-2.000.
Coffey, David W., to Westinghouse Electric Corporation. High efficiency power supply for charging capacitors in steps. 3,654,537, 4-4-72, Cl. 320-1.
Coffey, Francis T., Sr. Tracked vehicle toy. 3,699,711, 10-24-72, Cl. 46-216.000.
Coffey, Gerald P.; and Ball, Lawrence E., to Standard Oil Company, The. Polymeric compositions. 3,652,731, 3-28-72, Cl. 260-879.
Coffey, Gerald P.; Ball, Lawrence E.; and Duke, June T., to Standard Oil Company, The. Polymeric compositions. 3,683,052, 8-8-72, Cl. 260-879.000.
Coffey, Horace D. Tree cutting and piling apparatus. 3,664,391, 5-23-72, Cl. 143-32.
Coffey, James P.; and Veit, William E., to ESB Incorporated. Side entering storage battery terminal construction. 3,632,450, 1-4-72, Cl. 136-135.
Coffey, James P.; and Vengrofski, Frank A., to ESB Incorporated. Battery terminal construction and method for forming battery terminals. 3,644,149, 2-22-72, Cl. 136-135.
Coffey, James P., to ESB Incorporated. Intercell connection for storage batteries. 3,647,553, 3-7-72, Cl. 136-134.
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Coffey, William F.; and Coley, Kenneth R., to Westinghouse Electric Corporation. Bus bar interconnection arrangement for stackable electrical panels. 3,707,652, 12-26-72, Cl. 317-120.000.
Coffey, William F.; and Coley, Kenneth R., to Westinghouse Electric Corporation. Front cover assembly for electrical panels. 3,707,653, 12-26-72, Cl. 317-120.000.
Coffield, George C., Jr., to United States of America, Army. Fastener. 3,677,588, 7-18-72, Cl. 287-189.36f.
Coffield, Thomas H.; Knapp, Gordon G.; and Jolly, James G. Process for the recovery of cobalt. 3,684,491, 8-15-72, Cl. 75-103.000.
Coffin, David W., Sr.: *See—*
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Coffin, George, to Lucas, Joseph, (Industries) Limited. Testing of semi-conductor devices. 3,704,418, 11-28-72, Cl. 324-158.00f.
Coffin, Leon B.: *See—*
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Coffin, Louis F., Jr.; and Johnson, Lyman A., to General Electric Company. Color method for detecting cracks in metal bodies. 3,652,225, 3-28-72, Cl. 23-230.
Coffin, Louis F., Jr.; and Johnson, Lyman A., to General Electric Company. Anodic inhibitor-color method for detecting cracks in metal bodies. 3,652,226, 3-28-72, Cl. 23-230.
Coffin, Robert T.; Grundmeyer, Raymond W.; Hefner, William H.; and Mitchell, Ferd H., to International Business Machines Corporation. Determination of far field antenna patterns using fresnel probe measurements. 3,662,389, 5-9-72, Cl. 343-100.0ap.
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Coffman, Frederick E., to Chemcut Corporation. Apparatus for leveling solder in holes of printed circuit boards. 3,699,919, 10-24-72, Cl. 118-56.000.
Coffman, J. D.: *See—*
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Coffman, Verlan D.: *See—*
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Coffre, Philippe: *See—*
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Coffy, Rene Louis: *See—*
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Violleau, Andre; and Coffy, Rene Louis, 3,693,317.
Cofoid, Robert D.; and Goodwin, Clarence J., to General Time Corporation. Weather instrument for indicating comfort temperature and relative humidity values. 3,681,992, 8-8-72, Cl. 73-336.000.
Cogan, Jerry A., Jr.: *See—*
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Cogan, Jerry A., Jr., to Deering Milliken Research Corporation. Fugitive coloration of solid materials with dyes. 3,663,262, 5-16-72, Cl. 117-62.1.
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Andersen, Stanley R.; and Kinkade, Robert G., 3,686,640.
Anderson, Stanley R.; Bryant, Richard W.; and Tu, George K., 3,684,897.
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Bryant, Richard W.; and Tu, George K., 3,648,079.
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Cogar, George R.: *See—*
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Coggeshall, John C. Spectrophotometer. 3,702,736, 11-14-72, Cl. 356-96.000.
Coggings, Thomas M.: *See—*
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Coghill, Timothy L.: *See—*
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Coglianese, Fred A.; and Mc Corkle, John E., to Johns-Manville Corporation. Polyurethane foam. 3,703,482, 11-21-72, Cl. 260-2.5ak.
Cogliano, Joseph A.: *See—*
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Cogliano, Joseph A. Collapsible bicycle. 3,680,879, 8-1-72, Cl. 280-7.160.
Cognet, Jean-Marie F.: *See—*
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Cohen, Albert, to Westinghouse Electric Corporation. Self-adjusting seal ring. 3,642,295, 2-15-72, Cl. 277-226.
Cohen, Allan R.: *See—*
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Cohen, Arnold L.: *See—*
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Cohen, Arthur M., to Airpot Corporation. Dashpot assembly. 3,638,769, 2-1-72, Cl. 188-298.
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Cohen, Bernard, to FMC Corporation. Hydrogen peroxide-persulfate hair bleaching enhanced by ammonium or an alkali metal peroxydiphosphate. 3,651,209, 3-21-72, Cl. 424-62.
Cohen, Bernard, to FMC Corporation. Stain-removing solid cleansers. 3,705,103, 12-5-72, Cl. 252-100.000.
Cohen, Burton E., to General Instrument Corporation, mesne. High capacitance driving circuit. 3,649,851, 3-14-72, Cl. 307-270.
Cohen, Edward A.: *See—*
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Cohen, Edward M.; Grabowski, Edward J. J.; and Aczel, Rezso, to Merck & Co., Inc. Germine-diacetate in the treatment of myasthenia gravis. 3,670,083, 6-13-72, Cl. 424-256.000.
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Cohen, Elliott: *See—*
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Cohen, Fred Michael: *See—*
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Cohen, Harry: *See—*

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Cohen, Herbert. Electric variable tone percussion instrument. 3,655,904, 4-11-72, Cl. 84-1.01.

Cohen, Herbert I., to Acron Corporation. Telephone dialing and information transmission circuit. 3,703,607, 11-21-72, Cl. 179-5.00p.

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Cohen, Hyman L.: *See*—
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Cohen, Hyman L., to Eastman Kodak Company. Non-wandering hardening compounds and their use. 3,687,698, 8-29-72, Cl. 106-125.000.

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Cohen, Joseph D.: *See*—
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Cohen, Joseph H. Device for filtering tobacco smoke. 3,669,128, 6-13-72, Cl. 131-261.00b.

Cohen, Kenneth W.; and Martin, Thomas E., to Bailey Meter Company. Fluidic on-line system tester. 3,705,535, 12-12-72, Cl. 73-420.000.

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Cohen, Lewis. Mass production photographic printing method. 3,649,121, 3-14-72, Cl. 355-77.

Cohen, Margalit; and Mac Phee, Kenneth E., to Uniroyal, Ltd. Phosphorus containing polymers. 3,664,974, 5-23-72, Cl. 260-2.

Cohen, Martin J.: *See*—
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Cohen, Marvin: *See*—
Von Strandtmann, Maximillian; Puchalski, Chester; Cohen, Marvin; and Shavel, John, Jr., 3,642,781.

Cohen, Marvin P.: *See*—
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Von Strandtmann, Maximilian; Cohen, Marvin P.; and Shavel, John, Jr., 3,649,635.

Cohen, Maurice. Display rack with annular mounting ring. 3,695,457, 10-3-72, Cl. 211-177.000.

Cohen, Michel; Lavigne, Pierre; and Sauvagnac, Robert, to Commissariat a l'Energie Atomique. Radioisotope heat source boiler for power generators. 3,678,920, 7-25-72, Cl. 126-344.000.

Cohen, Milton J. Syringe. 3,678,931, 7-25-72, Cl. 128-220.000.

Cohen, Milton J. Syringe for injection of freshly mixed liquid-powder. 3,682,174, 8-8-72, Cl. 128-220.000.

Cohen, Mitchell S.: *See*—
Smith, Donald O.; Harte, Kenneth J.; and Cohen, Mitchell S., 3,701,979.

Cohen, Morris, to Loral Corporation. Electronically tunable microwave frequency multiplier. 3,646,426, 2-29-72, Cl. 321-69.

Cohen, Murray F.; and Tarasevich, Michael, to Kollsman Instrument Corporation. Apparatus using a beam of positive ions for controlled erosion of surfaces. 3,699,334, 10-17-72, Cl. 250-49.5te.

Cohen, Paul, to Subcom Inc. Exterior operated breech door. 3,643,615, 2-22-72, Cl. 114-16.4.

Cohen, Paul, to Westinghouse Electric Corporation. Cooling system. 3,666,246, 5-30-72, Cl. 261-151.

Cohen, Paul J. Umbrella of collapsible construction. 3,683,948, 8-15-72, Cl. 135-20.000.

Cohen, Philip. Cantilever table base. 3,658,285, 4-25-72, Cl. 248-163.

Cohen, Rene: *See*—
Blejwas, Walter T., Jr.; Kaseta, Anthony R.; and Cohen, Rene, 3,660,833.

Cohen, Richard; Moreines, Harold; and Parfomak, Walter, to Bendix Corporation, The. Digital continuous potentiometer servo feedback element. 3,662,246, 5-9-72, Cl. 318-663.

Cohen, Richard L.: *See*—
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Cohen, Richard L., to Bendix Corporation, The. Digital magnetic wheel logic control network. 3,696,390, 10-3-72, Cl. 340-324.00r.

Cohen, Ronald: *See*—
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Cohen, Ronald S., to Behavioral Controls, Inc. Dispensing apparatus for sequentially discharging tokens from an inclined stack of tokens. 3,662,770, 5-16-72, Cl. 133-5.

Cohen, Ronald S., to Behavioral Controls, Inc. Speech training apparatus and method of teaching therewith. 3,667,138, 6-6-72, Cl. 35-35.00c.

Cohen, Saul M.: *See*—
Mont, George E.; and Cohen, Saul M., 3,644,594.

Cohen, Seymour. Supports for curtains, venetian blinds, and the like. 3,678,636, 7-25-72, Cl. 52-39.000.

Cohen, Stanley I.: *See*—
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Cohen, Theodore A.: *See*—
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Cohen, Walter: *See*—
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Cohen, William D.: *See*—
Berezin, Evelyn; Wolf, Edgar; Cohen, William D.; and Marino, Francis C., 3,651,311.

Cohen, William D.; and Worster, David E. Connected rotatable pliable disk and rigid disk with annular groove for recording using an air bearing. 3,696,350, 10-3-72, Cl. 340-174.10e.

Cohen, William David, to Systems Resources Corporation. High-speed magnetic tape. 3,635,385, 1-18-72, Cl. 226-97.

Cohen-Alloro, Richard; and Grassaud, Jean, to Bureau de Recherches Geologiques et Minieres. Device for gravimetric separation of granular or pulverulent materials. 3,659,711, 5-2-72, Cl. 209-457.

Cohen-Alloro, Richard; Cuvillier, Roger; and Grassaud, Jean, to Bureau de Recherches Geologiques et Minieres. Differential-effect backing vat for coarse and fine particles. 3,703,237, 11-21-72, Cl. 209-426.000.

Coherent Radiation Laboratories: *See*—
Barker, Gerald C.; and Jarrett, Steven M., 3,646,476.
Hobart, James Lee; and Mefferd, Wayne S., 3,683,297.

Cohn, Charles E., to United States of America, Atomic Energy Commission. Random number generator. 3,706,941, 12-19-72, Cl. 331-78.000.

Cohn, Eugene; and Catallo, Frank, to Samcoe Holding Corporation. Pneumatic fabric guiding system. 3,632,030, 1-4-72, Cl. 226-3.

Cohn, Eugene; Cecere, Andrew P.; and Frezza, Robert, to Samcoe Holding Corporation. Apparatus and method for tenter processing of open width fabric. 3,670,375, 6-20-72, Cl. 26-57.00a.

Cohn, Eugene; Cecere, Andrew P.; and Frezza, Robert, to Samcoe Holding Corporation. Method of handling and processing open width fabric. 3,688,354, 9-5-72, Cl. 26-59.000.

Cohn, Eugene; and Frezza, Robert, to Samcoe Holding Corporation. Three roll processing apparatus, and method for utilization thereof. 3,692,465, 9-19-72, Cl. 8-151.000.

Cohn, Gerald, to Goodyear Tire & Rubber Company, The. Slip agents for polyester film. 3,657,180, 4-18-72, Cl. 260-31.8.

Cohn, Harold P.: *See*—
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Cohn, Jerry. Combination display, storage and dispensing means. 3,638,664, 2-1-72, Cl. 132-79.

Cohn, Jerry. Tiltable rack or display device. 3,667,617, 6-6-72, Cl. 211-128.

Cohn, Morris I.; and Perdue, Roy D., to Rosenberg, Elliot E.; trustee of and Mica Trust. Method of treating wollastonite with acid and the pigment product formed thereby. 3,642,511, 2-15-72, Cl. 106-306.

Cohn, Nathan, to Leeds & Northrup Company. Methods of and systems for coordinated system-wide energy balancing in the control of bulk power transfer. 3,701,891, 10-31-72, Cl. 235-151.210.

Cohn, Nathan, to Leeds & Northrup Company. Load shedding apparatus. 3,704,380, 11-28-72, Cl. 307-52.000.

Cohn, Peter J.: *See*—
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Cohn, Robert M.: *See*—
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Cohn, Seymour B.: *See*—
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Cohn, Seymour B., to Emerson Electric Co. Multimode horn antenna. 3,662,393, 5-9-72, Cl. 343-786.

Cohn, Seymour B., to United States of America, Army, mesne. Slot line. 3,688,225, 8-29-72, Cl. 333-73.000.
Cohrs, Arthur H.; and Kresse, Franklin T. Tree excavating machine. 3,676,941, 7-18-72, Cl. 37-2.00r.
Cohrs, William E.; and Stroiwas, Edward, to Dow Chemical Company, The. Thickened fuel compositions and method and material for thickening same. 3,679,382, 7-25-72, Cl. 44-7.00d.
Coil Sales, Inc.: *See—*
Charles, Joseph T., 3,691,294.
Coilcraft, Inc.: *See—*
Johnson, Richard A.; Jensen, Charles E.; and Renskers, John O., 3,666,090.
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Coin Sales Corporation: *See—*
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Coiner, Ronald W., to Westinghouse Air Brake Company. Diaphragm operated logic valves. 3,653,408, 4-4-72, Cl. 137-625.6.
Coiner, Ronald W., to Westinghouse Air Brake Company. Low oil pressure control system for air compressors. 3,653,782, 4-4-72, Cl. 417-12.
Coiner, Ronald W.; and Vutz, Norman, to Westinghouse Air Brake Company. Drain valve device. 3,659,625, 5-2-72, Cl. 137-204.
Coiner, Ronald W., to Westinghouse Air Brake Company. Car coupling maximum speed control system. 3,694,650, 9-26-72, Cl. 246-182.000.
Coker, Cecil Harold; and Umeda, Noriko, to Bell Telephone Laboratories, Incorporated. Conversion of printed text into synthetic speech. 3,704,345, 11-28-72, Cl. 179-1.0sa.
Coker, Chuck M.: *See—*
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Coker, James Newton, to Du Pont de Nemours, E. I., and Company. Vinyl ester copolymeric emulsions and paints prepared therefrom. 3,652,480, 3-28-72, Cl. 260-29.6.
Coker, Jesse E.: *See—*
Galli, Guido; and Coker, Jesse E., 3,664,867.
Coker, Jesse E.; and Galli, Guido, to North American Rockwell Corporation. Composites, of IIb-VIa binary film compounds on IIa-VIIa binary compound substrate crystals and process therefor. 3,658,582, 4-25-72, Cl. 117-201.000.
Coker, Lowell E.; and Turner, Almerin W., to Staley, A. E., Manufacturing Company. Method of producing amylo-1,6-glucosidase. 3,654,087, 4-4-72, Cl. 195-65.
Coker, Lowell E.; and Turner, Almerin W., to Staley, A. E., Manufacturing Company. Method of producing amylo-1,6-glucosidase. 3,654,088, 4-4-72, Cl. 195-65.
Coker, Lowell E.; and Turner, Almerin W., to Staley, A. E., Manufacturing Company. Production of amylo-1,6-glucosidase. 3,654,089, 4-4-72, Cl. 195-65.
Coker, William P.: *See—*
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Col-Mont Corporation: *See—*
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Cola, Rudolph A.: *See—*
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Cola, Rudolph A., to Burroughs Corporation. Display panel and method of operating said pane to produce different colors of light output. 3,704,386, 11-28-72, Cl. 313-108.00r.
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Colamussi, Arturo; and Molari, Pier Gabriele, to Consiglio Nazionale Delle Richerche. Compressed air feed system for pure fluid devices. 3,636,964, 1-25-72, Cl. 137-13.
Colangelo, Don L.; and Manes, Robert J., to Westinghouse Electric Corporation. Transformer having an externally operable no load tap changer. 3,636,489, 1-18-72, Cl. 336-94.
Colantuono, William R., to Crucible Inc. Protective coating. 3,698,943, 10-17-72, Cl. 117-53.000.
Colardelle, Joel Serge; Girard, Pierre; and Henri, Claude Paul, to International Standard Electric Corporation. Two-wire to four-wire conversion circuit for a data switching center. 3,689,710, 9-5-72, Cl. 179-170.00d.
Colas, Francois, to Cegedur GP. Load-carrying pallet. 3,675,596, 7-11-72, Cl. 108-51.000.
Colaud, Gerard; and Fanene, Bernard, to Societe Industrielle Honeywell Bull (Societe Anonyme). Mounting system for printed circuit boards. 3,699,396, 10-17-72, Cl. 317-101.0dh.
Colbaugh, Syril A. Lapidary machine. 3,673,742, 7-4-72, Cl. 51-101.00r.
Colbert, Isabella J. Chart holder. 3,659,368, 5-2-72, Cl. 40-104.01.
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Colburn, Donald A. Combination truck wheel unlatching hook and petcock release device. 3,644,951, 2-29-72, Cl. 7-1.
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Colburn, John P. Piano instruction device. 3,690,212, 9-12-72, Cl. 84-478.000.
Colburn, Lyle W., to Dow Chemical Company, The. Film-to-film skin packaging. 3,648,428, 3-14-72, Cl. 53-21.
Colburn, William H., Jr., to Space Ordnance Systems Inc., mesne. Delay composition and device. 3,703,144, 11-21-72, Cl. 102-24.000.
Colby, Kenneth G., to Sperry Rand Corporation. Collision avoidance system. 3,697,986, 10-10-72, Cl. 343-5.00r.
Colby, Richard H., to General Electric Company. Bolt accelerator. 3,635,123, 1-18-72, Cl. 89-169.
Colby, Richard H., to General Electric Company. Rotary sprocketed feeder for belted ammunition. 3,650,175, 3-21-72, Cl. 89-33.
Colby, Thomas H., to Shell Oil Company. Process for organophosphorus vinyl esters production. 3,696,176, 10-3-72, Cl. 260-986.000.
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Colchester, John Edward; Cairns, John Francis; and Carey, John Gerard, to Imperial Chemical Industries Limited. Manufacture of bipyridylium salts and related compounds. 3,696,113, 10-3-72, Cl. 260-295.0am.
Colchester Lathe Company Limited, The: *See—*
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Colclough, Terence; Morris, Arthur L.; and Hodges, Robert J., to Esso Research and Engineering Company. Lubricating oil compositions. 3,687,848, 8-29-72, Cl. 252-32.70e.
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Colditz, Armin O.; and Schmidt, Werner, to Hell, Rudolf, Dr.-Ing. Method of obtaining and processing control data for electronic phototype setting apparatus. 3,643,067, 2-15-72, Cl. 235-61.11.
Cole, Addison D.; and Smith, Roger S., to Adcole Corporation. Demand cardiac pacer with interference protection. 3,678,937, 7-25-72, Cl. 128-419.00p.
Cole, Addison D., to Adcole Corporation. Implantable tissue stimulator. 3,683,932, 8-15-72, Cl. 128-419.000.
Cole, Addison D., to Adcole Corporation. Demand pacer with heart rate memory. 3,693,626, 9-26-72, Cl. 128-419.00p.
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Cole, Clifford M.: *See—*
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Peterson, David L.; and Cole, Clifford M., 3,661,264.
Cole, Clinton W., to Halliburton Company. Hydraulically powered pump having a precompression function. 3,650,638, 3-21-72, Cl. 417-346.
Cole, Clinton W., to Halliburton Company. Hydraulically powered power unit. 3,662,652, 5-16-72, Cl. 91-411.00r.
Cole, Clyde C. Arresting device for heavy objects thrown with great force. 3,659,462, 5-2-72, Cl. 73-432.000.
Cole, Delmar W. Expansion joint. 3,648,423, 3-14-72, Cl. 52-109.
Cole, Donald Q.: *See—*
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Cole, Edward L.; and Hess, Howard V., to Texaco Inc. Continuous process for separating oily sludges. 3,696,021, 10-3-72, Cl. 208-13.000.
Cole, Edward L.; Hess, Howard V.; and Pomatti, Renato C., to Texaco Inc. Decomposable polyolefin agricultural mulch. 3,707,056, 12-26-72, Cl. 47-9.000.
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Cole, Edward N., to General Motors Corporation. Gas turbine catalytic exhaust system. 3,641,763, 2-15-72, Cl. 60-39.51.
Cole, Edward N., to General Motors Corporation. Exhaust emission control. 3,674,441, 7-4-72, Cl. 23-288.00f.
Cole, Ernest A.; Mayse, Weldon D.; and Watson, Frederick D., to Petrolite Corporation. Electric treatment of dispersions. 3,701,723, 10-31-72, Cl. 204-188.000.
Cole, Ernest A., Jr.; Watson, Frederick D.; and Mayse, Weldon D., to Petrolite Corporation. Separator with vessel-length phase separation sections. 3,649,516, 3-14-72, Cl. 204-302.
Cole, Everett N., Jr., to Consolidated Design, Inc. Diode tester. 3,702,438, 11-7-72, Cl. 324-158.00f.
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Cole, Fred H. Disconnect switch for electric power systems. 3,634,634, 1-11-72, Cl. 200-48.
Cole, Harold E., to Eastman Kodak Company. Diffusion transfer products adapted for multiple application of processing composition and/or opacifier and processes for their use. 3,635,707, 1-18-72, Cl. 96-3.
Cole, Harold E., to Eastman Kodak Company. Photographic film unit. 3,672,272, 6-27-72, Cl. 95-13.000.
Cole, Harold Wade, to Du Pont de Nemours, E. I., and Company. Apparatus for winding yarn. 3,638,873, 2-1-72, Cl. 242-45.
Cole, Herbert S., Jr., to General Electric Company. Electron sensitive compositions. 3,703,402, 11-21-72, Cl. 117-37.00r.
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Cole, Jack; and McIntosh, John Robert. Glass refinishing apparatus. 3,701,223, 10-31-72, Cl. 51-241.00s.
Cole, James B., to Boeing Company, The. Variable camber airfoil. 3,698,668, 10-17-72, Cl. 244-44.
Cole, James K.; Coonce, Carroll A.; and Post, Harold N., to United States of America, Atomic Energy Commission. Linear structure capturing and cutting apparatus. 3,670,648, 6-20-72, Cl. 102-4.000.
Cole, John Barrington: *See—*
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Cole, John M.; and Sinclair, William, to Thomas & Betts Corporation. Method of fabricating a magnetic memory matrix. 3,676,924, 7-18-72, Cl. 29-604.000.
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Cole, John Wayne; and Hallas, Robert, to Abbott Laboratories. 4-Anilino-1-(4-p-fluorophenyl-1-butyl) piperidine compounds. 3,686,187, 8-22-72, Cl. 260-293.790.
Cole, Jon F., 25% to Civalier, Michel, 25% to Civalier, Gerald T. and 25% to Civalier, William T. Elastic type arm exercising device. 3,652,085, 3-28-72, Cl. 272-82.
Cole, Joseph J.; and Bookwalter, Charles A., II. Automatic wheel cleaning apparatus. 3,667,486, 6-6-72, Cl. 134-45.000.
Cole, Judson C., to Continental Industries, Inc. Torque wrench. 3,703,827, 11-28-72, Cl. 73-139.000.
Cole, Louis F., to Union Carbide Corporation. Liquid eutectic mixtures of ortho-tolylene-diamine, meta-tolylenediamine and bis (aminophenyl) methane. 3,647,702, 3-7-72, Cl. 252-182.
Cole, Manning E. Conveyor for washing glassware. 3,648,822, 3-14-72, Cl. 198-131.
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Cole, Peter Harold; and Vaughn, Richard. Electronic surveillance system. 3,707,711, 12-26-72, Cl. 340-280.000.
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Cole, Robert Templeman; Whitbread, Frederick John; and Downer, John Colin, to Conder International Limited. Wall construction. 3,690,086, 9-12-72, Cl. 52-741.000.
Cole, Roy D., to United States of America, Navy. Angular rate bombing system. 3,699,310, 10-17-72, Cl. 235-61.50d.
Cole, Saxon, to American Air Filter Company, Inc. Control arrangement for an air heating apparatus. 3,694,625, 9-26-72, Cl. 219-364.000.
Cole, Stephen W., to Cole, C. W., & Co., Inc. Adjustable floor receptacle mount. 3,646,244, 2-29-72, Cl. 174-57.
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Cole, William J.; and Rytina, Anton W., to Brunswick Corporation. Variable depth coating apparatus. 3,646,909, 3-7-72, Cl. 118-629.
Cole, William J.; and Olshaske, Edward R., to Brunswick Corporation. Coated article and method of forming the same. 3,649,326, 3-14-72, Cl. 117-17.
Cole, Willie E. Portable collapsible work table. 3,669,031, 6-13-72, Cl. 108-50.000.
Colebourne, Neville; and Edwards, Philip Richard, to Imperial Chemical Industries Limited. Method of preparing nitrosyl chloride. 3,660,030, 5-2-72, Cl. 23-203.
Colebrook, Ross W.; and Ellis, Peter H., to Boeing Company, The and Rohr Corporation. Supersonic noise suppressor. 3,650,348, 3-21-72, Cl. 181-33.
Coleby, John, to Graesser, R., Limited. Treatment of solids with liquids. 3,649,209, 3-14-72, Cl. 23-270.
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Worley, Lajren D.; and Conley, James R., 3,690,708.
Coleman, David. Fastening device. 3,631,570, 1-4-72, Cl. 24-129.
Coleman, Dean George. Closure assembly for collapsible tube. 3,684,137, 8-15-72, Cl. 222-490.000.
Coleman, Donald F.; and Fuzzell, Joe E., to Caterpillar Tractor Company. Driver circuit for speeding response of remotely controlled apparatus. 3,694,671, 9-26-72, Cl. 307-254.000.
Coleman, Donald James, Jr.; and Sze, Simon Min, to Bell Telephone Laboratories, Incorporated. Schottky barrier transit time negative resistance diode circuits. 3,673,514, 6-27-72, Cl. 331-107.00r.
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Collister, Frank C. Key bolt. 3,673,910, 7-4-72, Cl. 85-3.00r.

Collister, Robert A., to Scott Engineering, Inc. Post-mounted winged insulator arm assembly. 3,643,009, 2-15-72, Cl. 174-149.

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Colman, Benjamin W.: *See—*
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Colman, Robert, to General Alarm Corporation. Window security system. 3,634,845, 1-11-72, Cl. 340-274.

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Colombo, Piero. Apparatus for reciprocating continuous casting molds by means of flexible drawing members. 3,667,536, 6-6-72, Cl. 164-260.000.

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Colston, John Ronald, to CGR Medical Corporation, mesne. Pneumatic power assist apparatus for spot film device. 3,707,629, 12-26-72, Cl. 250-58.000.
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Colt, Ralph C.; and Seil, Kenneth F., to Eastman Kodak Company. Process for transferring dry developed electrographic images. 3,647,499, 3-7-72, Cl. 117-17.5.
Coltart, Michael L.; and Paton, David, to Sun-Rype Products Ltd. Process for improved apple juice extraction. 3,667,967, 6-6-72, Cl. 99-105.000.
Colter, Rudyard M. Compartmented nautical storage rack. 3,684,102, 8-15-72, Cl. 211-88.000.
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Colton, Douglas Roy; and Kriegler, Rudolph John, to Northern Electric Company Limited. Method of reducing the mobile ion contamination in thermally grown silicon dioxide. 3,692,571, 9-19-72, Cl. 117-201.000.
Colton, Eldon L. Water-ski rope retrieving device. 3,643,886, 2-22-72, Cl. 242-86.5.
Colton, Frank B.; Marsheck, William J.; and Miyano, Masateru, to Searle, G. D., & Co. Microbiological reduction of 15-keto prostaglandin derivatives. 3,687,811, 8-29-72, Cl. 195-30.000.
Colton, Frank B.; Mikulec, Richard A.; and Nicholson, Robert T., to Searle, G. D., & Co. N-(3-Oxopregna-4, 17(20)-dien-21-yl) quaternary salts and 19-nor derivatives corresponding. 3,697,509, 10-10-72, Cl. 260-239.500.
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Colucci, Ivo, to Alfa Romeo S.p.A. Windscreen wiper for motor vehicles. 3,681,812, 8-8-72, Cl. 15-250.300.
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Columbus, Peter Spiros; and Erikson, Carl Reinbold, to Borden, Inc. Non-bubbling adhesive comprising an aqueous dispersion of polyvinylacetate-thermosetting cross-linking resin and a critical amount of hydroxypropyl cellulose. 3,657,168, 4-18-72, Cl. 260-1.
Columbus, Peter Spiros; and Mason, Ronald Thomas, to Borden, Inc. Labeling adhesive composition. 3,692,713, 9-19-72, Cl. 260-17.4st.
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Colwell, Robert E.: *See—*
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Comber, James D. Lock switch and security system for motor vehicle electrical circuits. 3,697,945, 10-10-72, Cl. 340-64.000.
Combes, Robert P., to Societe Pour Le Developpement de la Recherche Appliquee. Device for controlling displacement of an element. 3,704,855, 12-5-72, Cl. 251-63.400.
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Combs, Donald Earle, to Bell Telephone Laboratories, Incorporated. Pulse-width modulated DC to DC converter with zero percent duty cycle capability. 3,701,937, 10-31-72, Cl. 321-2.000.
Combs, Elvey S. Fish bait and method of making the same. 3,684,519, 8-15-72, Cl. 99-3.000.
Combs, Eugene E.: *See—*
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Combs, Jimmy Paul, to Motorola, Inc. Chassis and monitoring arrangement for electrical apparatus. 3,667,045, 5-30-72, Cl. 325-15.000.
Combs, Robert L.: *See—*
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Combs, Robert L.; and Bogan, Richard T., to Eastman Kodak Company. Blend containing at least a cellulose ester and a block copolymer elastomer. 3,668,157, 6-6-72, Cl. 260-13.000.
Combs, Van P., to Mega Power Corporation. Electrical coil having integrated capacitance and inductance. 3,638,155, 1-25-72, Cl. 336-69.
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Klumb, Ralph H., 3,669,834.
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Comeau, Charles P., to Captain International Industries, Ltd. Guest identification apparatus and method. 3,636,315, 1-18-72, Cl. 235-61.7.
Comeau, Raymond J. Spot welding tool. 3,679,859, 7-25-72, Cl. 219-90.000.
Comella, William K., to Bell Telephone Laboratories, Incorporated. Maintenance busy link map marking in a stored program controlled switching system. 3,652,804, 3-28-72, Cl. 179-18.
Comellas, Edouard Martin. Ground-engaging track for tracked vehicles. 3,649,085, 3-14-72, Cl. 305-38.
Comellas, Edouard Martin. Track-engaging assembly. 3,659,908, 5-2-72, Cl. 305-38.

Comenetz, George, to Westinghouse Electric Corporation. Apparatus for monitoring arc rotation on an electrode. 3,636,228, 1-18-72, Cl. 13-12.
Comer, Glen S., Jr., to Caterpillar Tractor Company. Dual meter unit steering control. 3,707,200, 12-26-72, Cl. 180-79.20r.
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Cometti, Andre; Fouche, Jean; and Le Goff, Yves, to Rhone-Poulenc S.A. Azaborolidine compounds. 3,696,103, 10-3-72, Cl. 260-268.00r.
Comfax Communications Industries, Inc.: *See*—
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Comfax Communications Industries, Inc., mesne: *See*—
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Comley, Erasmus Smit. Locking of car radios and the like. 3,705,612, 12-12-72, Cl. 151-39.000.
Comley, Peter Donald Heywood, to Movor & Coulson Limited. Conveyor belt tensioning means. 3,638,781, 2-1-72, Cl. 198-208.
Commans, Donald V., to Jo Bud, Inc. Fixtures for telescoping trailers. 3,635,516, 1-18-72, Cl. 296-23.
Commarmot, Roger, to Rhone-Poulenc S.A. Volumetric metering pump. 3,653,787, 4-4-72, Cl. 417-415.
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Commercon, Jean Claude; and Berthier, Guy. Method and device for measuring the thickness of a metal deposit on an insulating support. 3,679,968, 7-25-72, Cl. 324-34.0tk.
Commichau, Axel Klaus, to Mobil Oil Corporation, mesne. Polyglycol base lubricant. 3,652,411, 3-28-72, Cl. 252-34.7.
Commichau, Axel Klaus, to Mobil Oil Corporation. Organic compositions containing tetraoctyl-(dimethyl-amino) methylene diphosphonate as anti-wear agent. 3,696,036, 10-3-72, Cl. 252-49.900.
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Commons, Charles H., Jr., to United States of America, Commerce. Process of making thermal insulation. 3,634,250, 1-11-72, Cl. 252-62.
Commons, Ward T. Dirigible wheel device. 3,695,374, 10-3-72, Cl. 180-27.000.
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Comte, Bernard Michel; and Gareaux, Jean-Marie Louis Philippe, to Centre de Recherches de Pont-a-Mousson. Extractor for stripping pipes and other hollow parts from moulds and similar operations. 3,635,281, 1-18-72, Cl. 164-404.
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Condon, James A.; and Rothhaar, Charles W., to Maxon Pre-Mix Burner Corporation. Valve operating mechanism. 3,706,438, 12-19-72, Cl. 251-251.000.
Condon, Joseph Henry; and Hagelbarger, David William, to Bell Telephone Laboratories, Incorporated. Switching of inductances. 3,646,402, 2-29-72, Cl. 317-137.
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Confer, Howard F. Protection apparatus for a vehicle. 3,704,031, 11-28-72, Cl. 280-150.00c.
Confer, Raymond C.; and Talmon, Floyd H., to Air-Lock Plastic, Inc. Method for blow molding and compression molding thermoplastic material. 3,705,931, 12-12-72, Cl. 264-89.000.
Conforti, John W.; and Silvagi, Joseph, to Camdale Enterprises. Hypocyclic wheel dresser. 3,665,912, 5-30-72, Cl. 125-11.000.
Congdon, John M., to Jerobee Industries, Inc. Control system for remotely controlled model car. 3,683,546, 8-15-72, Cl. 46-244.00b.
Congelliere, Peter; and Buttner, Horace J. Push-push switch with improved alternate make and break latching mechanism. 3,694,603, 9-26-72, Cl. 200-153.00j.
Conger, Channing C., to United States of America, National Aeronautics and Space Administration. Inductance device with vacuum insulation. 3,648,209, 3-7-72, Cl. 336-220.
Conger, David L. Combination ski pants hanger and sales information display device. 3,685,189, 8-22-72, Cl. 40-322.000.
Conger, Marvin T.: *See—*
Evans, Theodore A.; and Conger, Marvin T., 3,635,847.
Congleton, David B.; Roberts, Donald L.; and Evans, Pat E., to National Cash Register Company, The. Computer output laser microform recording system. 3,701,999, 10-31-72, Cl. 346-76.00l.
Congoleum Industries, Inc.: *See—*
Petry, Robert K.; and Shortway, Harry A., 3,674,611.
Placente, Anthony N., 3,700,366.
Shortway, Harry A.; Graham, Alan A.; Mansolillo, Robert D.; and Dobry, Joseph F., 3,660,187.

Congost Horta, Luis. Apparatus for the operation of toy musical instruments. 3,651,731, 3-28-72, Cl. 84-95.

Congrove, Ronald L., to Royal Industries, Inc. T-edge cutter. 3,707,104, 12-26-72, Cl. 83-513.000.

Conibear, Ivor John: *See—*
Bennett, Frank; and Conibear, Ivor John, 3,696,007.

Conical Containers Company (Proprietary) Limited: *See—*
Van Manen, Jacob Teunis Teunissen, 3,678,814.

Conix, Andre Jan: *See—*
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Verhille, Karel; Conix, Andre Jan; and Noe, Robert Joseph, 3,687,658.

Conix, Andre Jan; and Cassiers, Paul Maria, to Gevaert Photo-Producten N.V. Electrothermographic image recording process. 3,654,461, 4-4-72, Cl. 250-65.

Conix, Andre Jan; and Jeurissen, Lambert Gaston, to Gevaert-Agfa N.V. Manufacture of moulding material starting from polyethylene terephthalate. 3,706,699, 12-19-72, Cl. 260-40.00r.

Conix, Andre Jan; and Jeurissen, Lambert Gaston, to Gevaert-Agfa N.V. Process for the manufacture of highly polymeric polyesters utilizing samarium compound catalysts. 3,706,711, 12-19-72, Cl. 260-75.00c.

Coniz, Andre Jan; and Laridon, Urbain Leopold, to Gevaert Photo-Producten N.V. Process for the preparation of polyesters from bisphenolic compounds and aromatic sulfonic acids. 3,658,757, 4-25-72, Cl. 260-49.

Conjeaud, Pierre: *See—*
Assouline, George; Conjeaud, Pierre; Girault, Pierre; and Leiba, Eugene, 3,671,963.
Assouline, George; Conjeaud, Pierre; Girault, Pierre; and Leiba, Eugene, 3,705,955.

Conkle, Ellsworth V. Roof micrometer and warning instrument. 3,646,553, 2-29-72, Cl. 340-421.

Conklin, Charles E., to Conklin Instrument Corporation. Apparatus for recording a temperature profile. 3,635,087, 1-18-72, Cl. 73-343.5.

Conklin, Clayton E.; Ledesma, Antonio, Jr.; and Bautista, Moises R., to Wells Lamont Corporation, mesne. Glove turning apparatus. 3,656,669, 4-18-72, Cl. 223-40.000.

Conklin, Cornelius Stephen, Jr.: *See—*
Lenkeit, Carl Heinz; and Conklin, Cornelius Stephen, Jr., 3,675,418.

Conklin, George L.: *See—*
McCaully, Ronald J.; and Conklin, George L., 3,663,605.
McCaully, Ronald J.; and Conklin, George L., 3,689,557.

Conklin, George T.: *See—*
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Conklin Instrument Corporation: *See—*
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Conklin, John D.; and D'Orazio, Edward L., to Morton-Norwich Products, Inc. Pharmaceutical compositions. 3,689,654, 9-5-72, Cl. 424-273.000.

Conklin, Joseph P., to Pitney-Bowes, Inc. Available light illuminated instrument read-out. 3,664,445, 5-23-72, Cl. 177-45.000.

Conklin, Robert M.: *See—*
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Conklin, Robert M.; and Rogers, Albert P., said Conklin and said Rogers assors. to Brunswick Corporation. Coded oral solids magazine and dispenser. 3,638,688, 2-1-72, Cl. 141-98.

Conklin, Robert M., to Brunswick Corporation. Spin detector for golf games. 3,690,675, 9-12-72, Cl. 273-185.00r.

Conklin, Roland H. Door mat. 3,663,980, 5-23-72, Cl. 15-215.

Conklin, Wayne A.: *See—*
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Conklin, Winfred S.: *See—*
Yates, Lester R.; Dorsey, Charles M., Jr.; Howell, John B.; Conklin, Winfred S.; Sawicki, Joseph J.; Shepherd, Reeves T.; and Soares, Silvio, 3,641,434.

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Conley and Kleppen Enterprises, Inc.: *See—*
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Conley, Grant W.: *See—*
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Conley, James R.: *See—*
Worley, Lajren D.; and Conley, James R., 3,690,708.

Conley, Kenneth E.; and Ellison, Thomas M., to Riegel Paper Corporation. Weather resistant moldable laminate. 3,679,510, 7-25-72, Cl. 156-245.000.

Conley, Kurt H. Classifying apparatus with adjustable fines outlet. 3,669,265, 6-13-72, Cl. 209-144.000.

Conley, Larry R.: *See—*
Weatherman, John F.; Walker, Gary J.; and Conley, Larry R., 3,705,970.

Conley, Larry R., to Accra-Point Arrays Corporation. Dual pressure welding machine. 3,660,631, 5-2-72, Cl. 219-78.

Conley, Vrain C.; and Zufelt, Paul R. Gravel washer and trash separator, process and apparatus. 3,682,299, 8-8-72, Cl. 209-17.000.

Conley, Walter R.; and Culp, Gordon L., to Neptune Microfloc, Incorporated. Removal of floc from settling device. 3,640,387, 2-8-72, Cl. 210-73.

Conley, William J., Jr.; and Ingram, Clifford G., to International Business Machines Corporation. Probe and guide assembly for testing printed circuit cards. 3,684,960, 8-15-72, Cl. 324-158.00f.

Conlisk, Peter J.: *See—*
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Conlon, Charles E.: *See—*
Gilvar, Martin; Conlon, Charles E.; and Lleger, Alfred R., 3,669,377.

Conlon, William J.: *See—*
Valbona, Bruno M.; Conlon, William J.; and Voglesonger, Harry M., 3,695,006.

Conlon, William J., to Dynamics Corporation of America. Light powered by induction of variable impedance motor. 3,668,490, 6-6-72, Cl. 318-245.000.

Conn, Charles E., Jr.; and Neumann, Robert P., to North American Rockwell Corporation. Roll diffusion bonding method. 3,668,769, 6-13-72, Cl. 29-421.000.

Conn. Engineering Assoc. Corporation: *See—*
Jossick, James L., 3,695,795.

Conn, James B.; Delbauve, J. Richard; and Lilienkamp, Hugh, to United States of America, Navy. Solid state radio frequency voltage controlled oscillator, power amplifier and direct current power supply. 3,697,886, 10-10-72, Cl. 331-69.000.

Conn, John B.: *See—*
Hinkley, David F.; and Conn, John B., 3,647,858.

Conn, John B., to Merck & Co., Inc. Indanyl acetic acids. 3,692,825, 9-19-72, Cl. 260-515.00a.

Conn, William M., to Dresser Industries, Inc. Large diameter bit for shallow angle holes. 3,659,660, 5-2-72, Cl. 175-53.

Conn, William M., to Dresser Industries, Inc. Large diameter earth boring bit. 3,705,635, 12-12-72, Cl. 175-364.000.

Connair, Michael John, to Du Pont de Nemours, E. I., and Company. Preparation of two-side coated photosensitive papers. 3,674,534, 7-4-72, Cl. 117-34.000.

Connally, Douglas R., to A.P.C. Industries, Inc. Conductor identification via counting means at a remote position. 3,681,686, 8-1-72, Cl. 324-66.000.

Connant, Paul L., Sr., to Collins Radio Company. Electrical switch. 3,646,367, 2-29-72, Cl. 307-255.

Connecticut Bank and Trust Company, The, mesne: *See—*
Ruck, Bernard W., 3,659,840.

Connecticut International Corporation: *See—*
Beal, Edward W., 3,678,260.
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Connecting Devices, Inc.: *See—*
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Bonhomme, Francois Robert, 3,686,622.

Connell, James C.; Pinnolis, Samuel; and Schmidt, Wilhelm E. A., to Western Electric Company Incorporated. Apparatus for transferring components of a sealing contact switch to an assembly machine. 3,690,471, 9-12-72, Cl. 214-1.0bt.

Connell, John M., to Foster Wheeler Corporation. Furnace burner arrangement. 3,688,747, 9-5-72, Cl. 122-333.000.

Connell, Joseph A.; and Baranyi, Anthony J., to Systems Capital Corporation. Means for the underground storage of liquified gas. 3,701,262, 10-31-72, Cl. 62-45.000.

Connell, Lehman J.: *See—*
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Connell, Raymond S., Jr.: *See—*
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Connelly, Eugene B., to United States Steel Corporation. Cutting tool. 3,656,219, 4-18-72, Cl. 29-95.

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Connelly, Gordon F.: *See—*
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Gruchmann, Frank P.; and Connelly, Gordon F., 3,656,597.

Connelly, John H., to Corning Glass Works. Fiber optic core glass. 3,650,780, 3-21-72, Cl. 106-47.

Connelly, Laverne R., to Eaton Corporation. Rotary pump with pressure relief. 3,655,299, 4-11-72, Cl. 417-310.

Connelly, Lawrence J.: *See—*
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Connelly, Lawrence W.: *See—*
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Connelly, William; Sydenham, Leonard; and Szilagyi, John, to Canadian Industries Limited. Acrylic polymers. 3,694,388, 9-26-72, Cl. 260-23.0ep.

Conner, Algie J.; and Adams, Frank H., to Universal Oil Products Company. Method for activating a hydrocracking catalyst. 3,696,026, 10-3-72, Cl. 208-111.000.
Conner, Charles J., to United States of America, Agriculture. Single bath process for orange to brown mineral dyeings, with and without fungicide, using iron, manganese, and zirconium (zirc-ox process). 3,671,178, 6-20-72, Cl. 8-52.000.
Conner, Charles J., to United States of America, Agriculture. Pad bath formulation of iron salt, ammonium oxalate and zirconyl ammonium carbonate. 3,702,753, 11-14-72, Cl. 8-52.000.
Conner, Charles J., to United States of America, Agriculture. Pad both formulation of iron salt, potassium permonganate, ammonium oxalate and zircanyl ammonium carbonate. 3,705,004, 12-5-72, Cl. 8-52.000.
Conner, David C., to LTV Electrosystems, Inc. Variable frequency control. 3,644,840, 2-22-72, Cl. 331-1.
Conner, Edmond E.: *See—*
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Conner, Edmond E.; and Wentz, Edward C., to Westinghouse Electric Corporation. Potential transformer. 3,686,600, 8-22-72, Cl. 336-70.000.
Conner, George Eugene, Sr. Self-contained valve control system. 3,665,955, 5-30-72, Cl. 137-495.000.
Conner, James M., to Combustion Engineering, Inc. Imperfect thread removal tool. 3,634,981, 1-18-72, Cl. 51-241.
Conner, James M., to Polaroid Corporation. Lens shade. 3,641,894, 2-15-72, Cl. 95-11.
Conner, John R. Self-cleaning filter system. 3,698,555, 10-17-72, Cl. 210-138.
Conner, Joseph R.; Shovlin, Thomas F.; and Helm, Jack D., to Bemis Company Inc. Band saw apparatus. 3,680,421, 8-1-72, Cl. 83-201.140.
Conner, Leonard E., to Eaton Yale & Towne, Inc., mesne. Fluid fuel burner control system. 3,649,156, 3-14-72, Cl. 431-78.
Conner, Tom E., to Tom's Hydraulic Supply. Load-supporting bed unit for a truck. 3,642,324, 2-15-72, Cl. 298-11.
Conner, Tom E. Stabilizing units for parked vehicles. 3,692,329, 9-19-72, Cl. 280-150.500.
Conner, William R., Jr., to Kellwood Company. Edge contour guidance control for pieces of material. 3,636,898, 1-25-72, Cl. 112-203.
Conner, William R., Jr., to Kellwood Company. Automatic feeder for workpieces of fabric or the like. 3,670,674, 6-20-72, Cl. 112-121.290.
Conner, William V., to United States of America, Atomic Energy Commission. Plutonium production. 3,666,443, 5-30-72, Cl. 75-84.100.
Connerney, William R., to Raytheon Company. Waveguide hybrid junction wherein a wall of the E-arm is contiguous with a wall of the H-arm. 3,670,268, 6-13-72, Cl. 333-11.000.
Conners, Alan: *See—*
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Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Conners, Alan; and Gosden, Derek Vernon, 3,677,740.
Conners, John A.; Liepelt, Donald W.; and Baulieu, William H., to Jenkins Bros. Butterfly valve. 3,692,276, 9-19-72, Cl. 251-306.000.
Conners, Robert E., to Sunline, Inc. Conveyor system. 3,633,734, 1-11-72, Cl. 198-78.
Connett, Donald C.; Olsen, Gerald N.; and Lonnemo, Kurt R., to Sperry Rand Corporation. Power transmission. 3,646,959, 3-7-72, Cl. 137-596.12.
Connick, William J., Jr.: *See—*
Ellzey, Samuel E., Jr.; Connick, William J., Jr.; Reeves, Wilson A.; and Drake, George L., Jr., 3,655,413.
Ellzey, Samuel E., Jr.; Connick, William J., Jr.; Reeves, Wilson A.; and Drake, George L., Jr., 3,701,626.
Connick, William J., Jr.; and Ellzey, Samuel E., Jr., to United States of America, Agriculture. Process for imparting a water-and oil-repellent emulsion finish for cellulosic materials. 3,655,435, 4-11-72, Cl. 117-139.5.
Conniff, Jay P.; Delaney, Vincent N.; and Merz, Kenneth A., to Torin Corporation. Centrifugal blower wheel method of making. 3,641,644, 2-15-72, Cl. 29-156.8.
Connolly, Douglas P.; and Poehlein, Raymond E., to Xerox Corporation. Temperature sensing apparatus. 3,690,176, 9-12-72, Cl. 73-351.000.
Connolly, James J.: *See—*
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Connolly, John F.; Flannery, Robert J.; and Mc Collum, John D., to Standard Oil Company (Indiana). Electrochemical production of 1,4-dihydro aromatic compounds. 3,699,020, 10-17-72, Cl. 204-73.000.
Connolly, Thomas J. Fast neutronic reactor utilizing plutonium 240 fuel. 3,664,923, 5-23-72, Cl. 176-40.
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Connor, Augustus S., to Wix Corporation. Oil filter and seal means therefor. 3,677,412, 7-18-72, Cl. 210-440.000.
Connor, Daniel S.; and Krummel, Harry Karl, to Procter & Gamble Company, The. 1,3,5-Trihydroxy-2,4,6-benzene tricarboxylic acid and water soluble salts thereof. 3,699,159, 10-17-72, Cl. 260-521.00r.
Connor, Donald E., to International Harvester Company. Self centering seed shoe for double disk furrow opener. 3,658,018, 4-25-72, Cl. 111-88.000.
Connor, Donald E.; and Boetto, Charles, to International Harvester Company. Quick attachable planter disk depth drums. 3,664,434, 5-23-72, Cl. 172-536.000.
Connor, Donald H.; and Olson, George E., to Caterpillar Tractor Company. Thermal compensating support for turbocharger shafts. 3,692,436, 9-19-72, Cl. 417-406.000.
Connor Engineering Corporation: *See—*
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Connor, James J. O., to Kimberly-Clark Corporation. Exploding of ammonia impregnated wood chips. 3,707,436, 12-26-72, Cl. 162-9.000.
Connor, John M.; and Gureghian, Krikor D., to Chemical Construction Corporation. Dual absorption sulfuric acid process. 3,653,828, 4-4-72, Cl. 23-168.
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Conover, Lloyd H.; McFarland, James W.; and Austin, William C., to Pfizer Inc. Method of controlling helminthiasis. 3,644,624, 2-22-72, Cl. 424-251.
Conover, Lloyd H., to Pfizer Inc. 3-Methylquinoxaline-2-carboxamide-1,4-dioxides for the control of salmonella choleraesuis infections. 3,663,697, 5-16-72, Cl. 424-250.
Conover, Lloyd H.; and Woodward, Robert B., to Pfizer Inc. Anthracyclidine-acetic acid derivatives. 3,697,552, 10-10-72, Cl. 260-351.000.
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Conrad, Charles F.; and Dadd, Kieth L., to Thermotron Corporation. Floor structure for a test chamber. 3,664,181, 5-23-72, Cl. 73-71.600.
Conrad, E. Henry. Display package of a Schiffli-embroidered emblem patch. 3,662,878, 5-16-72, Cl. 206-45.330.
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Conrad, Erich Henry. Schiffli-embroidered panel and kit containing the same. 3,701,207, 10-31-72, Cl. 35-26.000.
Conrad, Ernst; and Theander, Olof, to Lyckeby Starkelseforadling AB. Sugar substitute additive preparations of sorbitol and gluconic acid. 3,651,221, 3-21-72, Cl. 424-180.
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Conrad, John Harold; Reynolds, Anthony Edward St. Aubyn; and Gadd, Edward George, to Solartron Electronic Group Limited, The. Jitter free trigger pulse generator. 3,676,707, 7-11-72, Cl. 307-260.000.
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Conrad, Lawrence H., to Minnesota Mining and Manufacturing Company. Three element microphotographic objective lens. 3,640,607, 2-8-72, Cl. 350-226.

Conrad, Lawrence H., to Minnesota Mining and Manufacturing Company. High resolution six element objective lens. 3,649,102, 3-14-72, Cl. 350-222.
Conrad, Lucas J., to Reynolds, R. J., Tobacco Company. Method and apparatus for classifying articles. 3,707,228, 12-26-72, Cl. 209-124.000.
Conrad, Ludas J.; and Pope, Raymond C., to Reynolds, R. J., Tobacco Company. Apparatus for separating meat and bones including bone elevator. 3,670,882, 6-20-72, Cl. 209-2.000.
Conrad, Martin B., to Baker Oil Tools, Inc. Through tubing cementing method. 3,633,673, 1-11-72, Cl. 166-291.
Conrad, Martin B. Tubing anchor and catcher. 3,664,417, 5-23-72, Cl. 166-216.
Conrad, Martin B. Support assembly for camper. 3,672,524, 6-27-72, Cl. 214-515.000.
Conrad, Oswald, to Daimler-Benz Aktiengesellschaft. After-guide-blading of an axial compressor. 3,652,184, 3-28-72, Cl. 415-181.
Conrad, Oswald, to Daimler-Benz Aktiengesellschaft. Guide blades of axial compressors. 3,694,102, 9-26-72, Cl. 415-115.000.
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Conradt, Hans; and Zoebe, Hugo, to Vereinigte Deutsche Metallwerke AG. Metal coins which can be distinguished and separated from one another by physical methods responding to magnetic properties. 3,634,890, 1-18-72, Cl. 2-199.
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Zollner, Dieter; and Reichelt, Bernhard, 3,644,654.
Zollner, Dieter; Koziol, Konrad; Reichelt, Bernhard; and Lippert, Wolfgang, 3,676,371.
Conrady, James A.; and Fitzpatrick, John S., to Goodrich, B. F., Company, The. Sand core and mold compositions containing glycerine and an ammonium salt. 3,679,703, 7-25-72, Cl. 260-33.40r.
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Conroy, Natalie Hetman, to Arizona Chemical Company, mesne. Polymerization of unsaturated fatty acids. 3,632,822, 1-4-72, Cl. 260-407.
Conroy, Robert E.; and Hauger, John H. Protective head gear. 3,668,704, 6-13-72, Cl. 2-3.00r.
Conroy, Thomas P.; Fredrickson, Walter G.; and Thrailkill, Howard A., to Harris-Intertype Corporation. Editing apparatus. 3,685,019, 8-15-72, Cl. 340-172.500.
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Constable, Charles F., to Schlitz, Jos., Brewing Company. Conveying system having an automatically deactivated drive. 3,667,589, 6-6-72, Cl. 198-127.000.
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Constable, Geoffrey Ernest Patrick, to Smiths Industries Limited. Access-control equipment and item dispensing systems including such equipment. 3,657,521, 4-18-72, Cl. 235-61.7.
Constable, Geoffrey Ernest Patrick, to Smiths Industries Limited. Credit-and access-control equipment. 3,673,571, 6-27-72, Cl. 340-149.00a.
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Contois, Lawrence E.; Merrill, Stewart H.; and Grau, George S., to Eastman Kodak Company. Charge-transfer complexes of dibenzofuran-formaldehyde or dibenzothiophene-formaldehyde resins as photoconductive materials. 3,655,378, 4-11-72, Cl. 96-1.5.
Contois, Lawrence E., to Eastman Kodak Company. Photoconductive elements containing alkali-release materials. 3,671,233, 6-20-72, Cl. 96-16.000.
Contois, Lawrence E. Method of preparing a homogeneous dye-sensitized electrophotographic element. 3,684,548, 8-15-72, Cl. 117-34.000.
Contois, Lawrence Edward, to Eastman Kodak Company. Dinitroarylmethine dyes as sensitizers in electrophotographic layers. 3,647,433, 3-7-72, Cl. 96-1.6.
Contois, Lawrence Edward, to Eastman Kodak Company. 1-Aminopyridinium dyes as sensitizers in electrophotographic layers. 3,658,521, 4-25-72, Cl. 96-1.6.
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Controlex Corporation: *See—*
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Converse, George F.: *See—*
Lauderback, Jarvis K.; and Converse, George F., 3,634,015.
Converse, John O.: *See—*
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Converse, Vernon G., III; Allington, George R.; and Mosher, Peter J., to Scans Associates, Inc. Accumulator conveyor system. 3,631,967, 1-4-72, Cl. 198-181.
Converse, Vernon G., III; Allington, George R.; Mosher, Peter J.; and Seymour, Lee J., to Scans Associates, Inc. Industrial system and method. 3,648,819, 3-14-72, Cl. 198-18.
Conversion Chemical Corporation: *See—*
Beckwith, Merton M., 3,649,478.
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Conway, Edward M.; and Conway, Daniel E., to Conway-Cleveland Corporation. Drawer construction for card files and the like. 3,640,421, 2-8-72, Cl. 220-22.3.
Conway, Gerard V., to General Electric Company. Non-shorting winding connection for tap changer on series-multiple transformer. 3,691,495, 9-12-72, Cl. 336-147.000.
Conway, Joseph Rae: *See—*
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Conway, Maurice A.; Perkins, Carl C., Jr.; and Bellem, Norman A., to Butler Manufacturing Company. Starting platform for a roof seaming machine. 3,669,051, 6-13-72, Cl. 113-54.000.
Conway, Patrick H., to Sperry Rand Corporation. Hamming distance and magnitude detector and comparator. 3,656,109, 4-11-72, Cl. 340-146.2.
Conway-Cleveland Corporation: *See—*
Conway, Edward M.; and Conway, Daniel E., 3,640,421.
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Gaffney, Bernard J., 3,700,521.
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Conwell, Phillip J. Steam powered vehicle. 3,672,048, 6-27-72, Cl. 180-67.000.
Conwicke, Joel A., to Du Pont de Nemours, E. I., and Company. Screen printable solder compositons. 3,684,533, 8-15-72, Cl. 106-1.000.
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Coogan, Joseph F., III: *See*—
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Cook, Arnold G., to AVM Corporation. Method for tabulating election returns. 3,648,022, 3-7-72, Cl. 235-61.9.
Cook, Arnold M., to Norton Company. Spray nozzle orifice member. 3,647,147, 3-7-72, Cl. 239-599.
Cook, Billy G.; Pollard, Barry; and Martinez, Romulo M., to Rohr Corporation. Methods of bonding metals together. 3,683,488, 8-15-72, Cl. 29-472.300.
Cook, Billy G., to General Electric Company. Cooking vessel with detachable handle. 3,685,092, 8-22-72, Cl. 16-114.000.
Cook, Billy G., to General Electric Company. Fastening support means. 3,687,409, 8-29-72, Cl. 248-151.000.
Cook, Charles E., to Sperry Rand Corporation. Secure pulse compression coding system. 3,654,554, 4-4-72, Cl. 325-43.
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Cook, Charles F.; Doane, Elliott P.; and Johnson, Marvin M., to Phillips Petroleum Company. Recovery of electrical energy in carbon black production. 3,649,195, 3-14-72, Cl. 23-209.4.
Cook, Charles F., to Boise Cascade Corporation. Palletized container bottom construction. 3,695,506, 10-3-72, Cl. 229-37.000.
Cook, Charles R., Jr., to International Telephone and Telegraph Corporation. Method of fabricating a semiconductor device. 3,676,922, 7-18-72, Cl. 29-577.000.
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Cook, Elton S.; and Tanaka, Kinji, to Stanley Drug Products, Inc. Method of treating bacterial infections. 3,632,753, 1-4-72, Cl. 424-177.
Cook, Elton S.; and Berberich, Norbert J., Jr., to Stanley Drug Products, Inc. Methods of treating bacterial infections. 3,641,247, 2-8-72, Cl. 424-211.
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Cook, Francis W., Jr., to New Britain Machine Company, The. Safety mechanism for a plastics injection-molding machine. 3,650,650, 3-21-72, Cl. 425-153.
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Cook, Gordon Henry; and Laurent, Francois Rene, to Rank Organisation Limited, The. Objectives of variable focal length. 3,682,534, 8-8-72, Cl. 350-186.000.
Cook, Gordon Henry; and Lajrent, Francois, to Rank Organisation Limited, The. Optical objective of variable focal length. 3,705,759, 12-12-72, Cl. 350-184.000.
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Cook, Michael W., to Goodyear Tire & Rubber Company, The. Push-on bridge washer for pneumatic tire tubes. 3,699,840, 10-24-72, Cl. 85-36.000.
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Cook, Richard L., to Marshall Industries. Self-sealing structure for use as a fluid barrier in containers. 3,664,904, 5-23-72, Cl. 161-50.
Cook, Richard L., to Goodyear Aircraft Corporation. Hard faced plastic armor plate. 3,700,534, 10-24-72, Cl. 161-38.000.
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Cook, Robert W.; Bissaillon, Edmond J.; and Dickinson, Robert P., to Fischer-Cook, Inc. Internal pipe clamp applying apparatus and method. 3,642,032, 2-15-72, Cl. 138-97.
Cook, Ross. Push-pull pneumatic tube system. 3,659,809, 5-2-72, Cl. 243-19.
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Cook, Thomas E. Moldable hydrated magnesium oxide and the formation of molded articles therefrom. 3,652,305, 3-28-72, Cl. 106-58.
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Cook, Vernon W., Jr. Float controlled circuit breaker means. 3,686,534, 8-22-72, Cl. 317-123.000.
Cook, W Roland. Adjustable tar removing filter for smokers. 3,650,278, 3-21-72, Cl. 131-215.
Cook, William A. Rotatable X-ray grid with non-stationary center and method. 3,684,885, 8-15-72, Cl. 250-62.000.
Cook, William C.; and Hogan, Walter J., to International Business Machines Corporation. Multiplexed video generation. 3,641,558, 2-8-72, Cl. 340-324.
Cook, William H., to Monsanto Company. Method and apparatus for controlling polymerization reactions. 3,668,096, 6-6-72, Cl. 204-165.
Cook, William H., to Bunker-Ramo Corporation, The. Automatic photo comparison system. 3,678,190, 7-18-72, Cl. 178-6.800.
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Cook, William M., to Electronic Memories and Magnetics Corporation. Dynamically terminated memory line selection scheme. 3,651,497, 3-21-72, Cl. 340-174.
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Cooke, Albert Edward, to Trip-Lite Limited. Positive feed system for circular knitting machines. 3,675,446, 7-11-72, Cl. 66-132.00t.
Cooke, Brian Alfred; and Magee, James Arthur, to Imperial Chemical Industries Limited. Electrocoating process. 3,699,031, 10-17-72, Cl. 204-181.000.
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Cooke, George A.; Dugger, Harry A.; and Houlihan, William J., to Sandoz-Wander, Inc. Processes for imidazo [2,1-a] isoindoles. 3,657,268, 4-18-72, Cl. 260-309.6.
Cooke, George A.; and Houlihan, William J., to Sandoz-Wander, Inc. Preparation of 4-aryl-2 (1H)-quinazolinones and thiones. 3,686,178, 8-22-72, Cl. 260-251.0qb.
Cooke, George A.; and Griot, Rudolf G., to Sandoz-Wander, Inc. Substituted-A-anilino pyrrolines. 3,687,973, 8-29-72, Cl. 260-326.300.
Cooke, George H. Marine toilet. 3,665,521, 5-30-72, Cl. 4-10.
Cooke, Harry F.; Weber, Roger L.; Hall, Donald B.; and Whitten, Darrell W., to Texas Instruments, Incorporated. Varactor tuned microstrip tuner. 3,659,205, 4-25-72, Cl. 325-445.
Cooke, John, to Gullick Dobson Limited. Control systems for self-advancing mine roof supports. 3,661,056, 5-9-72, Cl. 91-413.000.
Cooke, Robert F., to Unitec Industries, Inc. Wound filament ladder. 3,674,110, 7-4-72, Cl. 182-46.000.
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Cooksey, William Harold, to Lucas, Joseph, (Industries) Limited. Ignition distributor with a support plate for the contact assembly held in position by zone resilience. 3,668,339, 6-6-72, Cl. 200-19.000.
Cooksey, William Harold. Ignition distributors. 3,686,749, 8-29-72, Cl. 29-598.000.
Cooksey, William Harold, to Lucas, Joseph, (Industries) Limited. Ignition distributors. 3,688,391, 9-5-72, Cl. 29-598.000.
Cooksey, William Harold. Ignition distributors. 3,688,392, 9-5-72, Cl. 29-598.000.
Cooksey, William Harold, to Lucas, Joseph, (Industries) Limited. Ignition distributors. 3,694,905, 10-3-72, Cl. 29-598.000.
Cooksley, Ralph D., to Thermaline Corporation. Heat transfer method and apparatus. 3,631,919, 1-4-72, Cl. 165-1.
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Cookson, William, to Cookson Metal Developments, Limited. Roofing and siding sheets and fastening means therefor. 3,699,737, 10-24-72, Cl. 52-489.000.
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Coole, Stanley S., to Ohio Displays, Inc. Multiple switch amusement projection device and method. 3,667,754, 6-6-72, Cl. 272-8.00p.
Cooley, Austin C., to Eastman Kodak Company. Regeneration of blix solutions used in photographic processing. 3,634,088, 1-11-72, Cl. 96-60.
Cooley, Austin C., to Eastman Kodak Company. Recovery of color-forming couplers. 3,655,753, 4-11-72, Cl. 260-559.
Cooley, Austin C., to Eastman Kodak Company. Regeneration of bleach-fix solutions used in photographic processing. 3,700,450, 10-24-72, Cl. 96-60.0bf.
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Quayle, Joshua Creer; Greatrix, Graham Roland; and Coombe, Ronald Alan, 3,664,306.
Coombs, Ivan G., to Stephens, John A. Welding stud and method. 3,671,710, 6-20-72, Cl. 219-99.000.

Coombs, Peter M.; and Hough, Harold L., to Sylvania Electric Products, Inc. Dental light. 3,666,180, 5-30-72, Cl. 240-41.150.

Coombs, Peter M.; Davey, Ernest; and Kowalski, Conrad Edward, to Sylvania Electric Products, Inc. Dental light with dichroic and infrared filters. 3,704,928, 12-5-72, Cl. 350-1.000.

Coombs, Robert V.: *See—*
Bacso, Imre; and Coombs, Robert V., 3,682,985.

Coombs, Robert V.; and Galantay, Eugene E., to Sandoz-Wander, Inc. Aromatically-unsaturated 9α-methyl steroids. 3,655,652, 4-11-72, Cl. 260-239.55.

Coombs, Robert V.; and Galantay, Eugene E., to Sandoz-Wander, Inc. Derivatives of 21-methyl-19-norpregnanes. 3,661,940, 5-9-72, Cl. 260-397.3.

Coon, Clifford L., to Stanford Research Institute. N,N',N'-Trichlorosuccinimidine. 3,642,824, 2-15-72, Cl. 260-326.85.

Coon, Clifford L.; and Tegg, Derek, to Stanford Research Institute. Method for chlorinating substituted granidines and resulting product compounds. 3,658,903, 4-25-72, Cl. 260-564.00a.

Coon, Clifford L., to Stanford Research Institute. Polychloro amidines and process for preparing them. 3,673,252, 6-27-72, Cl. 260-564.00r.

Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., to United States of America, Navy. 2,2-Bis (difluoramino)-5-fluoro-5,5 dinitro-1-pentyl acrylate. 3,700,723, 10-24-72, Cl. 260-486.00h.

Coon, David S.: *See—*
Tauscher, Kenneth E.; Roome, Theodore F., Jr.; and Coon, David S., 3,699,449.

Coon, James A.: *See—*
Coon, James A.; and Theobald, Elwin (said Theobald assor. to said), 3,656,216.
Severn, Alpha, 3,682,449.

Coon, James A. Quick release female plug. 3,643,202, 2-15-72, Cl. 339-75.

Coon, James A.; and Theobald, Elwin, said Theobald assor. to said Coon, James A. File handle. 3,656,216, 4-18-72, Cl. 29-80.

Coon, James A. Beveling attachment for belt sanders. 3,668,809, 6-13-72, Cl. 51-135.00r.

Coon, John M. Handgun to rifle conversion assembly. 3,685,194, 8-22-72, Cl. 42-77.000.

Coonan, Paul Valentine, to British Aircraft Corporation Limited. Pipe bending. 3,653,251, 4-4-72, Cl. 72-369.

Coonce, Carroll A.: *See—*
Cole, James K.; Coonce, Carroll A.; and Post, Harold N., 3,670,648.

Cooner, William W., to Du Pont de Nemours, E. I., and Company. Progressive burning smokeless powder coated with an organic ester. 3,704,185, 11-28-72, Cl. 149-11.000.

Cooney, Frank E., to National Cash Register Company, The. Electrical connectors. 3,660,803, 5-2-72, Cl. 339-176.

Cooney, James S., to Pylon Company, Inc. Article locating and positioning apparatus. 3,651,401, 3-21-72, Cl. 324-158.

Coonley, Avery, School, Inc.: *See—*
Busch, William Larry, 3,694,933.

Coons, William R., Jr.: *See—*
Nelson, Gerald V.; Coons, William R., Jr.; and Wray, Glenn C., 3,691,152.

Coons, William R., Jr.; Nelson, Gerald V.; and Wray, Glenn C., to Texaco Inc. Desulfurization of residue-containing hydrocarbon oils. 3,686,095, 8-22-72, Cl. 208-216.000.

Coontz, John G. Tractor-mounted post hole digger. 3,700,045, 10-24-72, Cl. 173-26.000.

Coope, Robert L. Collet closing mechanism for a machine tool. 3,666,279, 5-30-72, Cl. 279-50.

Cooper, Abraham J. Precision investment casting apparatus. 3,648,760, 3-14-72, Cl. 164-244.

Cooper, Alan: *See—*
Grewcock, Sidney B.; Cooper, Alan; Amos, Arthur; and Sylvester, Paul, 3,668,899.

Cooper, Alan A.: *See—*
Grewcock, Sidney B.; and Cooper, Alan A., 3,641,790.

Cooper, Alberta M.: *See—*
Cooper, Roy L., 3,646,540.

Cooper, Alfred, to Expanded Rubber & Plastics Ltd. Production of foamed polyethylene. 3,640,915, 2-8-72, Cl. 260-2.5.

Cooper, Alfred R.; and Young, Charles Gilbert, to American Optical Corporation. Laser structures. 3,646,472, 2-29-72, Cl. 331-94.5.

Cooper, Barbara T.; Pollak, Lynn F.; and Kodner, Penny W. Hockey uniform garment. 3,670,339, 6-20-72, Cl. 2-22.000.

Cooper, Bernard, to International Telephone and Telegraph Corporation. Angular modulation direction finding receiver. 3,680,125, 7-25-72, Cl. 343-115.000.

Cooper Bros., (Bordesley) Limited: *See—*
Fowell, Ian Gordon George, 3,631,998.

Cooper, Bryan E.: *See—*
Chandra, Grish; Owen, William J.; Lloyd, Norman C.; and Cooper, Bryan E., 3,699,140.

Cooper, Carroll C.: *See—*
Rhoades, John M.; and Cooper, Carroll C., 3,705,339.

Cooper, Cecil D. Artificial rumen stimulator. 3,696,787, 10-10-72, Cl. 119-1.000.

Cooper, Charles R.: *See—*
Aldrich, Billy R.; Cooper, Charles R.; and Rasquin, John R., 3,636,966.

Cooper, Clifford B., to General Dynamics Corporation. Rotating variable nose. 3,690,600, 9-12-72, Cl. 244-120.000.

Cooper, Cyril Walker; deceased (by Knight, Edgar; executor), to Cawood Wharton & Company Limited. Heat treatment of bodies of combustible material. 3,697,055, 10-10-72, Cl. 263-8.00r.

Cooper, David E., to Texaco Inc. Oxidative regenerating crystalline alumino-silicates with recycle gas treatment. 3,649,559, 3-14-72, Cl. 252-416.

Cooper, David J.: *See—*
Marquez, Joseph A.; Wagman, Gerald H.; and Cooper, David J., 3,651,042.

Cooper, Dexter P., Jr., to Bell & Howell Company. Information display apparatus. 3,633,475, 1-11-72, Cl. 95-11.

Cooper, Dexter P., Jr., to Bell & Howell Company. Control signal recording. 3,665,118, 5-23-72, Cl. 179-100.2.

Cooper, Donald R.: *See—*
Van Ausdal, Robert K.; and Cooper, Donald R., 3,707,090.

Cooper, Donno W., to International Rubber Industries, Inc. Tire chucking device. 3,674,067, 7-4-72, Cl. 144-288.00a.

Cooper, Edward: *See—*
Wolfer, Allan J.; and Cooper, Edward, 3,702,996.

Cooper, Glenn D.: *See—*
Bennett, James G.; and Cooper, Glenn D., 3,639,656.

Cooper, Glenn D.; and Bennett, James G., to General Electric Company. Formation of polyphenylene ethers. 3,642,699, 2-15-72, Cl. 260-47.

Cooper, Glenn D.; and Bennett, James G., to General Electric Company. Formation of polyphenylene ethers. 3,661,848, 5-9-72, Cl. 260-47.

Cooper, Glenn D., to Westinghouse Electric Corporation. Pivoted pad journal bearing. 3,687,510, 8-29-72, Cl. 308-122.000.

Cooper, Guy F. System for determining the orientation of an object by employing plane-polarized light. 3,633,212, 1-4-72, Cl. 346-107.

Cooper, Hal B. H. Process for producing a dihaloborane-containing stream. 3,684,462, 8-15-72, Cl. 423-276.000.

Cooper, Hal B. H. Alkali metal production. 3,695,864, 10-3-72, Cl. 75-66.000.

Cooper, Henry R. Floor joist stabilizer. 3,667,786, 6-6-72, Cl. 287-20.94.

Cooper, Herbert T.: *See—*
Cooper, Kenneth G.; Cooper, Herbert T.; and Rowland, Colin M., 3,671,484.
Griffiths, Brian J.; Cooper, Herbert T.; and Hudson, Peter F., 3,661,964.

Cooper, Herbert W., to Westinghouse Electric Corporation. Switched high power pulsed array. 3,657,656, 4-18-72, Cl. 325-130.

Cooper, Herbert W., to Westinghouse Electric Corporation. Interferometer and angle encoding navigation system. 3,697,997, 10-10-72, Cl. 343-108.00r.

Cooper, Hugh; Whitehouse, Dale S.; and Womble, George E., to Kewanee Machinery & Conveyor Co. Gang bolt locking arrangement. 3,669,193, 6-13-72, Cl. 172-570.000.

Cooper, Hugh S., to Cooper Metallurgical Corporation. Rust and heat resisting ferrous base alloys containing chromium and aluminum. 3,676,109, 7-11-72, Cl. 75-124.000.

Cooper Industries, Inc.: *See—*
Fulcher, Junius H., 3,701,226.
Reynolds, Harold C., 3,646,837.
Sauder, Earl R., 3,653,783.
Weller, Carl E.; and Solt, Wilbur A., 3,662,152.

Cooper, Irvin J., to Minnesota Mining and Manufacturing Company. Contrasting background display. 3,653,138, 4-4-72, Cl. 40-130.

Cooper, Irwin; Parker, Wilbur Allen; and Melnick, Daniel, to CPC International Inc. Process for making hexitol coated nuts. 3,671,266, 6-20-72, Cl. 99-126.000.

Cooper, Jack A., to Lear Siegler, Inc. Linear motion meter device. 3,686,570, 8-22-72, Cl. 324-132.000.

Cooper, James A., to United States of America, Atomic Energy Commission. Electrical surge diverting connector. 3,702,420, 11-7-72, Cl. 317-61.000.

Cooper, James H.: *See—*
Muller, John Thomas; Scull, William L.; Cooper, James H.; and Soderberg, Curt A., 3,642,021.

Cooper, James Joseph, Jr., to International Telephone and Telegraph Corporation. Electrical connector. 3,696,321, 10-3-72, Cl. 339-94.00a.

Cooper, James Joseph, Jr.; and Schurter, Gary Lee, to International Telephone and Telegraph Corporation. Terminal connector. 3,699,497, 10-17-72, Cl. 339-60.00r.

Cooper, James Lee, to General Electric Company. Turbomachinery blade retainer. 3,653,781, 4-4-72, Cl. 416-221.

Cooper, James M.: *See—*
Laenen, Nicholas M.; and Cooper, James M., 3,640,653.

Cooper, James R., to Chemical Refiners, Inc. Cyclic integrated copper process. 3,640,703, 2-8-72, Cl. 75-101.

Cooper, John, to Matratex Engineers Limited. Guide means. 3,691,857, 919-72, Cl. 74-89.000.
Cooper, John Richard; and Perkins, Gilbert Thornton, to Du Pont de Nemours, E. I., and Company. Separation of distillable isocyanates from their phosgenation masses. 3,694,323, 9-26-72, Cl. 203-60.000.
Cooper, Joseph: *See—*
Kruger, James B.; and Cooper, Joseph, 3,648,331.
Cooper, Joseph, to Scovill Manufacturing Company. Reusable package. 3,666,087, 5-30-72, Cl. 206-45.340.
Cooper, Joseph Ernest: *See—*
Baig, Reginald; Cooper, Joseph Ernest; and Meek, Louis, 3,680,508.
Cooper, Joseph S.: *See—*
Costello, Edward, Jr.; Cooper, Joseph S.; and Dunlap, Harold E., 3,688,336.
Cooper, Julius; and Nielsen, Edwin A., to Ideal Toy Corporation. Apparatus for starting and terminating a toy vehicle race. 3,674,269, 7-4-72, Cl. 273-86.00r.
Cooper, Julius, to Ideal Toy Corporation. Toy robot. 3,703,048, 11-21-72, Cl. 46-148.000.
Cooper, Kenneth, to Gullick Dobson Limited, Inc. Mine roof support control system. 3,664,138, 5-23-72, Cl. 61-45.00d.
Cooper, Kenneth G.; Cooper, Herbert T.; and Rowland, Colin M. Silicone release coatings. 3,671,484, 6-20-72, Cl. 260-33.6sb.
Cooper, Lawrence E.; and Peterson, Robert W., to Texas Instruments, Incorporated. Circuit breaker. 3,651,436, 3-21-72, Cl. 335-13.
Cooper, Leon M., to International Business Machines Corporation. Copying system featuring alternate developing and cleaning of successive image areas on photoconductor. 3,637,306, 1-25-72, Cl. 355-15.
Cooper, Lloyd R., to Heppenstall Company. Production of large steel ingots with consumable vacuum arc hot tops. 3,696,859, 10-10-72, Cl. 164-52.000.
Cooper Metallurgical Corporation: *See—*
Cooper, Hugh S., 3,676,109.
Cooper, Michael Henry; and Fryatt, Leslie Alva, to N.G.N. Limited. Microtome assemblies. 3,673,904, 7-4-72, Cl. 83-171.000.
Cooper, Michael Lakin, to Imperial Chemical Industries Limited. Coated woven materials. 3,660,150, 5-2-72, Cl. 117-138.8.
Cooper, Michael Lakin, to Imperial Chemical Industries Limited. Coated woven materials. 3,660,152, 5-2-72, Cl. 117-138.8.
Cooper, Mose Coleman. Labeling machine. 3,635,779, 1-18-72, Cl. 156-542.
Cooper of Canada Limited: *See—*
Bassett, Frank W., 3,638,942.
Cooper, Paul Neville; and Tymons, Bryan John, to Stephen, R. A., & Company Limited. Dosimeter having two ionization chambers with different ratios of neutron to gamma radiation responses. 3,707,632, 12-26-72, Cl. 250-83.3pd.
Cooper, Pauline E. Adjustable pet feeding stand. 3,651,787, 3-28-72, Cl. 119-51.
Cooper, Philip H.: *See—*
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Cooper, Ralph F.; and Wagner, Charles J., to Goodrich, B. F., Company, The. Wire overhead. 3,694,283, 9-26-72, Cl. 156-159.000.
Cooper, Ray: *See—*
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Cooper, Robert B., Jr., 1/2 to Sossen, Edwin J. Interdigital preamplifier. 3,673,509, 6-27-72, Cl. 330-31.000.
Cooper, Robert J.; and Carnell, Victor V., to Nobel Metals, Inc. Silver recovery device for photo fixer solutions. 3,663,416, 5-16-72, Cl. 204-272.
Cooper, Robert S.; and Wood, Donald C., to De Soto, Inc. Production of low silica content dry, granular automatic dish washing detergent. 3,682,829, 8-8-72, Cl. 252-99.000.
Cooper, Robin D. G.: *See—*
Murphy, Charles F.; Webber, J. Alan; Kaiser, Gary V.; Van Heyningen, Earle M.; Wright, Ian G.; and Cooper, Robin D. G., 3,641,014.
Cooper, Robin D. G., to Lilly, Eli, and Company. Preparation of cephalosporin sulfoxides. 3,647,786, 3-7-72, Cl. 260-243.
Cooper, Robin D. G., to Lilly, Eli, and Company. Process improvement for converting penicillin sulfoxide esters to cephem compounds. 3,647,787, 3-7-72, Cl. 260-243.
Cooper, Robin D. G.; and Fukuda, David S., to Lilly, Eli, and Company. Thiazoline azetidinones. 3,681,380, 8-1-72, Cl. 260-306.700.
Cooper, Robin D. G., to Lilly, Eli, and Company. Rearrangement of penicillin. 3,705,892, 12-12-72, Cl. 260-239.100.
Cooper, Roy L.; deceased (by Cooper, Alberta M.; heir), 50% to Laseman, Lynn F. Tornado alarm. 3,646,540, 2-29-72, Cl. 340-241.
Cooper, Roy M., to Olin Corporation. Mercury cell having rotating anodes. 3,707,453, 12-26-72, Cl. 204-212.000.
Cooper, Russell B.: *See—*
Gorgei, Donald J.; Weisz, Daniel I.; and Cooper, Russell B., 3,656,607.
Cooper, Russell C. Wall construction. 3,685,241, 8-22-72, Cl. 52-270.000.
Cooper, Sidney. Systems for displaying various phenomena, such as time. 3,651,634, 3-28-72, Cl. 58-50.
Cooper, Stuart B., to Honeywell Information Systems Inc. Communications apparatus for transmitting and receiving synchronous and asynchronous data. 3,681,529, 8-1-72, Cl. 178-70.00r.
Cooper, Thomas A.: *See—*
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Cooper, Thomas Allen: *See—*
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Cooper, Tinsley Laboratories, Inc.: *See—*
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Cooper, Walter C., Jr.: *See—*
McKague, Elbert L., Jr.; and Cooper, Walter C., Jr., 3,663,783.
Cooper, Willard. Food heating device. 3,665,491, 5-23-72, Cl. 219-10.55.
Cooper, William C., to United States of America, Agriculture. Method employing a chemical aid to improve the harvesting of citrus. 3,663,199, 5-16-72, Cl. 71-94.
Cooper, William J., to Mine Safety Appliances Company. Composition for metal plating of plastics. 3,661,783, 5-9-72, Cl. 252-79.2.
Cooper, William W., IV; and Shea, Edward M., to Abcor, Inc. Process for casting integrally supported tubular membranes. 3,676,193, 7-11-72, Cl. 117-94.000.
Cooperman, Michael, to RCA Corporation. High speed set-reset flip-flop. 3,671,768, 6-20-72, Cl. 307-289.000.
Cooperman, Morton: *See—*
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Coopersmith, Leo; and Woodman, Frank H., Jr., to Ives, H. B., Company, The. Door stop and holder. 3,655,228, 4-11-72, Cl. 292-79.
Coopersmith, Leo, to Ives, H. B., Company, The. Door stop and holder. 3,656,787, 4-18-72, Cl. 292-79.000.
Coopersmith, Myron, to Esso Research and Engineering Company. Preparation of diesters. 3,651,102, 3-21-72, Cl. 260-410.6.
Coopersmith, Myron; Rubin, Gerald; and Wickson, Edward J., to Esso Research and Engineering Company. Plasticizers from hindered acid glycol monoesters. 3,652,610, 3-28-72, Cl. 260-410.6.
Cooperstein, Raymond. Method of detecting the presence of a defective lithium aluminate target in-reactor. 3,698,996, 10-17-72, Cl. 176-19.0ld.
Coors, Adolph, Company: *See—*
Bly, Ray E., 3,672,527.
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Treherne, Thomas Harvey; and Coote, Ewart Peter, 3,645,329.
Coover, Harry W., Jr.; and Shields, Donald J., to Eastman Kodak Company. Crystalline polystyrene compositions. 3,639,332, 2-1-72, Cl. 260-33.8.
Cope, Geoffrey W.; and Skinner, George C., to Dresser Industries, Inc. Automatic electric coupler. 3,678,442, 7-18-72, Cl. 339-111.000.
Cope, Geoffrey Wilton, to Dresser Industries, Inc. Automatic coupling system for freight cars. 3,696,941, 10-10-72, Cl. 213-76.000.
Cope, Kenneth P.; and Baer, Donald G., to General Motors Corporation. Control element mounting arrangement. 3,645,353, 2-29-72, Cl. 180-90.
Copeland, Charles R., to General Motors Corporation. Engagement control of friction drives. 3,674,121, 7-4-72, Cl. 192-52.000.
Copeland, Clinton R.: *See—*
McLeod, Garth M.; Copeland, Clinton R.; and Rieger, Gilbert N., 3,675,287.
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Copeland, George G., to Copeland Systems, Inc. Kraft liquor recovery system including physically isolated oxidation and reduction stages. 3,674,630, 7-4-72, Cl. 162-30.000.
Copeland, James L.: *See—*
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Copeland, John A., III, to Bell Telephone Laboratories, Incorporated. Microphane comprising LSA oscillator. 3,649,932, 3-14-72, Cl. 332-2.

Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Domain propagation arrangement. 3,636,531, 1-18-72, Cl. 340m174.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Magnetic domain propagation arrangement. 3,638,205, 1-25-72, Cl. 340-174.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Magnetic domain logic arrangement. 3,641,518, 2-8-72, Cl. 340-174.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Magnetic domain logic arrangement. 3,653,010, 3-28-72, Cl. 340-174.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Multilevel domain propagation arrangement. 3,668,667, 6-6-72, Cl. 340-174.0tf.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Domain logic arrangement. 3,676,871, 7-11-72, Cl. 340-174.0tf.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Stacking arrangement which provides self-biasing for single wall domain organizations. 3,678,478, 7-18-72, Cl. 340-174.0tf.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Single wall domain fanout circuit. 3,680,066, 7-25-72, Cl. 340-174.0tf.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Single wall domain information transfer arrangement. 3,696,347, 10-3-72, Cl. 340-174.0tf.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Single wall domain lateral displacement. 3,699,548, 10-17-72, Cl. 340-174.0tf.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Detector for magnetic domain arrangement. 3,701,128, 10-24-72, Cl. 340-174.0tf.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Self-biasing single wall domain arrangement. 3,701,129, 10-24-72, Cl. 340-174.0tf.
Copeland, John H., to P.T. & T. Industries, Inc. Water cooling tower. 3,669,425, 6-13-72, Cl. 261-79.00a.
Copeland, John S., to Addressograph-Multigraph Corporation. Copy apparatus. 3,702,096, 11-7-72, Cl. 95-89.00r.
Copeland Refrigeration Corporation: *See*—
Gannaway, Edwin L., 3,695,786.
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Copenhaver, John D., to Bethlehem Steel Corporation. Guide for wire drawing. 3,707,085, 12-26-72, Cl. 72-291.000.
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Copier, Harald; and Tonsbeek, Christiaan Herman Theodoor, to Lever Brothers Company. Certain 2-acyl-2-thiazolines. 3,678,064, 7-18-72, Cl. 260-306.7.
Copin, Robert; Sinn, Robert; and Bouilly, Charles, to Societe Chimique des Charbonnages. Production of complex nitrophosphate fertilisers. 3,669,641, 6-13-72, Cl. 71-35.000.
Copine, Fernand: *See*—
Mercier, Jacques H.; Copine, Fernand; and Corbellini, Carlo, 3,675,684.
Coplan, Myron J.; Freeman, Howard I.; and Panto, Joseph S., to Celanese Corporation. Filamentary material. 3,661,853, 5-9-72, Cl. 260-67.
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Copolymer Rubber & Chemical Corporation: *See*—
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Bishop, William A., 3,669,722.
Gerlicher, Robert A., 3,650,952.
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Revell, Don H., Jr.; and Copony, Hans W., 3,656,747.
Copp, Albert R., to Surprenant, Inc. Woven flat conductor. 3,654,381, 4-4-72, Cl. 174-117.
Copp, Albert R. Method for making twisted cable. 3,695,027, 10-3-72, Cl. 57-162.000.
Coppel, Georges, to Constructions Mills-K. Flexible bearing for a conveyor roller capable of being incorporated in a rolling plane. 3,677,382, 7-18-72, Cl. 193-35.00b.
Coppen, Alec James; and Metral, Jean-Pierre, to Delandale Laboratories Limited. Dosage unit sustained release oral powdered lithium salt composition for manic depressive or depressive illness prophylactic therapy. 3,641,236, 2-8-72, Cl. 424-19.
Coppens, Mattheus Johannes Martinus; and Mannaerts, Livinus Eduardus Maria Jozephus, to Inland Steel Company. Disposable liquefied gas container and burner outlet fitting therefor. 3,684,132, 8-15-72, Cl. 222-5.000.
Copper Range Company: *See*—
Finlay, Walter L.; Nayar, Harbhajan S.; and Hay, Donald A., 3,632,697.
Finlay, Walter L.; Fisher, Henry J.; and Hay, Donald A., 3,677,745.
Copping, Keith Philip. Injection moulded plastic cup-like article. 3,679,119, 7-25-72, Cl. 229-1.500.
Coppinger, Eugene A.; and Johnson, Benjamin M., to United States of America, Atomic Energy Commission. Production of uranium and plutonium carbides and nitrides. 3,697,436, 10-10-72, Cl. 252-301.10r.
Coppins, Cray J. Door sill. 3,667,164, 6-6-72, Cl. 49-469.
Coppola, Mario. Device for the automatic molding of paste-like, solidifiable products, such as, for instance, cosmetics and the like. 3,677,677, 7-18-72, Cl. 425-109.000.
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Coran, Aubert Y.; and Vineyard, Billy D., to Monsanto Company. Monosubstituted ureas as fuel additives. 3,677,726, 7-18-72, Cl. 44-71.000.
Coran, Aubert Y.; Kerwood, Joseph E.; and Trivette, Chester D., Jr., to Monsanto Company. 1,4-Bis-(cycloalkylthio)piperazines. 3,681,356, 8-1-72, Cl. 260-268.00s.
Coran, Aubert Y.; and Vineyard, Billy D., to Monsanto Company. Monosubstituted ureas in lubricating compositions. 3,706,667, 12-19-72, Cl. 252-51.50a.
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Corbach, Klaus, to Fischer, Georg, AG. Numerical positional control. 3,672,834, 6-27-72, Cl. 235-151.110.
Corbaz, Andre, to Battelle Memorial Institute. Atomizer. 3,648,929, 3-14-72, Cl. 239-102.
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Corbett, John Frank; and Amery, Geoffrey Wilfred, to Gillette Company, The. Process of synthesizing N-monoalkyl picramic acids. 3,641,154, 2-8-72, Cl. 260-571.
Corbett, Robert Lee, Jr. Centrifugal fan. 3,669,563, 6-13-72, Cl. 415-211.000.
Corbett, Sydney C., to Hockley Chemical Company Limited, The. Apparatus for treating articles with liquid treatment media. 3,693,639, 9-26-72, Cl. 134-69.000.

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Corbin, Dennis D.; Marquardt, Robert F.; and Gabby, John Lester, to Drackett Company, The. Process for preparing a low calorie snack. 3,682,652, 8-8-72, Cl. 99-83.000.
Corbin, Paul. Automobile suspension. 3,692,324, 9-19-72, Cl. 280-96.20r.
Corbin, Ralph L.; Jones, Richard A.; and Byers, Robert G., to General Motors Corporation. Battery cover with integral venting system. 3,666,564, 5-30-72, Cl. 136-170.
Corbin, Raymond Le Rae, to Johns-Manville Corporation. Reinforced fibrous felts for roofing shingle manufacture. 3,707,432, 12-26-72, Cl. 161-141.000.
Corbitt, John Bruce. Weight platform apparatus in a weighing machine. 3,658,144, 4-25-72, Cl. 177-258.
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Cordell Hubert, Sr. Wedge and support for a temporary fence. 3,670,468, 6-20-72, Cl. 52-298.000.
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Cordes, Charles P. Cymbal retainer. 3,705,528, 12-12-72, Cl. 84-421.000.
Cordes, Edward V., Jr., to Warner & Swasey Company, The. Error-compensated position determining. 3,705,400, 12-5-72, Cl. 340-347.00r.
Cordes, Gunter, to Sinol-Arzneimittel Dr. Schwirz GmbH. Coated gelatin capsules and process for producing same. 3,656,997, 4-18-72, Cl. 117-73.000.
Cordes, Henry P., to Basic Vegetable Products Inc. Garlic bulb appendage remover. 3,636,999, 1-25-72, Cl. 146-81.
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Corelli, Robert; and Corelli, Olga V. Litter bags and dispenser combination. 3,655,036, 4-11-72, Cl. 206-57.
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Corey, Garland G.; and Weinstein, Bernard, to American Home Products Corporation. Stabilized oxygen bleach-activator system. 3,661,789, 5-9-72, Cl. 252-186.000.
Corey, Garland G.; and Weinstein, Bernard, to American Home Products Corporation. Oxygen bleach-activator systems stabilized with puffed borax. 3,671,439, 6-20-72, Cl. 252-99.000.
Corey, Joseph T. Fastener means. 3,641,632, 2-15-72, Cl. 24-153.
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Corey, Robert W. Monorail switching device. 3,702,590, 11-14-72, Cl. 104-105.000.
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Corino, Edward R.; and Canevari, Gerard P., to Esso Research and Engineering Company. Gelled floating roof for storage tanks and pits and process for forming same. 3,639,258, 2-1-72, Cl. 252-316.
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Corless, Lee M., to B & J Manufacturing Company, mesne. Tire bead seating and inflation apparatus and method for using same. 3,677,320, 7-18-72, Cl. 157-1.100.
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Corley, Lawrence G.; and Johnson, David W., to Arrow-Hart, Inc. Infinite speed control switching device for use with electric motors in portable tools. 3,648,142, 3-7-72, Cl. 318-345.
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Cormier, Gerald R. Ski board training device. 3,707,283, 12-26-72, Cl. 272-57.00b.

Cormier, Louis A. Curtain rod support. 3,704,851, 12-5-72, Cl. 248-265.000.

Cormier, Roger L.; Sorg, John H., Jr.; and Thorn, Caryl A., to International Business Machines Corporation. Command retry control by peripheral devices. 3,688,274, 8-29-72, Cl. 340-172.500.

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Cornay, Clement J.; Guy, Allen R.; and Young, Warren L., to Dow Chemical Company, The. Chlorinated ethylene polymer compositions for electrical insulation. 3,652,728, 3-28-72, Cl. 260-878.

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Cornelius, Edward B.; and Koester, David W., to Air Products and Chemicals, Inc. Dehydrogenating propane over chromia-alumina catalyst. 3,665,049, 5-23-72, Cl. 260-683.3.

Cornelius, Edward B.; and Koester, David W., to Air Products and Chemicals, Inc. Particles featuring gamma alumina. 3,669,904, 6-13-72, Cl. 252-465.000.

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Cornelius, Gail, to Wade, R. M., & Co. Reversing water motor. 3,687,373, 8-29-72, Cl. 239-191.000.

Cornelius, George W. Evaporative loss control apparatus. 3,640,257, 2-8-72, Cl. 123-136.

Cornelius, George W. Afterburner apparatus having lined burner can. 3,641,768, 2-15-72, Cl. 60-30.

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Cornelius, Richard T., to Cornelius Company, The. Method and apparatus for dispensing a semi-frozen comestible. 3,642,174, 2-15-72, Cl. 222-129.1.

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Cornelius, Werner; and Kaminski, Friedrich, to Cornelius, Werner, KG. Apparatus for burying a plastic drainage pipe line in the ground. 3,706,207, 12-19-72, Cl. 61-72.600.

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Cornelius, William L.; and Martner, John G., to Stanford Research Institute. Multi-station vacuum apparatus. 3,667,424, 6-6-72, Cl. 118-49.500.

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Cornell, Robert G. Display devices. 3,658,413, 4-25-72, Cl. 350-235.000.

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Santry, George J.; and Wecenske, Harold R., 3,672,107.
Schultz, Peter C., 3,690,855.
Shoup, Robert D., 3,678,144.
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Stephenson, Donald A., 3,703,726.
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Weetall, Howard H., 3,652,761.
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Corning, Robert C., Jr., to Sonoco Products Company. Method for forming tubular container body and tubular container body produced thereby. 3,695,971, 10-3-72, Cl. 156-275.000.

Cornish, Alan H.; Helke, Robert C.; Le Donne, Alex N.; and Masters, Hugh E., to Koehler-Dayton, Inc. Microwave sewage system with distillation means. 3,700,565, 10-24-72, Cl. 203-1.000.

Cornish, Blair E.: *See—*
Auletta, Lucien V.; Cornish, Blair E.; Damm, Eugene P., Jr.; Faigenbaum, Mark A.; and Simon, Andrew M., 3,660,263.

Cornish, Blair E.; Damm, Eugene P., Jr.; and Faigenbaum, Mark A., to International Business Machines Corporation. Method of producing insulated wire assemblies. 3,645,873, 2-29-72, Cl. 204-181.

Cornish Containers, Inc.: *See—*
Cornish, Edward; and Liebherr, Harold R., 3,678,703.

Cornish, Edward; and Liebherr, Harold R., to Cornish Containers, Inc. Cold storage carton. 3,678,703, 7-25-72, Cl. 62-371.000.

Cornish, Joseph J., III: *See—*
Barland, Edwin S., Sr.; Cornish, Joseph J., III; and Henrich, Grady B., 3,693,913.

Cornish, Rodney H.; Staulcup, James T.; and Chaney, Richard M., to Belden Corporation. Process of casting filament. 3,672,426, 6-27-72, Cl. 164-5.000.

Cornman, Charles V.: *See—*
Clark, Randall D.; Cornman, Charles V.; and McCullough, Ralph E., 3,649,096.

Cornnuts, Inc.: *See—*
Rock, William A.; and Valleroy, Gustave J., 3,681,084.

Cornsweet, Tom N., to Stanford Research Institute. System and method for scanning the depth of the optic fundus. 3,639,041, 2-1-72, Cl. 351-14.

Cornwell, Charles E., to Bailey, Jennings, Jr., mesne. Method of mixing and placing concrete. 3,669,417, 6-13-72, Cl. 259-147.000.

Cornwell, Charles E.; and Backus, James H., to Bailey, Jennings, Jr., mesne. Method of spraying concrete. 3,669,418, 6-13-72, Cl. 259-147.000.

Cornwell, Charles E., to Bailey, Jennings, Jr., mesne. Method of producing tunnel or the like structure. 3,698,066, 10-17-72, Cl. 29-458.000.

Corodex N.V.: *See—*
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Corometrics Medical Systems, Inc.: *See—*
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Corompt, Antoine, to Marrel, Bennes. Container handling and transporting device. 3,638,817, 2-1-72, Cl. 214-517.

Coronelli, Carolina: *See—*
Thiemann, Josef; Murthy, Yelahanka K. S.; and Coronelli, Carolina, 3,676,490.

Coronelli, Carolina; and Thiemann, Josef. Antibiotic selenomycin. 3,683,074, 8-8-72, Cl. 424-119.000.

Coronelli, Carolina; and Craveri, Renato, to Lepetit S.p.A.-Gruppo per la Ricerca Scientifica e la Produzione Chimica Farmaceutica. Antibiotic substance from a thermophilic actinomycetes. 3,697,646, 10-10-72, Cl. 424-117.000.

Corporacion de Fomento de la Produccion: *See—*
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Corporate Foods Limited: *See—*
Kortschot, Cornelis; and Adams, Peter F., 3,698,914.

Corporation of the City of Coventry: *See—*
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Corporation 'Realisations Ultrasoniques': *See—*
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Corpron, Gary P.: *See—*
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Corr, Hubert: *See—*
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Corr, Hubert; Grosskinsky, Ott-Alfred; Loesch, Norbert; and Pilch, Kurt, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous production of diaminodicyclohexylalkanes. 3,632,648, 1-4-72, Cl. 260-563.

Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Roggero, Arnaldo, to Snam Progetti S.p.A. Covulcanizable mixes comprising diene polymers or copolymers and low unsaturation terpolymers. 3,668,156, 6-6-72, Cl. 260-5.

Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Arrighetti, Sergio, to Snam Progetti S.p.A. Crosslinked terpolymers obtained without sulfur and vulcanizing agents and method for preparing same. 3,691,141, 9-12-72, Cl. 260-80.780.

Corrado, Ronald F. Cover means for navigational instruments and radio equipment mounted on panel of aircraft. 3,699,787, 10-24-72, Cl. 70-58.000.

Corraz, Alfred John: *See—*
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Berger, Leo; and Corraz, Alfred John, 3,654,290.

Correa, Jose A.: *See—*
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Correard, Daniel; Friess, Emmanuel; Salvi, Antoine; and Tregoures, Roger, to Commissariat a l'Energie Atomique. Differential frequency meter. 3,681,689, 8-1-72, Cl. 324-79.00r.

Correia, Yves; and Strini, Jean-Claude, to Produits Chimiques Pechiney-Saint-Gobain. Process for obtaining tetrachloroethanes. 3,637,875, 1-25-72, Cl. 260-658.

Correll, Edward M., to General Electric Company. Electrolytic capacitor with improved seal. 3,684,927, 8-15-72, Cl. 317-230.000.

Correll, Edward Max, to General Electric Company. Metal-to-glass-to-metal hermetic seal. 3,697,823, 10-10-72, Cl. 317-230.000.

Correll, Robert E.: *See—*
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Corrigan, Gordon D., to General Motors Corporation. Transmission control. 3,633,440, 1-11-72, Cl. 74-753.

Corrigan, Gordon D.; Lee, Donald H.; Olsen, Howard E.; and Petry, Robert J., to General Motors Corporation. Drive mode selection system for transmissions. 3,695,121, 10-3-72, Cl. 74-753.000.

Corrigan, Harry G. Cameras. 3,673,943, 7-4-72, Cl. 95-24.000.

Corrigan, John R.; and Coates, William M., to Mead Johnson & Company. Oxidation process employing dipyridinium dichromate. 3,641,058, 2-8-72, Cl. 260-340.5.

Corrigan, Matthew J., Jr.; deceased (by Corrigan, Sandra Lee; executrix), to Electronic Products Corporation. Differential time television system. 3,679,823, 7-25-72, Cl. 178-6.6dd.
Corrigan, Richard A.: *See—*
Jacobs, John H.; and Corrigan, Richard A., 3,661,586.
Corrigan, Sandra Lee: *See—*
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Corrin, Myron L., to Phillips Petroleum Company. Pelleted carbon black containing surfactant. 3,691,071, 9-12-72, Cl. 252-8.55d.
Corringer, Jean; and Fourreau, Jean, to Esso Chimie. Process for making detergent inhibiting additives. 3,654,152, 4-4-72, Cl. 252-32.7.
Corringer, Jean, to Esso Research and Engineering Company. High alkalinity additives for lubricating oil compositions. 3,671,430, 6-20-72, Cl. 252-32.70e.
Corris, Charles J., to Product Development Services, Inc. Circuit and method for detecting localized noise level changes and especially electromagnetic noise. 3,634,843, 1-11-72, Cl. 340-258.
Corriston, Winfield F., to Johns-Manville Corporation. Insulated conduit fitting assembly. 3,645,564, 2-29-72, Cl. 285-47.
Corriston, Winfield F.; and Heisler, Robert W., to Johns-Manville Corporation. Pipe coupling. 3,682,502, 8-8-72, Cl. 285-235.000.
Corrodi, Hans Hudolf: *See—*
Carlsson, Per Arvid Emil; Corrodi, Hans Hudolf; Florwall, Gosta Linnart; and Ross, Svante Bertil, 3,644,623.
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Hasbrouck, Gene B.; and Green, Alan L., 3,687,089.
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Corsette, Douglas F., to Diamond International Corporation. Cartridge valve dispenser with pressure regulating valve. 3,669,316, 6-13-72, Cl. 222-143.000.
Corsmeier, Robert J.; Howell, Thomas G.; Corrigan, Charles E.; and Koff, Bernard L., to General Electric Company. Turbomachinery blade structure. 3,700,348, 10-24-72, Cl. 416-90.000.
Corson, Bolton L.; and Royer, Budd R., to Corson, G. & W. H., Inc. Method and apparatus for calcining particulate mineral materials. 3,643,932, 2-22-72, Cl. 263-21.
Corson, Carl Rutherford: *See—*
Scott, Howard Mulder; and Corson, Carl Rutherford, 3,638,214.
Corson, Claude E., to Coachmen Industries, Inc. Tailgate bumper mount. 3,695,666, 10-3-72, Cl. 293-73.000.
Corson, Fred P.: *See—*
Pews, R Garth; and Corson, Fred P., 3,641,004.
Pews, Richard Garth; Corson, Fred P.; and Nyquist, Edwin B., 3,654,334.
Corson, Frederick P., to Dow Chemical Company, The. Curable compositions comprising a polyepoxide, a polyisocyanato silane and a catalyst therefor. 3,679,630, 7-25-72, Cl. 260-47.0en.
Corson, G. & W. H., Inc.: *See—*
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Corte, Francisco Barcelloni. Manual labeling device. 3,704,771, 12-5-72, Cl. 197-6.700.
Corte, Herbert; and Meyer, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Anion exchanger with sponge structure. 3,637,535, 1-25-72, Cl. 260-2.1.
Corte, Herbert; and Heller, Harold, to Farbenfabriken Bayer Aktiengesellschaft. Crosslinked acrylonitrile copolymers. 3,687,912, 8-29-72, Cl. 260-80.810.
Corteel, Philippe, to British Petroleum Company Limited, The. Recovery of nitrogenous material from micro-organisms. 3,645,845, 2-29-72, Cl. 195-4.
Cortes, Abel C., to Compagnie Francaise des Petroles. Drilling tool with elements having diamond-studded attack surface. 3,693,735, 9-26-72, Cl. 175-329.000.
Cortes, Abel C., to Compagnie Francaise des Petroles, Societe Anonyme. Diamond-studded drilling tool. 3,696,875, 10-10-72, Cl. 175-329.000.
Cortez, Jose L. Copying lathe. 3,635,265, 1-18-72, Cl. 142-38.
Corth, Richard; and Michael, Jacob F. Method of making an undistorted coiled-coil tantalum carbide filament. 3,650,850, 3-21-72, Cl. 148-13.1.
Corti, Costante: *See—*
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Cerutti, Giovanni; Costa, Armando; and Cortona, Alessandro, 3,682,414.
Cortona, Alessandro; and Musso, Pietro, to Olivetti, Ing., C., & C., S.p.A. Line-spacing mechanism for a teleprinter or similar printing machine. 3,637,061, 1-25-72, Cl. 197-114.
Cortona, Alessandro; and Calano, Giuseppe, to Olivetti, Ing., C., & C., S.p.A. Electromechanical transducer for selecting printing elements. 3,641,269, 2-8-72, Cl. 178-27.
Cortona, Alessandro; Musso, Pietro; Saltini, Fabrizio; and Fiorenza, Giorgio, to Olivetti, Ing., C., & C., S.p.A. Machine for processing magnetic ledger cards. 3,641,317, 2-8-72, Cl. 235-61.11.
Cortona, Alessandro; and Musso, Piero, to Olivetti, Ing., C., & C., S.p.A. Front feeding device for an accounting or like machine. 3,653,482, 4-4-72, Cl. 197-128.
Cortona, Alessandro; and Musso, Piero, to Olivetti, Ing., C., & C., S.p.A. Paper feed system for accounting machines. 3,653,483, 4-4-72, Cl. 197-129.
Cortorillo, Salvatore; Shaffer, George A.; and Strauss, Herbert S., to Duro-Test Corporation. Liquid cooled electrode for high pressure compact arc. 3,636,401, 1-18-72, Cl. 313-352.
Corum, Tillman L.: *See—*
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Corvetti, Patrick T. Work and safety lamp. 3,676,664, 7-11-72, Cl. 240-6.40w.
Corvi, Antonio. Footwear for surgeons. 3,648,390, 3-14-72, Cl. 36-3.
Corvi, Joseph A.; and Lawrence, William G., to Corvonics Corporation. Device to detect motion. 3,673,590, 6-27-72, Cl. 340-258.00a.
Corvonics Corporation: *See—*
Corvi, Joseph A.; and Lawrence, William G., 3,673,590.
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Corwin, Harry L. Shaft feeding apparatus. 3,656,357, 4-18-72, Cl. 74-89.
Corwin, Howard R.; Hermes, Walter L.; and Jones, Charles, to Curtiss-Wright Corporation. Torsionally resilient drive mechanism. 3,691,792, 9-19-72, Cl. 64-31.000.
Corwin, Howard Russell, to Curtiss-Wright Corporation. Liquid metering device having an automatically variable discharge. 3,639,082, 2-1-72, Cl. 417-214.
Corwin, Merton D.; and Dietrich, Walter E., to Baldwin, D. H., Company. Hammer butt with adjustable hammer shank. 3,651,733, 3-28-72, Cl. 84-243.
Cory Corporation: *See—*
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Seil, Lewis W., 3,671,023.
Cory, Terry S.; and Kennedy, William A., to Collins Radio Company. HF Broadband omnidirectional antenna. 3,683,390, 8-8-72, Cl. 343-792.500.
Cory, Terry S.; and Markley, Roger A., to Collins Radio Company. High gain two bay unidirectional broadband antenna. 3,696,430, 10-3-72, Cl. 343-792.500.
Cory, Terry S.; and Markley, Roger A., to Collins Radio Company. Rotatable bi-planar series-fed log-periodic HF antenna. 3,697,999, 10-10-72, Cl. 343-763.000.
Cory, Victor W.; Williams, Edgar E.; and Howard, Robert J., to Moorman Manufacturing Company. Hinge mechanism for a cover plate in an animal feeder. 3,670,702, 6-20-72, Cl. 119-52.00r.
Coryell, Vincent: *See—*
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Corzine, Luke H., to Unicor Inc. Method of fabricating cellular foam core structure assembly. 3,658,612, 4-25-72, Cl. 156-93.
Corzine, Robert G.; and Mosko, Joseph A., to United States of America, Navy. Direction finding antenna system. 3,683,385, 8-8-72, Cl. 343-113.00r.
Cosan Chemical Corporation: *See—*
Leebrick, John R., 3,661,887.
Cosand, Neal H.: *See—*
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Cosby, Henry L., to Clark Equipment Company. Lift truck with overhead guard and counterweight. 3,687,484, 8-29-72, Cl. 280-150.00c.
Coscia, Anthony Thomas; and Ross, Joseph Hansbro, to American Cyanamid Company. Water-soluble latent cross-linking agents. 3,634,399, 1-11-72, Cl. 260-239.

Coscia, Anthony Thomas; and Williams, Laurence Lyman, to American Cyanamid Company. Pulping of wet strength broke containing polyvinylamide-glyoxal resin. 3,658,640, 4-25-72, Cl. 162-4.
Cosden Oil & Chemical Company: *See—*
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Brown, Rene P.; Allison, Birt, Jr.; and Meek, Paul D., 3,639,490.
Hahn, Granville J., 3,632,369.
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Cosden Oil & Chemical Company, mesne: *See—*
Vanderlinden, Andre Jacques Emile; and Stubbe, Gilbert Jules Ghislain, 3,637,356.
Cosentino, Louis Ciro, to Hoffmann-La Roche Inc. Metal-metal salt electrode and method for making the same. 3,662,745, 5-16-72, Cl. 128-2.
Cosenza, Frank J., to Tridair Industries. Lock nut member. 3,702,628, 11-14-72, Cl. 151-21.00b.
Cosgrove, Albert S.: *See—*
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Cosgrove, Charlotte E.: *See—*
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Cosgrove, James F.: *See—*
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Cosgrove, John Travers; and Drake, Ronald, to British Railways Board and Shaw, Joshua, & Sons Limited. Fork lift load handling devices. 3,684,114, 8-15-72, Cl. 214-654.000.
Cosgrove, Richard E.; Krull, Irwin H.; and Mask, Charles A., to Beckman Instruments, Inc. Electrochemical electrode. 3,706,649, 12-19-72, Cl. 204-195.00m.
Coshow, Chester L. Depth gauging means for fishing reels. 3,666,197, 5-30-72, Cl. 242-84.1.
Coshow, Chester L. Washing machine. 3,683,647, 8-15-72, Cl. 68-23.200.
Cosman, Cornelius M.; and Buker, Donald O., to American Metal Climax, Inc. Dephosphorization of ferrophosphorus. 3,699,213, 10-17-72, Cl. 423-322.000.
Cosme, Peter Anthony: *See—*
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Davey, Peter Gordon, 3,691,821.
Cosmopolitan Textile Company Limited: *See—*
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Cosp, Enrique A. Toy and delayed release propelling mechanism therefore. 3,670,453, 6-20-72, Cl. 46-202.000.
Cospen, Jean; and Baumann, Bernard, to Cebal GP. Easy-opening stopper for metal cans and the like. 3,682,349, 8-8-72, Cl. 220-42.00b.
Coss, Richard E.; and Harper, Willard J., to Carborundum Company, The. Continuous treating apparatus. 3,690,068, 9-12-72, Cl. 51-13.000.
Cossaart, Darrel D.: *See—*
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Cossar, Bernard C.; and Reynolds, Delbert D., to Eastman Kodak Company. Photographic bleaching and antifogging agents. 3,671,259, 6-20-72, Cl. 96-109.000.
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Cosserat, David C.: *See—*
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Costa, Allan A. Double dispensing applicator with twin reservoirs. 3,690,777, 9-12-72, Cl. 401-17.000.
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Costa, Armando; and Cerutti, Giovanni, to Olivetti, Ing. C., & C., S.p.A. High-speed tape perforator. 3,707,262, 12-26-72, Cl. 234-119.00.
Costa, Charles; Loupere, Andre; Monsel, Philippe; and Schmitt, Bertrand, to Commissariat a l'Energie Atomique. Automatic alignment bearings for guiding in translational or rotational motion. 3,679,272, 7-25-72, Cl. 308-9.000.
Costa, Eugen; Covaci, Ioan; and Surca, Gheorghe, to Clinica si Policlinica de Stomotologie Ortopedica. Method of making dental bridges, dental crowns, and dental corono-radicular retainers. 3,636,632, 1-25-72, Cl. 32-5.
Costa, Eugen; Ene, Lucian; Dumitrescu, Stelica; and Covaci, Ioan, to Policlinica de Stomatologie Protetica. Method of fabricating dental crowns and bridges from gold. 3,695,333, 10-3-72, Cl. 164-35.000.
Costa, Frank. Golf ball tee. 3,690,676, 9-12-72, Cl. 273-202.000.
Costa, Philip Joseph, to Caterpillar Tractor Company. Control system for inertia welding machines. 3,680,760, 8-1-72, Cl. 228-2.000.
Costa, Robert B., to Rain Bird Sprinkler Mfg. Corporation. Self-cleaning spray deflector. 3,658,252, 4-25-72, Cl. 239-230.
Costachescu, Carol: *See—*
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Costanza, Carl C.; Weber, Walter W.; Betlejewski, Frank W.; and Frystak, Richard, to Bell & Howell Company. Slide transport device. 3,659,934, 5-2-72, Cl. 353-103.
Costanza, John R.; and Eisen, Bruce M., to Celanese Corporation. Selectively dispersible sanitary structures. 3,707,430, 12-26-72, Cl. 161-123.000.
Costanzo, Nicholas J., Jr.: *See—*
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Costanzo, Nicholas Joseph, Jr., to Costanzo, Nicholas J., Jr. and Etelson, Jerome H.; trading as Etelson, Costanzo & Associates. Louvers. 3,653,317, 4-4-72, Cl. 98-110.
Coste, Jean-Noel: *See—*
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Costello, Bernard J., to Angus Engineering Company, Inc. Conveyor for fusing and heating systems. 3,655,173, 4-11-72, Cl. 263-8.
Costello, Bernard J., to Argus Engineering Company, Inc. Heating apparatus having simplified focussing means. 3,661,369, 5-9-72, Cl. 263-2.
Costello, Bernard J., to Argus Engineering Company, Inc. Heating and fusing device. 3,674,974, 7-4-72, Cl. 219-85.000.
Costello, Christopher Hollet, to Colgate-Palmolive Company. Eye-spraying device having mirror. 3,640,274, 2-8-72, Cl. 128-173.
Costello, Christopher Hollet, to Colgate-Palmolive Company. Safety heater for pressure dispensed product. 3,644,707, 2-22-72, Cl. 219-302.
Costello, Edward, Jr.; Cooper, Joseph S.; and Dunlap, Harold E., to Lodding Engineering Corporation. Extended-Life doctoring apparatus. 3,688,336, 9-5-72, Cl. 15-256.510.
Costello, John P.: *See—*
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Costello, Paul A.: *See—*
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Costello, Raymond M.; and Beckman, Eugene B., to Foster Wheeler Corporation. Steam temperature control spray system. 3,640,250, 2-8-72, Cl. 122-406.
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Coster, Maurice Simon, to Borden, Inc. Interlockable confection bars. 3,663,717, 5-16-72, Cl. 99-137.
Coster Tecnologie Speciali S.p.A.: *See—*
Ruscitti, Tomasco, 3,675,832.
Ruscitti, Tomaso, 3,637,065.
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Costianes, Peter J., to United States of America, Air Force. Apparatus for taking photographs at times of minimum image motion. 3,690,234, 9-12-72, Cl. 95-11.000.
Coston, Ostis D. Meter and service connector for electric service reconversion systems. 3,643,209, 2-15-72, Cl. 339-155.
Coston, Ronald Francis: *See—*
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Cosyns, Jean; and Duhaut, Pierre, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process for regenerating nickel and cobalt hydrogenation catalyst. 3,661,798, 5-9-72, Cl. 252-416.
Cotabish, Harry N.; Wise, Layton A.; and Buban, Elmer E., to Mine Safety Appliances Company. Emergency breathing apparatus. 3,655,346, 4-11-72, Cl. 23-281.
Cotabish, Harry N., to Mine Safety Appliances Company. Fresh air respirator. 3,683,907, 8-15-72, Cl. 128-145.000.
Cote, Alfred A., to Philco-Ford Corporation. Tuner drive apparatus. 3,668,924, 6-13-72, Cl. 74-10.700.
Cote, Delmer J. Dry wall tape folder that folds tape for corners when taping sheet rock. 3,681,175, 8-1-72, Cl. 156-576.000.

Cote, Martin J., to Singer Company, The, mesne. Transducer head actuator for magnetic disc memory. 3,651,501, 3-21-72, Cl. 340-174.1.
Cote, Paul T.: *See—*
Kornrumpf, William P.; and Cote, Paul T., 3,668,468.
Watrous, Donald L.; and Cote, Paul T., 3,676,045.
Cote, Raymond A., to Riegel Paper Corporation. Reclosable composite package. 3,669,345, 6-13-72, Cl. 229-51.0ts.
Cotelle, Marie-Josephe. Decorative building element. 3,640,796, 2-8-72, Cl. 161-43.
Cotey, John. Viscous governor device. 3,688,626, 9-5-72, Cl. 84-95.000.
Cother, Robert H., to Becton, Dickinson Electronics Company. Machine tool monitoring system. 3,689,839, 9-5-72, Cl. 324-181.000.
Cothran, Samuel Bynum; and Henry, Colin Alexander, to Du Pont de Nemours, E. I., and Company, mesne. Packaging rolls with improved end-suspension support panels. 3,685,644, 8-22-72, Cl. 206-59.00f.
Coto-Coil Co., Inc.: *See—*
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Cotsalas, Stephen N.: *See—*
Carrano, Andrew J., Jr.; Cotsalas, Stephen N.; and Jacobson, John E., 3,679,208.
Cotta, Ernesto: *See—*
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Cotta Ramusino, Francesco: *See—*
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Cottam, Alfred E., to Westinghouse Electric Corporation. Controlled vent for isotope fuel capsule. 3,633,033, 1-4-72, Cl. 250-106.
Cottam, Alfred E.; Chi, John W. H.; Kim, Chang-Kyo; and Flaherty, Robert, to United States of America, Atomic Energy Commission, mesne. Radioisotopic power source. 3,638,023, 1-25-72, Cl. 250-106.
Cottatellucci, Ezio, to Societa Italiana Telecomunicazioni Siemens S.p.A. Electronic switching arrangement. 3,657,562, 4-18-72, Cl. 307-243.
Cottell, Eric C. Hand-held air compressor and liquid spray device. 3,696,973, 10-10-72, Cl. 222-193.000.
Cotter, Anthony P. Product depletion indicator for refrigerators. 3,689,909, 9-5-72, Cl. 340-272.000.
Cotter, John J., to E&M Laboratories. Waveguide ferrite circulator having conductive side of dielectric disc in contact with ferrite. 3,662,291, 5-9-72, Cl. 333-1.1.
Cotter, John J.; and Abronson, Charles J., to E & M Laboratories. High speed circulator switch. 3,684,983, 8-15-72, Cl. 333-1.100.
Cotter, Robert J.: *See—*
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Cotter, William L., to Itek Corporation. Split electrode gas cell. 3,636,405, 1-18-72, Cl. 315-169.
Cotterill, Joseph Hobson. Hydrodynamic torque converters. 3,688,493, 9-5-72, Cl. 60-12.000.
Cotterman, James W.: *See—*
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Cottis, Steve G.: *See—*
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Nowak, Bernard E.; Cottis, Steve G.; Economy, James; and Steiner, Paul J., 3,644,593.
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Cottis, Steve G.; Economy, James; and Nowak, Bernard E. p-Oxybenzoyl copolyesters. 3,637,595, 1-25-72, Cl. 260-47.
Cottis, Steve G.; Nowak, Bernard E.; and Economy, James, to Carborundum Company, The. Polyester coated wire. 3,669,738, 6-13-72, Cl. 117-232.000.
Cottle, John E.: *See—*
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Cottle, John E., to Phillips Petroleum Company. Separating p-dichlorobenzene from N-methyl pyrrolidone by steam distillation. 3,658,659, 4-25-72, Cl. 203-76.
Cottle, John E. Hydrogenation of oxidative dehydrogenation by-product. 3,692,859, 9-19-72, Cl. 260-680.00e.
Cotton, Charles C.: *See—*
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Cotton, Curran D., to Maytag Company, The. Dryer control system. 3,647,196, 3-7-72, Cl. 263-33.
Cotton, Curran D., to Maytag Company, The. Convertible token-actuated control system. 3,685,626, 8-22-72, Cl. 194-4.00c.
Cotton, Cyril Ivan: *See—*
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Cotton, Incorporated: *See—*
Gamarra, Jose P.; Swidler, Ronald; and Wilson, Katherine W., 3,653,805.
Getchell, Nelson F.; Berch, Julian; and Hollies, Norman R.S., 3,642,428.
Jones, Joseph Kennedy; and Smith, Milton Louis, 3,703,966.
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Vehe, Dennis A.; Porterfield, Jay G.; and Roth, Lawrence O., 3,679,132.
Cotton, James E., 30% to Dimit, Richard J. Method of making a flume. 3,632,730, 1-4-72, Cl. 264-295.
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Cotton, John M.: *See—*
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Cotton, John Michael; and Lloyd, Peter Anthony, to Plessey BTR Limited. Data transmission systems. 3,680,053, 7-25-72, Cl. 340-172.500.
Cotton, John W.: *See—*
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Cotton, Joseph Bernard; Bennett, William Raymond; Bell, John Alan; and Hayfield, Peter Charles Steele, to Imperial Metal Industries (Kynoch) Limited. Method of making an electrode. 3,645,862, 2-29-72, Cl. 204-56.
Cotton, Richard A.: *See—*
Cotton, Sidney S.; and Cotton, Richard A., 3,638,782.
Cotton, Robert B., to All American Industries, Inc. Energy absorbing rotary piston pump. 3,655,303, 4-11-72, Cl. 418-61.
Cotton, Ronald K.; and Rae, Barney O., to Cutler-Hammer, Inc. Storage and retrieval system with a motor current sensing to detect obstructions. 3,677,420, 7-18-72, Cl. 214-16.40a.
Cotton, Sidney S.; and Cotton, Richard A. Tractor mounted grain auger. 3,638,782, 2-1-72, Cl. 198-233.
Cotton Silk and Man-Made Fibres Research Association, The: *See—*
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Cottrell, Samuel H.; and Montgomery, Sam R., to White Farm Equipment Company. Deadman seat actuated brake and handbrake construction. 3,664,453, 5-23-72, Cl. 180-101.
Cottrell, Samuel H., to White Farm Equipment Company. Deadman seat actuated brake. 3,664,454, 5-23-72, Cl. 180-101.000.
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Cotugno, Dolores. Method of forming a ruffle or the like. 3,674,187, 7-4-72, Cl. 223-46.000.
Coty, Vernon F.; Heilweil, Israel J.; and Leavitt, Richard I., to Mobil Oil Corporation. Process for growing cells of a microorganism on a carbon-containing liquid substrate. 3,672,953, 6-27-72, Cl. 195-28.000.
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Couch, Francis O. Logic circuit delay system comprising monostable means for providing different time delays for positive and negative transitions. 3,661,026, 5-9-72, Cl. 307-254.
Couch, Francis O., to GTE Automatic Electric Laboratories Incorporated. Logic circuit delay system comprising monostable means for providing different time delays for positive and negative transitions. 3,668,423, 6-6-72, Cl. 307-208.
Couch, Richard W., Jr.; and Dean, Robert C., Jr., to Chemetron Corporation, mesne. Plasma arc torch having liquid laminar flow jet for arc constriction. 3,641,308, 2-8-72, Cl. 219-121.
Couch, Robert O.: *See—*
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Coucoulas, Alexander. Device for bonding with a compliant medium. 3,650,454, 3-21-72, Cl. 228-1.
Coucoulas, Alexander, to Western Electric Company, Incorporated. Assembly including carrier for devices. 3,655,177, 4-11-72, Cl. 269-1.
Coucoulas, Alexander, to Western Electric Company, Incorporated. Bonding with a compliant medium. 3,669,333, 6-13-72, Cl. 228-3.000.
Coughlan, Edward H., to Polaroid Corporation. Drive system for a reflex member. 3,673,935, 7-4-72, Cl. 95-11.00r.
Coughlan, Edward R., to Polaroid Corporation. Photographic apparatus with dynamically controlled reflex action. 3,685,416, 8-22-72, Cl. 95-42.000.

Coughlin, Charles P.: *See—*
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Coughlin, Stephen A.: *See—*
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Coughran, Samuel J., Jr., to Rome Industries, Incorporated. Rotary cutter mechanism. 3,653,193, 4-4-72, Cl. 56-10.7.
Couland, Roger, to Societe de Conditionnement en Aluminium SCAL GP. Flexible tubes. 3,661,301, 5-9-72, Cl. 222-92.
Couland, Roger, to Societe de Conditionnement en Aluminum. Apparatus for tapering flexible metal tubes. 3,698,221, 10-17-72, Cl. 72-62.000.
Coulomb, Jean Marie Louis: *See—*
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Coulombe, Raymond Francis, to Dart Industries Inc. Dip coating machine. 3,673,984, 7-4-72, Cl. 118-416.000.
Coulon, Edward I.; Miller, Benny Jay; and Mohr, Dale C., to Vogel Tool and Die Corporation. Apparatus for piercing openings in tubing. 3,698,274, 10-17-72, Cl. 83-188.000.
Coulson, Dale Robert, to Du Pont de Nemours, E. I., and Company. 2-Methyl-3-methylene-1,5,7-octatriene, its oligometer, and its preparation from allene and butadiene with palladium(O) catalysts. 3,691,250, 9-12-72, Cl. 260-677.00r.
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Coult, Roger L.: *See—*
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Coulter, Earl E.; Hemker, Fritz L.; and Kazmierski, Elias A. Pulverized fuel delivery system for a blast furnace. 3,689,045, 9-5-72, Cl. 266-28.000.
Coulter Electronics Inc.: *See—*
Claps, William A., 3,688,191.
Coulter, Wallace H.; and Hogg, Walter R., 3,686,486.
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Coulter, Stanley M.; and Mevissen, Ernst A., to Dravo Corporation. Nose ring for metallurgical processing vessels. 3,679,195, 7-25-72, Cl. 266-35.000.
Coulter, Wallace H.; and Hogg, Walter R., to Coulter Electronics, Inc. Apparatus for obtaining statistical hematological indices and analyzing same and method. 3,686,486, 8-22-72, Cl. 235-151.300.
Coulthard, Douglas, to Polymer Corporation Limited. Diene/nitrile elastomeric blends. 3,644,590, 2-22-72, Cl. 260-894.
Coulthart, Hugh K.: *See—*
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Countryman, Albert J., to Ty-Lok Assembly Systems, Inc. Strapping apparatus. 3,633,633, 1-11-72, Cl. 140-93.2.
Countryman, James H. Mixing valve. 3,656,512, 4-18-72, Cl. 137-625.4.
Coupat, Bernard; and Musikas, Claude, to Commissariat a l'Energie Atomique. Process for the separation of elements of the lanthanide group and elements of the transplutonium group which are present in an aqueous solution. 3,692,500, 9-19-72, Cl. 23-338.00.
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Couquet, Pierre Jean. Pile or plastic tiles for flooring and like applications. 3,694,983, 10-3-72, Cl. 52-384.000.
Courbon, Paul, to Charbonnages de France. Humid de-dusting device for gas-conveyor conduits. 3,703,800, 11-28-72, Cl. 55-238.000.
Couret, Robert F.: *See—*
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Court, Charles T. Vertically sliding door mounted in horizontally pivoted frame. 3,693,693, 9-26-72, Cl. 160-195.000.
Court, Donald B.: *See—*
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Court, Kenneth, to Sperry Rand Corporation. Power transmission. 3,631,763, 1-4-72, Cl. 91-506.
Court, Kenneth, to Sperry Rand Corporation. Power transmission. 3,650,107, 3-21-72, Cl. 60-53.
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Courtenay, Jerzy Leon; and Neal, Francis John, to Hobson, H. M., Limited. Plural drive with differential brakes. 3,631,944, 1-4-72, Cl. 192-3.
Courtens, Eric L., to International Business Machines Corporation. Optical pulse doubler utilizing self-induced transparency. 3,650,600, 3-21-72, Cl. 350-151.
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Courtney, John J. Ladder attachment. 3,653,462, 4-4-72, Cl. 182-108.

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Courtney-Pratt, Jeofry Stuart, to Bell Telephone Laboratories, Incorporated. Image retaining panel impervious to ambient light. 3,665,237, 5-23-72, Cl. 313-108.
Courtois, Donald A., to Bendix Corporation, The. Portable X-ray generating machine. 3,643,094, 2-15-72, Cl. 250-87.
Coury, Arthur J., to General Mills Chemicals, Inc. Organic isocyanate preparation. 3,707,496, 12-26-72, Cl. 260-453.00p.
Couser, Chester F. Implement hinge. 3,680,172, 8-1-72, Cl. 16-163.000.
Cousin, Barry D., to Plas/Steel Products, Inc. Method for assembling a line guide to a fishing rod. 3,651,561, 3-28-72, Cl. 29-450.
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Cousino, Ralph E., to Orrtronics, Inc. Tape cartridge. 3,685,754, 8-22-72, Cl. 242-55.19a.
Cousino, Walter Frank, to Thermad, Inc. Impact actuated mowing machine. 3,657,868, 4-25-72, Cl. 56-26.500.
Cousins, Morison S.; Klawson, Rennold L.; and Watson, Roy, to General Foods Corporation. Cup with pour spout and circular finish. 3,700,146, 10-24-72, Cl. 222-465.000.
Cousins, Nicholas T., to Avco Corporation. Borescope fixture. 3,690,775, 9-12-72, Cl. 356-241.000.
Cousins, Richard C.: *See—*
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Coussell, Ivan John; and Pattison, Roy, to Pye Limited. Receiver alarm system. 3,689,843, 9-5-72, Cl. 325-302.000.
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Couttet, James, to Societe Anonyme de Recherches de Mechanique. Grip for ski-sticks and the like. 3,662,433, 5-16-72, Cl. 24-68.0as.
Couture, John W., to Automation Industries, Inc. Magnetic pulser circuit for material tester. 3,673,859, 7-4-72, Cl. 73-67.80r.
Couture, Roger A.; and Lajza, John J., Jr., to International Business Machines Corporation. Etching completion indication. 3,642,549, 2-15-72, Cl. 156-24.
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Coveney, Donald B.; and Ouellette, Roland J., to Canadian International Paper Company. Apparatus for detecting surface variations. 3,650,036, 3-21-72, Cl. 33-174.
Coventry Gauge & Tool Company Limited: *See—*
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Cover, Lloyd W., Jr.; and Webb, Charles C., to Du Pont de Nemours, E. I., and Company. Apparatus for compressing and cooling fiber batts. 3,671,365, 6-20-72, Cl. 156-580.000.
Cover, Paul F.; Rife, John W.; Kemper, Clyde F.; and Reed, Donald E. Corn cutting machine and method. 3,685,519, 8-22-72, Cl. 130-9.00a.
Cover, Peter H.; and Gilbert, Jack J., to Arcata Microfilm Corporation, mesne. Apparatus for making microfiche. 3,634,176, 1-11-72, Cl. 156-580.
Covert, Frederick M. Frame mounted camper hold-down. 3,706,469, 12-19-72, Cl. 296-23.0mc.
Covey, Gordon W. Mill. 3,680,797, 8-1-72, Cl. 241-73.000.
Covey, Gordon W. Cutter assembly. 3,688,624, 9-5-72, Cl. 83-596.000.
Covey, Rupert A.; von Schmeling, Bogislav; and Crittendon, Charles E., to Uniroyal, Inc. Method for killing meristematic buds. 3,690,861, 9-12-72, Cl. 71-76.000.
Covey, Rupert A.; Von Schmeling, Bogislav; and Crittendon, Charles E., to Uniroyal, Inc. Alkyl keto-alkyl sulfites and their uses. 3,707,363, 12-26-72, Cl. 71-78.000.
Coviello, Joseph: *See—*
Procter, James F.; Mebus, Henry R.; De Young, Robert J.; and Coviello, Joseph, 3,701,176.
Coville, William W., to Pitney-Bowes, Inc. Oscillatable ink pad and print member. 3,706,274, 12-19-72, Cl. 101-333.000.
Covington, Cecil E.: *See—*
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Covington, Loren C., to Titanium Metals Corporation. Method of electrolytic descaling and pickling. 3,632,490, 1-4-72, Cl. 204-141.
Covini, Lorenzo, to Cober Fabbrica Articoli Sportivi. Safety ski binding. 3,695,623, 10-3-72, Cl. 280-11.350.
Covitz, Frank H.; and Carrubba, Robert V., to Union Carbide Corporation. Electrochemical conversion of phenol to hydroquinone. 3,663,381, 5-16-72, Cl. 204-78.
Cowan, Arnold A., to Bobrick Aero Missile Products. Composite construction for nipple used in ground starting for jet engines. 3,701,552, 10-31-72, Cl. 285-158.000.
Cowan, Ben. Screen impeller. 3,637,077, 1-25-72, Cl. 209-273.
Cowan, Ben. Pulp screening machine. 3,664,501, 5-23-72, Cl. 209-273.000.
Cowan, Everett C.: *See—*
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Cowan, Frank O. Cattle spraying device. 3,699,928, 10-24-72, Cl. 119-159.000.
Cowan, George R.: *See—*
Balchan, Anthony S.; and Cowan, George R., 3,667,911.
Cowan, James H., Jr.; and Rostoker, David, to Corning Glass Works. Batch for producing cellulated glassy bodies from rock. 3,666,506, 5-30-72, Cl. 106-41.000.
Cowan, John G., to United States of America, Navy. Display for multi channel sonars. 3,701,089, 10-24-72, Cl. 340-3.00r.
Cowan, Lee R., to C.R.C. Industries. Bearing assembly. 3,655,226, 4-11-72, Cl. 287-119.
Cowan, Philip L., to Electrogasdynamics, Inc. Electrostatic paint spray system. 3,645,447, 2-29-72, Cl. 239-15.
Cowan, Philip L. Electro-gasdynamic power generation. 3,651,354, 3-21-72, Cl. 310-10.
Cowan, Philip L., to Electrogasdynamics, Inc. Electrostatic spray gun construction. 3,653,592, 4-4-72, Cl. 239-15.
Cowan, Philip L., to Electrogasdynamics, Inc. Electrostatic spray coating apparatus. 3,693,877, 9-26-72, Cl. 239-15.000.
Cowan, Richard L., to Whirlpool Corporation. Combination drain manifold and self-cleaning filter. 3,681,947, 8-8-72, Cl. 68-18.00f.
Cowan, Stanley W.: *See—*
Burness, Donald M.; Cowan, Stanley W.; and Wright, Charles J., 3,642,908.
Cowan, Wavell Frederick. Apparatus for testing the tensile strength of sheet material. 3,707,119, 12-26-72, Cl. 73-95.000.
Cowans, Kenneth W., to Sub-Marine Systems Incorporated. Gas and liquid processing system. 3,699,775, 10-24-72, Cl. 62-55.000.
Coward, Charles, Jr. Air distribution/filtration device for clean rooms. 3,688,477, 9-5-72, Cl. 55-418.000.
Cowdrey, Roy M., to Singer Company, The. Self propelled pinking device. 3,668,780, 6-13-72, Cl. 30-178.
Cowdrey, Roy M.; and Current, Wayne A., to Singer Company, The. Pedestal for electric scissors. 3,698,087, 10-17-72, Cl. 30-228.000.
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Cowell, Clifton Douglas; and Martin, Karl Anthonie, to Imperial Chemical Industries Limited. Synthetic polyamide compositions. 3,651,010, 3-21-72, Cl. 260-45.95.
Cowell, Robert L.; May, Richard L.; See, Thomas E.; and Stastny, Edwin O., to Mattel, Inc. Miniature phonograph. 3,633,924, 1-11-72, Cl. 274-9.
Cowen, Samuel H., to Chemed Corporation. Film-tissue paper adhesive laminates. 3,669,822, 6-13-72, Cl. 161-130.000.
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Cowlard, Frederick Claud; and Ord, George, to Plessey Company Limited, The. Heat transfer apparatus. 3,632,974, 1-4-72, Cl. 219-371.
Cowlard, Frederick Claud; and Ord, George, to Plessey Company Limited, The. Manufacture of composite ferrites. 3,658,468, 4-25-72, Cl. 23-51.
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Cowley, Brian Richard: *See—*
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Cowling, Ronald. 3-Hydroxy-4-benzoyphenyl cyclic phosphates. 3,686,367, 8-22-72, Cl. 260-937.000.
Cowmeadow, Richard R., to Bunker-Ramo Corporation, The. Diaphragm seal for an electrical connector. 3,643,206, 2-15-72, Cl. 339-94.

Cowmeadow, Richard R., to Bunker-Ramo Corporation, The. Connector device having detent lock. 3,646,495, 2-29-72, Cl. 339-14.
Cowmeadow, Richard R., to Bunker-Ramo Corporation, The. Electrical connector having laminated contact element. 3,648,222, 3-7-72, Cl. 339-14.
Cowpland, Michael C. J., to Microsystems International Limited. Voltage clipping circuit. 3,703,647, 11-21-72, Cl. 307-237.000.
Cox, Arthur R.; and Allen, Marvin M., to United Aircraft Corporation. Processing of the precipitation hardening nickel-base superalloys. 3,677,830, 7-18-72, Cl. 148-12.700.
Cox, Arthur T. Guides for sliding doors. 3,701,179, 10-31-72, Cl. 16-90.000.
Cox, Bernard H.: *See—*
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Cox, Charles D.; and Liggett, Thomas, to United States of America, Navy. Production of small spherical particle nitrocellulose. 3,671,515, 6-20-72, Cl. 260-223.000.
Cox, Clifford B. Remote control door lock. 3,677,043, 7-18-72, Cl. 70-92.000.
Cox, Clyde Harold. Sludge dewatering. 3,695,173, 10-3-72, Cl. 100-74.000.
Cox, Conrad M.; and Fischer, Robert B., to International Business Machines Corporation. Method and apparatus for testing gap surface finish and winding characteristics of a magnetic head subassembly. 3,681,682, 8-1-72, Cl. 324-34.00r.
Cox, Duane M., to Thiokol Chemical Corporation. Hot gas valve. 3,680,788, 8-1-72, Cl. 239-265.230.
Cox, Duncan B., Jr.; and Fertig, Kenneth, to Massachusetts Institute of Technology. Position measuring transducer comprising a stator and relatively movable flux altering member. 3,641,429, 2-8-72, Cl. 324-34.
Cox, Duncan B., Jr.; Fertig, Kenneth; and Fulton, Donald E., to Massachusetts Institute of Technology. Phase-locked resolver tracking system. 3,667,031, 5-30-72, Cl. 323-101.000.
Cox, Duncan B., Jr.; and Fertig, Kenneth, to Massachusetts Institute of Technology. Electronic instrument servo. 3,706,092, 12-12-72, Cl. 340-347.0ad.
Cox, Edward A.: *See—*
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Cox, Edwin W., to Cox, W. T., Company. Convertible raid-highway vehicle. 3,701,323, 10-31-72, Cl. 105-215.00c.
Cox, Eric William. Stabilised platform for window cleaning and like uses. 3,637,047, 1-25-72, Cl. 182-222.
Cox, Ernest Francis, to Ronson Corporation. Divided flow hairdryer. 3,674,980, 7-4-72, Cl. 219-367.000.
Cox, Ernest H., to Tenneco Chemicals, Inc. Constant concentration hydrochloric acid by varying water feed proportionally to temperature. 3,666,424, 5-30-72, Cl. 23-312.
Cox, Ernest P. Windshield air deflector. 3,647,256, 3-7-72, Cl. 296-91.
Cox, Eugene O. Garden tool. 3,688,484, 9-5-72, Cl. 56-400.120.
Cox, Frederick L.; and Krumreich, Jack E., to Tri-Industries, Inc. Honeycomb ribbon pad manufacturing apparatus. 3,671,711, 6-20-72, Cl. 219-117.0hd.
Cox, Harold E.: *See—*
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Cox, Howard Nesbit, to General Electric Company. Motor drive system for rolling mill. 3,683,653, 8-15-72, Cl. 72-8.000.
Cox, Irvin W., to Cambridge Thermionic Corporation. Process of making flocked plate structure for electric batteries. 3,676,253, 7-11-72, Cl. 156-279.000.
Cox, James E., to Magnavue, Inc. Mirror and lens assembly. 3,632,191, 1-4-72, Cl. 350-202.
Cox, James P., to Inglis, John, Frozen Foods Company. Dual belt machine for trimming projections from globular articles. 3,669,164, 6-13-72, Cl. 146-81.
Cox, James P., to Inglis, John, Frozen Foods Company. Method for trimming projections from globular articles. 3,677,315, 7-18-72, Cl. 146-224.000.
Cox, James P. Stick-classifying method and apparatus. 3,702,655, 11-14-72, Cl. 209-80.000.
Cox, Jay A., to Gulton Industries, Inc. Power inverter oscillator circuit. 3,691,450, 9-12-72, Cl. 321-45.00r.
Cox, John B.; and Stoltz, Jacque R. Time averaging method and apparatus for obtaining fluid measurements. 3,693,435, 9-26-72, Cl. 73-194.00e.
Cox, John J., Jr.; and Fisher, Richard G., to Du Pont de Nemours, E. I., and Company. Lead frame connector and electronic packages containing same. 3,689,684, 9-5-72, Cl. 174-68.500.
Cox, John M., to General Motors Corporation. Storage battery cover. 3,647,556, 3-7-72, Cl. 136-170.
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Cox, Melvin R., to Owens-Corning Fiberglas Corporation. Condition responsive control circuit. 3,634,699, 1-11-72, Cl. 307-118.
Cox, Michael C. L., to Gillette Company, The. Urine collection device. 3,680,543, 8-1-72, Cl. 128-2.00f.
Cox, Norman R.; and Saunby, John B., to Union Carbide Corporation. Oxidation of butane. 3,646,128, 2-29-72, Cl. 260-533.
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Cox, Robert P.; and Fish, Leonard A., to Wham-O Manufacturing Company. Foamable resinous composition. 3,705,669, 12-12-72, Cl. 222-394.000.
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Coyle, Edward L.; Josephson, Edgar F.; and Schipper, Dennis J., to ACF Industries, Incorporated. Humidity control in a temperature controlled railway car. 3,694,925, 10-3-72, Cl. 34-46.000.
Coyle, James, to Shell Oil Company. Hydroxylation of aromatics. 3,699,175, 10-17-72, Cl. 260-621.00g.
Coyle, Jan R. Thermal battery with percussion cap. 3,679,487, 7-25-72, Cl. 136-90.000.
Coyle, Jan R., to Threadline Fastener Corporation. Fastener and method of making the same. 3,687,181, 8-29-72, Cl. 151-14.00r.
Coyle, Jan Robert; and Stevens, Robert Walter. Capacitor energized channel stepping means for battery operated tape players. 3,676,609, 7-11-72, Cl. 179-100.10r.
Coyle, John Cadden; and Coulson, Derrick, to Rolls-Royce Limited. Vehicle air conditioning system. 3,656,541, 4-18-72, Cl. 165-16.
Coyle, Roy M., Sr., 1/2 to Wrau, Norman J. Thermostatic expansion valve for refrigeration system. 3,696,628, 10-10-72, Cl. 62-115.000.
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Coyne, Francis P., to Ingersoll-Rand Company. Spread center bushing. 3,687,226, 8-29-72, Cl. 180-9.500.
Coyne, James Christopher; and Smith, Arnold Ray, to Bell Telephone Laboratories, Incorporated. Impulse-reaction propulsion cycle for mole. 3,642,076, 2-15-72, Cl. 173-91.

Coyne, Merton W.; and Palauro, Dieter K., to Gardner-Denver Company. Force pulse shaping member for percussion tool. 3,640,351, 2-872, Cl. 173-105.
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Coyne, William E.; and Cusic, John W., to Searle, G. D., & Co. Dibenzo[a,e]cyclopropa[c]cycloheptene derivatives. 3,658,908, 4-25-72, Cl. 260-590.
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Cozewith, Charles; and Tornqvist, Erik G. M., to Esso Research and Engineering Company. Butadiene polymerization catalyst comprising TiX_3nAlI_3 organoaluminum compound and Lewis acid. 3,642,758, 2-15-72, Cl. 260-94.3.
Cozewith, Charles; and Tornqvist, Erik G. M., to Esso Research and Engineering Company. Alpha olefin and diene polymerization catalyst. 3,663,450, 5-16-72, Cl. 252-429.
Cozic, Albert. Bilge pump for boats. 3,644,062, 2-22-72, Cl. 417-211.
Cozza, Giorgio; Bottai, Gabriele; and Barilli, Filippo, to Societa Italiana Resine S.p.A. Process for the manufacture of sodium sulphate. 3,706,531, 12-19-72, Cl. 23-121.000.
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Crabb, Elmer R.; and Warren, Larry G., to Caterpillar Tractor Company. Brake control system with transmission interlock. 3,635,317, 1-18-72, Cl. 192-4.
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Crabbe, Pierre; and Velarde, Esperanza, to Syntex Corporation. Process for preparing 17a-hydroxy-20-keto and 17a, 21-dihydroxy-20-keto pregnanes and derivatives and intermediates thereof. 3,681,410, 8-1-72, Cl. 260-397.300.
Crabbe, Pierre; and Fried, John H. Preparation of 17 alpha propadienyl steroids. 3,681,411, 8-1-72, Cl. 260-397.400.
Crabbe, Pierre; and Graf, Ulrich Werner, to Syntex Corporation. 17α-(2,3-Methylene-prop-1-en-1 yl)-steroids and 17α(2,3-monohalomethylene and 2,3-dihalomethylene) derivatives thereof. 3,682,984, 8-8-72, Cl. 260-397.400.
Crabtree, Allen, to Imperial Chemical Industries Limited. Substituted anilino-s-triazines. 3,666,759, 5-30-72, Cl. 260-249.500.
Crabtree, Allen, to Imperial Chemical Industries Limited. Certain 6-hydroxy 2-(1H)pyridones. 3,668,211, 6-6-72, Cl. 260-294.900.
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Crabtree, Norman. Vehicle brake actuator and lock assembly. 3,684,063, 8-15-72, Cl. 188-265.000.
Crabtree, Orville R.; and Thomas, Manuel A., to Deering Milliken Research Corporation. Textile finishing process and products produced thereby. 3,649,344, 3-14-72, Cl. 117-135.5.
Crabtree, Ronald; and Horacek, Peter. Vehicle lifting device. 3,674,252, 7-4-72, Cl. 269-55.000.
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Craddock, Wayne Edward; and Smith, Stanley George, to Du Pont de Nemours, E. I., and Company. Stock cutter for elastomer drying press. 3,645,200, 2-29-72, Cl. 100-98.
Crafford, Thomas J.; Shilo, Alexander I.; and Cary, Harry W., Jr., to Crafford Tool & Die Co. Automatic chain cutting machine. 3,640,164, 2-8-72, Cl. 83-67.
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Craft, Loie C., Jr. Trap for gophers and the like. 3,650,061, 3-21-72, Cl. 43-77.
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Craft, Nina B.; and Sprague, Gary R., to Medical Planning Associates. Sitz bath. 3,648,296, 3-14-72, Cl. 4-6.
Crafton, Paul A., to Constellation Science and Technology Corporation, mesne. Secure communications control system. 3,654,604, 4-4-72, Cl. 340-147.
Crafton, Paul A.; and Mittmeyer, Ingmar, to National Telecommunications System, Inc. Communication system. 3,693,155, 9-19-72, Cl. 340-147.00r.
Crafts, Robert L., to Telex Corporation, The. Reversible incremental recording apparatus. 3,659,806, 5-2-72, Cl. 242-201.

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Craggs, Donald E.; and Gillen, Richard S., to Union Oil Company of California. Floating oil skimmer. 3,704,784, 12-5-72, Cl. 210-242.000.
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Cragoe, Edward J., Jr.; and Jones, James H., to Merck & Co., Inc. Lower alkyl 3-hydroxy and 3-mercaptopyrazinoates. 3,660,400, 5-2-72, Cl. 260-250.
Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., to Merck & Co., Inc. Substituted 1-oxoinden-5-yloxy-alkanoic acids. 3,668,241, 6-6-72, Cl. 260-520.000.
Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., to Merck & Co., Inc. (1-Oxo-2-alkylideneindanyloxy) and (1-oxo-2-alkylideneindanylthio) alkanoic acids. 3,704,314, 11-28-72, Cl. 260-520.000.
Craig, Burnie M., to Paramount Industries. Device responsive to motion and tampering. 3,646,289, 2-29-72, Cl. 200-61.47.
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Craig, Dwin R., to Ingenuics, Inc. Gravity operated liquid prism. 3,655,274, 4-11-72, Cl. 350-286.
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Craig, Glenn D., to Aqua-Chem, Inc. Combination fire and water tube boiler. 3,638,621, 2-1-72, Cl. 122-140.
Craig, Grantland A., to Paper Converting Machine Company, Inc. Smock-forming machine and method. 3,684,611, 8-15-72, Cl. 156-250.000.
Craig, Grantland A., to Paper Converting Machine Company, Inc. Garment-making method. 3,696,445, 10-10-72, Cl. 2-243.000.
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Craig, Mordecai R.: *See—*
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Craig, Sam N., to Wascon Systems, Inc. Hydraulic transportation system. 3,653,720, 4-4-72, Cl. 302-15.
Craig, Sam N.; Warner, Ellis R., Jr.; and Buckman, Wayne T., to Wascon Systems, Inc. Press. 3,688,687, 9-5-72, Cl. 100-117.000.
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Craig, William Allan; and Gurton, Owen Allen, to Imperial Chemical Industries Limited. Energetic constituent for incendiary and explosive compositions. 3,684,595, 8-15-72, Cl. 149-41.000.
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Crain, Donald L.; and Stapp, Paul R., to Phillips Petroleum Company. Linear olefins via olefin disproportionation and ethylene-propylene co-dimerization. 3,658,931, 4-25-72, Cl. 260-683.
Crain, Donald L.; and Reusser, Robert E., to Phillips Petroleum Company. Neohexene from isobutene and ethylene. 3,660,516, 5-2-72, Cl. 260-683.
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Crain, Norman Robert; and Rea, Donald E., to Documentor Sciences Corporation. Data control device. 3,639,732, 2-1-72, Cl. 235-61.12.
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Cram, Robert S., to Design Creations, Inc. Hanger for material in sheet form. 3,671,004, 6-20-72, Cl. 248-467.000.
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Cramer, Richard D.; and Lindsey, Richard V., Jr., to Du Pont de Nemours E. I., and Company. Preparation of 1,4-hexadiene from ethylene and butadiene with selected cyclopentadienylrhodium catalysts. 3,636,122, 1-18-72, Cl. 260-680.
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Cramer, Roy A., Jr. Water moving apparatus for destratification, ice reduction and barnacle control. 3,667,873, 6-6-72, Cl. 417-424.000.
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Crampsey, Edward, to Courtaulds Limited. Manufacture of delustred nylon filaments. 3,640,942, 2-8-72, Cl. 260-37.
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Cranage, Bidwell C., to Stile-Craft Manufacturers, Inc. Latching device for coupling assembly. 3,643,985, 2-22-72, Cl. 285-189.
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Crane, Brian, to Wickman Machine Tool Sales Limited. Attachments for automatic lathes. 3,683,724, 8-15-72, Cl. 82-2.500.
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Crane, Edward J., to International Agri-Systems, Inc. Method and apparatus for eviscerating poultry. 3,689,961, 9-12-72, Cl. 17-45.000.
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Crane, Joanne C. Decorative novelty device. 3,654,046, 4-4-72, Cl. 161-5.
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Crano, John C.; and Fleming, Elizabeth K., to PPG Industries, Inc. Synthesis of propylene from ethylene. 3,637,894, 1-25-72, Cl. 260-683.
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Cranskens, Georg; Jakobson, Hans; Rathje, Armin; and Salger, Werner, to Lumoprint Zindler KG. Developer replenishing device for copying apparatus. 3,641,907, 2-15-72, Cl. 95-89.
Cranskens, Georg; Krober, Gunther; and Palm, Richard, to Lumoprint Zindler K.G. Photocopying machine having removable modules. 3,698,804, 10-17-72, Cl. 355-3.000.
Cranston, Benjamin H., to Western Electric Company, Incorporated. Methods for bonding leads and testing bond strength. 3,634,930, 1-18-72, Cl. 29-574.
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Crast, Leonard Bruce, Jr., to Bristol-Myers Company. 7-[D-(α-Amino-α-phenylacetamido)]-3-(4-methyl-1, 3-oxazol-a-ylthiomethyl)-3-cephem-4-carboxylic acid and salts thereof. 3,687,948, 8-29-72, Cl. 260-243.00c.
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Craven, George Frederick; and Skedd, Richard Finnie, to International Standard Electric Corporation. Waveguide filter utilizing evanescent waveguide, with tuneable ferrite loading. 3,639,862, 2-1-72, Cl. 333-73.
Craven, George Frederick; and Thomas, Raymond Richard, to International Standard Electric Corporation. Hybrid T-junction constructed in waveguide having a cut off frequency above the operating frequency. 3,657,668, 4-18-72, Cl. 333-11.
Craven, Harry J.; Hannahan, William F.; and Viscusi, James J., to General Electric Company. Apparatus for producing a corrugated member. 3,685,931, 8-22-72, Cl. 425-89.000.
Craven, James M., to Du Pont de Nemours, E. I., and Company. Polyiminohydantoins and method of preparation. 3,645,978, 2-29-72, Cl. 260-77.5.
Craven, James M., to Du Pont de Nemours, E. I., and Company. Polyiminobenzoxazinediones and method of preparation. 3,657,186, 4-18-72, Cl. 260-47.
Craven, James M., to Du Pont de Nemours, E. I., and Company. Polyiminoquinazolinediones. 3,674,749, 7-4-72, Cl. 260-77.5ch.
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Crawford, Howard H. Grass edger with one-piece cutter bar collar. 3,684,028, 8-15-72, Cl. 172-15.000.
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Crawford, Richard M.; and Parsons, Gerard A., to Cinran Plastics Limited. Garbage bag holder. 3,684,225, 8-15-72, Cl. 248-99.000.
Crawford, Robert J., to Procter & Gamble Company, The. 4-(4-Methylcyclohex-3-en-1-yl)pent-4-en-1-ol and a process for its synthesis. 3,676,505, 7-11-72, Cl. 260-631.500.
Crawford, Robert J., to Procter & Gamble Company, The. Synthesis of novel compounds useful for production of juvabione. 3,676,506, 7-11-72, Cl. 260-631.500.
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Creamer, Adelene. Non-slip foot device. 3,683,519, 8-15-72, Cl. 36-11.500.
Creamer, Charles Edward, to Union Carbide Corporation. Organosiloxane elastomers. 3,696,068, 10-3-72, Cl. 260-29.10b.
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Credali, Lino; and Parrini, Paolo, to Consiglio Nazionale Delle Richerche and Montecatini Edison S.p.A. Osmosis process. 3,687,842, 8-29-72, Cl. 210-23.000.
Credali, Lino; and Parrini, Paolo, to Consiglio Nazionale Delle Ricerche and Montecatini Edison S.p.A. Osmosis process. 3,696,031, 10-3-72, Cl. 210-23.000.
Credit Keys Limited: *See—*
Sanders, Kenneth Douglas; Botley, Geoffrey Sword; and Taylor, Jack William, 3,705,507.
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Credner, Hans-Heinrich; Glockner, Hans; and Nittel, Fritz, to Agfa-Gevaert Aktiengesellschaft. Color photographic silver halide multilayer material containing cyan-forming couplers. 3,652,286, 3-28-72, Cl. 96-100.
Credner, Hans-Heinrich; Glockner, Hans; Muller, Fritz; and Kunitz, Friedrich Wilhelm, to Agfa-Gevaert Aktiengesellschaft. Color photographic material comprising a blue-green color coupler. 3,658,537, 4-25-72, Cl. 96-74.
Cree, George Benson, Jr. Brake press die system, structure and processes. 3,703,094, 11-21-72, Cl. 72-389.000.
Creears, T. H., Corporation: *See—*
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Creed, John W., Jr.: *See—*
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Tullos, Aubrey R.; and Creed, Leslie H., 3,653,070.
Creedon, John F.; and Kern, Richard W., to International Business Machines Corporation. Multiple light flash photographic process. 3,634,084, 1-11-72, Cl. 96-46.
Creek, Ronald B.; and Gardner, Karl A., to United States of America, Atomic Energy Commission. Sodium heated steam generator. 3,662,718, 5-16-72, Cl. 122-32.000.
Creelman, Raymond C. Toilet syncope guard. 3,638,647, 2-1-72, Cl. 128-133.
Creely, Joseph W., to Baxter Laboratories, Inc. Aerosol type antistatic composition. 3,686,120, 8-22-72, Cl. 252-8.800.
Creffield, David F., to USM Corporation. Cutting press having improved means for handling cut products. 3,656,380, 4-18-72, Cl. 83-96.
Creffield, David F., to USM Corporation. Cutting press having improved means for handling cut product. 3,672,250, 6-27-72, Cl. 83-92.000.
Cregeen, Derek, to U.S. Philips Corporation. Channel intensifier glass compositions. 3,641,382, 2-8-72, Cl. 313-105.
Creger, Paul L., to Parke, Davis & Company. 2,2-Dimethyl-γ-aryloxy-alkanoic acids and salts and esters thereof. 3,674,836, 7-4-72, Cl. 260-473.00g.
Creger, Paul L.; and Neuklis, Winifred A., to Parks, Davis & Company. Aryloxypentane compounds. 3,707,566, 12-26-72, Cl. 260-613.00d.
Crehore, Robert. Two-cycle engine. 3,665,896, 5-30-72, Cl. 123-18.00a.
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Cremeans, George E., to Battelle Development Corporation, The. Alkali metal salts of polyacetylenic polyoic acids. 3,679,738, 7-25-72, Cl. 260-485.00r.
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Cremer, Erika; and Kraus, Thaddaus, to Balzers Patent- und Beteiligungs-Aktiengesellschaft. Thin layer chromatographic method. 3,669,881, 6-13-72, Cl. 210-31.

Cremer, George D., to United States of America, Atomic Energy Commission. Insulation module with superposed deformed core sheets. 3,636,674, 1-25-72, Cl. 52-509.

Cremer, Gottfried; and Kraus, Joachim, to Fetok GmbH. Means for attaching slabs and tiles on building structures. 3,694,981, 10-3-72, Cl. 52-235.000.

Cremer, John M.; and Krohne, Norman A., to Cremer Engineering Company, Inc. Periodic timed switching apparatus. 3,668,683, 6-6-72, Cl. 340-309.400.

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Cremer, Joseph; and Panter, Herbert, to Knapsack Aktiengesellschaft. Tubular ozonizer. 3,661,763, 5-9-72, Cl. 204-321.

Cremer, Robert L.: *See—*
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Cremer, Walter, to Heinrich Koppers Gesellschaft mit beschrankter Haftung. Dust collector for a by-product coke oven. 3,676,305, 7-11-72, Cl. 202-263.000.

Crener, Bengt Olof; and Ernolf, Stig Carl-Oskar, to Aktiebolaget Electrolux. Surface cleaning apparatus. 3,633,240, 1-11-72, Cl. 15-321.

Crener, Bengt Olof; Anderson, Erik Arne; and Ernolf, Stig Carl-Oskar, to Aktiebolaget Electrolux. Combination surface treating and suction cleaning apparatus. 3,639,939, 2-8-72, Cl. 15-320.

Crenne, Noel: *See—*
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Crenshaw, Paul L.; Flippen, Floyd F.; and Glasgow, James P., to Dow Chemical Company, The. Viscous fluid compositions. 3,634,237, 1-11-72, Cl. 252-8.55.

Crenshaw, Ronnie R., to Bristol-Myers Company. Tetrahydrodibenzothiophenes. 3,678,076, 7-18-72, Cl. 260-330.500.

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Crescentini, Lamberto, to Allied Chemical Corporation. Polyamide filaments containing polyalkylene ethers and phenolic antioxidants. 3,655,819, 4-11-72, Cl. 260-857.

Crescenzo, Frank G.; and Dow, Robert L., to United States of America, Navy. Gas generator compositions. 3,639,183, 2-1-72, Cl. 149-18.

Cresci, Paul A.; and Paris, Thomas H. Hydraulic lift controls. 3,695,710, 10-3-72, Cl. 298-22.00r.

Creskoff, Jacob J., to Vacuum Concrete Corporation of America. Flexible vacuum lifter. 3,640,562, 2-8-72, Cl. 294-65.

Crespel, Michel; and Valat, Christian, to Telefonaktiebolaget L M Ericsson. Arrangement for operators telephone set. 3,707,606, 12-26-72, Cl. 179-81.00b.

Crespi, Giovanni. Dense magnesite furnace hearth having a superficial dolomite-containing layer and method. 3,632,698, 1-4-72, Cl. 264-30.

Crespi, Giovanni, to Siderpatents, S.A. Utilization of molten slag from metallurgical furnace in manufacture of fused cast refractory shapes. 3,662,058, 5-9-72, Cl. 264-332.

Cressman, Fred D., to Canada Barrels & Kegs Limited. Fiberglass processing tank. 3,664,161, 5-23-72, Cl. 69-30.

Cressman, Russell N.; and Bantz, Walter J., to Bethlehem Steel Corporation. Ultrasonic inspection probe. 3,631,714, 1-4-72, Cl. 73-71.5.

Cressman, Russell N.; Bantz, Walter J.; and Nusbickel, Edward M., Jr., to Bethlehem Steel Corporation. Ultrasonic inspection system with scanned multiple transducers. 3,672,210, 6-27-72, Cl. 73-67.900.

Cresswell, John H.: *See—*
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Cresswell, Richard, to Marconi Company Limited, The. Tracking antenna with anti-backlash spring in gear train. 3,665,482, 5-23-72, Cl. 343-765.000.

Cresswell, Ronald M.; Mentha, John W.; and Seaman, Russell, to Burroughs Wellcome & Co. (U.S.A.) Inc. Method of preparing morpholino cyano-acrylamide. 3,682,957, 8-8-72, Cl. 260-310.000.

Cresswell, Ronald M.; and Schnapper, Melvin. Process of preparing 3-amino-2-cyano acrylamide. 3,694,484, 9-26-72, Cl. 260-465.400.

Cresswell, Ronald M.; Mentha, John W.; and Seaman, Russell L., to Burroughs Wellcome & Co. (U.S.A.) Inc. 5-Benzyl pyrimidines intermediates. 3,697,512, 10-10-72, Cl. 260-240.00r.

Cresswell, Ronald Morton; and Mentha, John William, to Burroughs Wellcome & Co. (U.S.A.) Inc. Benzylidene cyano-acetals. 3,671,564, 6-20-72, Cl. 260-465.00f.

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Creswell, Samuel J., Iron Works, The: *See—*
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Crete, Darrel R. Color enlarger system. 3,685,901, 8-22-72, Cl. 355-38.000.

Cretors, C., & Co.: *See—*
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Cretors, Charles De Witt, to Cretors, C., & Co. Feeder apparatus for metering a predetermined amount of product. 3,645,422, 2-29-72, Cl. 222-169.

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Creuz, Walter R., to Aero-Flow Dynamics, Inc. (The Wing Company Division). Apparatus for detecting interruption in the cyclic movement of a member. 3,701,139, 10-24-72, Cl. 340-271.000.

Creve Coeur Mfg., Co.: *See—*
Kepple, Orren N., 3,633,548.

Crewe, John Mervyn, to Smith & Wesson Chemical Company, Inc. Airborne dispenser. 3,674,174, 7-4-72, Cl. 221-87.000.

Crews, Clarence M. Battery protective memory system for automotive vehicles. 3,666,959, 5-30-72, Cl. 307-10.

Crews, Donald R., to Caterpillar Tractor Company. Engine support bushing assembly. 3,633,856, 1-11-72, Cl. 248-99.

Crews, Samuel T., Jr.: *See—*
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Cricchi, James R.; and Lancaster, Edgar D., Jr., to Westinghouse Electric Corporation. Complementary MOSFET integrated circuit memory. 3,641,511, 2-8-72, Cl. 340-173.

Cricchi, James R.; and Hudson, James R., to Westinghouse Electric Corporation. Complementary MOSFET memory cell. 3,644,907, 2-22-72, Cl. 340-173.

Cricchi, James R., to Westinghouse Electric Corporation. MIS array utilizing field induced junctions. 3,657,614, 4-18-72, Cl. 317-235.

Cricchi, James R., to Westinghouse Electric Corporation. Resettalbe non-volatile memory utilizing variable threshold voltage devices. 3,680,062, 7-25-72, Cl. 340-173.00r.

Cricchi, James R.; and Beydler, William W., to Westinghouse Electric Corporation. Non-volatile memory element and array. 3,683,335, 8-8-72, Cl. 340-173.00r.

Cricchi, James R., to Westinghouse Electric Corporation. Electro-optic mass memory. 3,702,465, 11-7-72, Cl. 340-173.0lt.

Crichton, Alfred Buxton, to Union Carbide Corporation. Method for vertical welding of aluminum. 3,666,908, 5-30-72, Cl. 219-73.

Crick, Roger Dudley Salway, to English Electric Company Limited, The. Laminated structures. 3,679,527, 7-25-72, Cl. 161-5.000.

Crickmer, Charles D. Hydrostatic riser pipe tensioner. 3,643,751, 2-22-72, Cl. 175-7.

Crickmer, Charles D. Well swab. 3,677,143, 7-18-72, Cl. 92-241.000.

Criley, Ronald L.; Frost, Richard H.; and Shopalovich, Predrag, to United States of America, Army, mesne. Extraction force transfer system. 3,642,235, 2-15-72, Cl. 244-137.

Crimi, Fred J., to Union Carbide Corporation. Process for constructing tufted carpets and rugs and bonding agents useful therein. 3,645,949, 2-29-72, Cl. 260-28.5.

Crimmins, Arthur G.; and Doolittle, Donald B., to All American Industries, Inc. Field-treating device. 3,666,178, 5-30-72, Cl. 239-77.

Crimmins, Bruce: *See—*
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Cripe, Maxwell L., to Bendix Corporation, The. Dual lever ratio brake activating apparatus. 3,633,366, 1-11-72, Cl. 60-54.6.
Cripe, Maxwell L., to Bendix Corporation, The. Vacuum control for servomotor. 3,646,758, 3-7-72, Cl. 60-54.6.
Cripe, Maxwell L., to Bendix Corporation, The. Check valve with means for relieving fluid pressure from the control chamber. 3,661,174, 5-9-72, Cl. 137-512.3.
Cripe, Maxwell L., to Bendix Corporation, The. Vacuum pumping device. 3,703,077, 11-21-72, Cl. 60-51.000.
Cripe, Maxwell L., to Bendix Corporation, The. Dual lever ratio brake activating apparatus. 3,707,075, 12-26-72, Cl. 60-54.60p.
Crippa, Eugene R.; and Lowry, Ray B., to United States of America, Navy. Magnetic tape with plural clocks. 3,697,969, 10-10-72, Cl. 340-174.10a.
Cripps, Jack, to Bunker-Ramo Corporation, The. Electrical connectors. 3,665,371, 5-23-72, Cl. 339-90.
Crisafi, Robert C., to Damon Corporation. Unit dosage package. 3,684,128, 8-15-72, Cl. 221-63.000.
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Criscuolo, Andrew C. Head for musical instrument. 3,668,296, 6-6-72, Cl. 84-414.
Crisler, Larry Dean, to Union Special Machine Company. Top feed mechanism for overedge sewing machine. 3,636,899, 1-25-72, Cl. 112-207.
Crisler, Larry R., to United States of America, Atomic Energy Commission. Production of plutonium formate and plutonium dioxide. 3,660,047, 5-2-72, Cl. 23-344.000.
Crisman, Marilou; and Howard, Arthur G. Disposable bib. 3,654,629, 4-11-72, Cl. 2-49.
Crispe, Stanley William; and Wood, Henry, to T. & T. Vicars Limited. Biscuit handling machinery. 3,642,114, 2-15-72, Cl. 198-25.
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Idskov, Arne S.; and Nielsen, Jacob A., 3,637,066.
Criss, Donald H.; and Pollitt, Erwin P., to Owens-Illinois, Inc. Method and apparatus for blow molding plastic articles. 3,652,751, 3-28-72, Cl. 264-99.
Criss, Donald H.; and Kontz, Robert F., to Owens-Illinois, Inc. High speed trim machine for blown plastic articles. 3,659,486, 5-2-72, Cl. 82-82.
Criss, Donald H.; and Kontz, Robert F., to Owens-Illinois, Inc. Method and apparatus for trimming blow molded plastic articles. 3,682,026, 8-8-72, Cl. 82-75.000.
Criss, William H.; and Shackelford, John R., to Stange Co. Apparatus for applying liquid surface treating materials to sausages. 3,699,877, 10-24-72, Cl. 99-260.000.
Crist, Michael C., to Dow Chemical Company, The. Liquid sample valve. 3,681,996, 8-8-72, Cl. 73-422.000.
Crist, Vernon W. Electric fence short detector. 3,648,266, 3-7-72, Cl. 340-254.
Cristiani, Athos, to AMF Incorporated. Glue dispenser for cigarette making machine. 3,700,141, 10-24-72, Cl. 222-1.000.
Cristie, Martin, to Stelber Industries Inc. Bicycle clutch and parts associated therewith. 3,650,363, 3-21-72, Cl. 192-64.
Cristol, Stanley J.; and Lee, George A., to Du Pont de Nemours, E. I., and Company, mesne. Photosynthesis of cyclopropyl compounds from allylic compounds. 3,674,665, 7-4-72, Cl. 204-163.000.
Cristy, Albert B.; and Kachioff, Yuval, to Eastman Kodak Company. Package for fragile articles. 3,695,424, 10-3-72, Cl. 206-62.00r.
Criswell, Daryl L.; and Sebold, Clarence V., to Bendix Corporation, The. Portable X-ray generating machine. 3,681,604, 8-1-72, Cl. 250-93.000.
Critchfield, Frank Edward; Hyre, John Edward; and Stout, Eldon Charles, to Union Carbide Corporation. Copolymers of lactones and alkylene oxides. 3,689,531, 9-5-72, Cl. 260-484.00a.
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Critchley, Derek; Dawber, Frank; and Grainger, Kenneth Frederick, to Pilkington Brothers Limited. Sampling of gaseous atmospheres. 3,680,388, 8-1-72, Cl. 73-421.50r.
Critchley, John Phillip; and Lee, William Alexander, to National Research Development Corporation. Aromatic polyimides containing perfluoroalkylene groups. 3,649,601, 3-14-72, Cl. 260-78.
Crittendon, Charles E.: *See*—
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Crivellaro, Giovanbattista; and Crestani, Bruno, to Gruppo Lepetit S.p.A. Stable aqueous steroid phosphate solutions. 3,696,195, 10-3-72, Cl. 424-175.000.
Crivello, James V., to General Electric Company. Nitration of aromatic ring-containing compositions. 3,634,520, 1-11-72, Cl. 260-612.
Crivello, James V., to General Electric Company. Oxidation of hydroxylated aromatic compositions. 3,678,080, 7-18-72, Cl. 260-396.00r.
Crivello, James V., to General Electric Company. Oxidation of hydroxylated aromatic compositions. 3,678,081, 7-18-72, Cl. 260-396.00r.
Crivello, James V., to General Electric Company. Process for making poly(arylenevinylenes). 3,701,740, 10-31-72, Cl. 260-2.00h.
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Crixell, Arthur R., to Monsanto Company. Rotor for intensive mixers. 3,672,644, 6-27-72, Cl. 259-104.000.
Croasdale, William Herbert; French, Harlan Sumner; Hofschild, Clewell Stephen; and Johnson, Donald Owen, to American Can Company. Method and apparatus for accurately dispensing viscous products into successive containers. 3,648,741, 3-14-72, Cl. 141-9.
Croce, Joseph; and Bayer, Kurt. Dog leash retriever. 3,693,596, 9-26-72, Cl. 119-109.000.
Croce, Louis J.; and Bajars, Laimonis, to Petro-Tex Chemical Corporation. Oxidative dehydrogenation catalysts. 3,649,560, 3-14-72, Cl. 252-432.
Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, to Petro-Tex Chemical Corporation. Dehydrogenation process. 3,655,805, 4-11-72, Cl. 260-680.
Croce, Louis J.; and Bajars, Laimonis, to Petro-Tex Chemical Corporation. Sulfur promoted metal ferrite oxidative dehydrogenation catalyst. 3,666,687, 5-30-72, Cl. 252-439.
Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, to Petro-Tex Chemical Corporation. Modified oxidative dehydrogenation catalysts. 3,670,042, 6-13-72, Cl. 260-680.00e.
Croce, Louis J.; and Barone, Bruno, to Petro-Tex Chemical Corporation. Promotion of liquid phase oxidation catalysts. 3,678,105, 7-18-72, Cl. 260-524.
Croce, Roberto: *See*—
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Crocker, Richard E., to Atlantic Richfield Company. Hydrocarbon chlorination and alkylation process. 3,639,494, 2-1-72, Cl. 260-671.
Crockett, Richard H., to Toscotech Corporation. Pressure seal assembly. 3,706,482, 12-19-72, Cl. 308-1.000.
Crockford, Joseph R., to Kimberly-Clark Corporation. Tampon for directional placement and applicator therefor. 3,643,661, 2-22-72, Cl. 128-263.
Croft, Brian Hugh, to Brico Engineering Limited. Speed controls. 3,661,131, 5-9-72, Cl. 123-140.
Croft Metals, Inc.: *See*—
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Crofts, George B. Presence detector. 3,683,176, 8-8-72, Cl. 246-40.000.
Croissant, Pierre Michel Rene; Armbruster, Jean-Claude; and Chaumeau, Andree, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Electrolyte for dry batteries and dry cell batteries using such electrolyte. 3,697,327, 10-10-72, Cl. 136-157000.
Croix, Louis S., to Air Reduction Company, Incorporated. Method of preparing of $CF_3CHC10CHF_2$. 3,637,477, 1-25-72, Cl. 204-158.
Croix-Marie, Francis Marie Jean; and Grignon, Robert Georges, to Bertin & Cie. Confining system for ground effect machine. 3,647,018, 3-7-72, Cl. 180-124.
Croix-Marie, Francis Marie Jean, to Bertin & Cie. Trimming a ground effect machine. 3,698,506, 10-17-72, Cl. 180-118.000.
Croley, Thomas E.; and Morgan, Richard O., to Corco Inc. Packing, shipping and dispensing container for bulk material. 3,633,794, 1-11-72, Cl. 222-88.
Croley, Thomas E., to Corco, Inc. Drum-like container of telescoping type set-up from folded flats of sheet material. 3,670,946, 6-20-72, Cl. 229-4.500.
Croley, Thomas E., to Corco, Inc. Fiberboard flat with joined strengthened corners for setting up into an angular tray and the set-up tray. 3,704,824, 12-5-72, Cl. 229-32.000.
Croll, Robert D.; and Sinclair, Gerald I., to Micromatic Hone Corporation. Cushion means between abrasive and expanders. 3,645,050, 2-29-72, Cl. 51-338.
Cromarty, Raymond. Diagnostic device and method. 3,688,763, 9-5-72, Cl. 128-2.00b.

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Cromer, George Philip, to General Electric Company. Battery coil construction having a ruffled edge electrode. 3,695,935, 10-3-72, Cl. 136-13.000.

Cromie, Harry W., to Baxter Laboratories, Inc. Prosthetic heart valve having a pair of support rings of dissimilar material. 3,691,567, 9-19-72, Cl. 3-1.000.

Cromleigh, Ralph G. Control system for multiple signal channels. 3,652,997, 3-28-72, Cl. 340-172.5.

Crompton & Knowles Corporation: *See—*
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Roberson, James H., 3,663,993.
Scott, Perry E., 3,680,182.

Crompton, Geoffrey, to Pressweld Limited. Wheel trims or wheel covers. 3,663,065, 5-16-72, Cl. 301-37.

Crompton, John L. F.: *See—*
Brooks, Geoffrey N.; and Crompton, John L. F., 3,702,199.

Crompton Parkinson Limited: *See—*
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Cromwell, Douglas E., to United States of America, Air Force. Jointed door assembly. 3,692,082, 9-19-72, Cl. 160-87.000.

Cronan, Charles J.: *See—*
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Cronenberger, Lucien: *See—*
Pacheco, Henri; Cronenberger, Lucien; Pillon, Daniel; and Thiolliere, Jean, 3,632,618.

Cronert, Dieter: *See—*
Rother, Wolfgang; Mordig, Eberhard; Wenzel, Erwin; Cronert, Dieter; Sand, Karl; Kasbohm, Joachim; Henicke, Heinz; Landmann, Helmut; and Stocker, Winfried, 3,701,881.

Cronig, Alvin, to Itek Corporation. Gel roller for use in photographic processing. 3,667,368, 6-6-72, Cl. 95-89.00a.

Cronig, Alvin, to Itek Corporation. Gel photo processing apparatus. 3,680,462, 8-1-72, Cl. 95-89.00r.

Cronin, Edward W., to Haskon, Inc., mesne. Extrusion process for polyolefin foam. 3,644,230, 2-22-72, Cl. 260-2.5.

Cronin, Edward W., to Hercules Incorporated. Method of reinforcing foam sheets. 3,649,731, 3-14-72, Cl. 264-47.

Cronin, Edward W., to Hercules Incorporated. Polyolefin foam utilizing polymerization deactivated catalyst and solvent as nucleating agent and blowing agent, respectively. 3,661,813, 5-9-72, Cl. 260-2.5.

Cronin, Frederick R.: *See—*
Ciecierski, Walter V.; Reymond, Welles K.; and Cronin, Frederick R., 3,632,882.

Cronin, John C., to I-T-E Imperial Corporation. Fault current limiter using superconductive element. 3,703,664, 11-21-72, Cl. 317-20.000.

Cronin, Leo J., to Spectra-Mat, Inc. Thermionic cathode comprising mixture of barium oxide, calcium oxide and lithium oxide. 3,656,020, 4-11-72, Cl. 313-346.

Cronin, Michael J., to Lockheed Aircraft Corporation. Flat cable electrical wiring system. 3,701,964, 10-31-72, Cl. 339-17.00f.

Cronin, Timothy H.: *See—*
Hess, Hans-Jurgen E.; and Cronin, Timothy H., 3,632,763.

Cronin, Timothy H., to Pfizer Inc. 3-Methyl-2-quinoxalinecarboxamide-di-n-oxides. 3,635,972, 1-18-72, Cl. 260-250.

Cronin, Timothy H., to Pfizer Inc. Process for the synthesis of substituted quinazolin-4-ones. 3,696,102, 10-3-72, Cl. 260-251.0qa.

Cronin, Timothy H.; and Hess, Hans-Jurgen E., to Pfizer Inc. 4-(Isoquinolin-1-yl) piperazine 1 carboxylic acid esters. 3,702,849, 11-14-72, Cl. 260-268.00c.

Cronk, Harold C., to Allied Chemical Corporation. Process for production of longitudinally oriented thermoplastic film. 3,659,000, 4-25-72, Cl. 156-229.

Cronkhite, Leonard W., Jr.: *See—*
Merrill, Edward W., 3,638,639.
Merrill, Edward W., 3,659,600.
Merrill, Edward W., 3,677,444.
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Merrill, Edward W., 3,683,626.

Cronkhite, Paul W., to Monsanto Company. Retaining trays for semiconductor wafers and the like. 3,661,253, 5-9-72, Cl. 206-65.00r.

Cronquist, Donald H., to International Business Machines Corporation. Tape transport mechanism. 3,653,568, 4-4-72, Cl. 226-97.

Cronquist, Donald Harry, to International Business Machines Corporation. Video strip file and system. 3,705,413, 12-5-72, Cl. 179-100.2pm.

Cronstedt, Val, to Avco Corporation. Damping means for differential gas turbine engine. 3,632,222, 1-4-72, Cl. 415-119.

Cronstedt, Val, to Avco Corporation. Multilayer ring damped turbomachine rotor assembly. 3,677,662, 7-18-72, Cl. 416-183.000.

Cronstedt, Val, to Avco Corporation. Damped turbomachine rotor assembly. 3,677,663, 7-18-72, Cl. 416-183.000.

Cronstedt, Val, to Teledyne Industries, Inc. Valve construction for variable compression ratio piston. 3,704,695, 12-5-72, Cl. 123-78.00b.

Croo, Robert-Justin: *See—*
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Crook, Edward J., Jr., to American Hoist & Derrick Company. Hook with gate. 3,653,102, 4-4-72, Cl. 24-241.

Crook, Edward J., Jr., to American Hoist & Derrick Company. Hook and collar with gate. 3,674,301, 7-4-72, Cl. 294-82.000.

Crook, James William: *See—*
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Crook, John B.: *See—*
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Crook, Richard D., to Industrial Problem Solves, Inc. Vane ejector tool. 3,673,668, 7-4-72, Cl. 29-254.000.

Crook, Stanley R. Marine fender. 3,693,572, 9-26-72, Cl. 114-219.000.

Crooke, Arthur W.; and Hanna, Michael E., Jr., to Sperry Rand Corporation. Digital waveform generator. 3,633,017, 1-4-72, Cl. 235-156.

Crookes, Le Roy W., to Ronson Corporation. Clutch mechanism. 3,644,990, 2-29-72, Cl. 30-34.1.

Crooks, Donald D.: *See—*
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Crooks, James W., to Allis-Chalmers Manufacturing Company. Auxiliary transmission. 3,673,890, 7-4-72, Cl. 74-681.000.

Crooks, James W. Reversing transmission. 3,685,371, 8-22-72, Cl. 74-792.000.

Crooks, Larry L.; and Stump, Walter. Imparting a satin like finish to one side of a fabric. 3,658,570, 4-25-72, Cl. 117-64.

Crooks, Ronald: *See—*
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Carver, Bryan George; and Crooks, Ronald, 3,685,572.

Crooks, Walter, to International Business Machines Corporation. Electrostatic imaging process wherein the developer includes boron nitride. 3,632,337, 1-4-72, Cl. 96-1.4.

Crookshank, Fred T., to Texaco Inc. Base coatings for launching lubricants. 3,647,693, 3-7-72, Cl. 252-57.

Crookston, Anthony J. Method of applying shingles. 3,638,388, 2-1-72, Cl. 52-74.

Crookston, James R. Mobile trash cart. 3,675,940, 7-11-72, Cl. 280-47.260.

Crookston, Ronald W.: *See—*
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Croon, Ingemar Liss-Albin: *See—*
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Croon, Ingemar Liss-Albin; Dillen, Sten Oskar; and Noreus, Sture Erik, to Mo och Domsjo Aktiebolag. Bleaching and delignification of partially delignified pulp with a mixture of chlorine and chlorine dioxide. 3,652,388, 3-28-72, Cl. 162-65.

Croon, Ingemar Liss-Albin; and Blomqvist, Nils Verner, to Mo och Domsjo Aktiebolag. Process for manufacturing cross-linked paper and viscose pulp and products produced according to the process. 3,700,549, 10-24-72, Cl. 162-157.00c.

Cropp, David. Golf cart. 3,704,758, 12-5-72, Cl. 180-19.00r.

Cropp, David I. Assembly machine. 3,670,385, 6-20-72, Cl. 29-203.00r.

Cropp, James P. Snow coaster. 3,632,124, 1-4-72, Cl. 280-12.

Crosby, Donald P.: *See—*
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Crosby, Donald P., to Sperry Rand Corporation. Digital fine-coarse servomechanism for a single element printer control system. 3,670,228, 6-13-72, Cl. 318-594.000.

Crosby, Gerald E.; and Shanefield, Daniel J., to Western Electric Company, Incorporated. Method for bonding a metal pattern to a substrate. 3,679,472, 7-25-72, Cl. 117-212.000.

Crosby, John J.: *See—*
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Crosby, Lenard J.: *See—*
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Crosby, Nobel W.; Walker, Robert C.; and Clarke, Gordon J., to Lacal Industries Limited. Cable clamp. 3,670,372, 6-20-72, Cl. 24-125.00n.

Crosby, Robert C.; and Holley, John D., to Marmon Group, Inc., The. Railroad tie shredder. 3,701,483, 10-31-72, Cl. 241-32.000.

Crose, Harvey L. Mixer. 3,672,640, 6-27-72, Cl. 259-6.000.

Croset, Louis Paul, to Forfors A.G. Flexible coupling. 3,638,454, 2-1-72, Cl. 64-14.

Crosfield Electronics Limited: *See—*
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Dobouney, Mouayed Edouard, 3,647,295.
Pugsley, Peter C.; and Dobouney, Mouayed Edouard, 3,634,611.

Croskery, William Fletcher, to Decca Limited. Electrical circuits assemblies. 3,634,159, 1-11-72, Cl. 156-3.
Crosland Filters Limited: *See—*
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Croslin, Michael E.; and Blackman, Carl R., to Grumman Data Systems Corporation, mesne. Dispensing apparatus and associated electronic control for selecting different modes of operation. 3,665,980, 5-30-72, Cl. 141-183.
Crosno, Philip M., to Cartridge Television, Inc. Servo system for video recorder. 3,662,099, 5-9-72, Cl. 178-6.6.
Croson, Eddie B., to United States of America, Navy. Photoresist processng method for fabricating etched microcircuits. 3,700,445, 10-24-72, Cl. 96-36.200.
Cross, A. T., Company: *See—*
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Cross, Alan, to Lummus Company, The. Fired heater. 3,667,429, 6-6-72, Cl. 122-240.00b.
Cross, Alexander D., to Syntex Corporation. 3β-Tetrahydrofuran-2'-yloxy-δ^4-steroids of the androstane and estrane series. 3,634,409, 1-11-72, Cl. 260-239.55.
Cross, Alexander D.; and Fried, John H., to Syntex Corporation. Novel hydrophenanthrene esters. 3,636,072, 1-18-72, Cl. 260-468.5.
Cross, Alexander D., to Syntex Corporation. 17β-Tetrahydropyranyl ethers of the 19-nor-Δ^4 and $\Delta^{5(10)}$-androstenes. 3,637,671, 1-25-72, Cl. 260-239.55.
Cross, Alexander D., to Syntex Corporation. 4-Oxa-3-keto-Δ^1-pregnene derivatives. 3,644,421, 2-22-72, Cl. 260-340.5.
Cross, Alexander D., to Syntex Corporation. Tetrahydropyranyl and tetrahydrofuranyl benzomorphan ethers. 3,647,806, 3-7-72, Cl. 260-293.54.
Cross Company, The: *See—*
Pfrommer, Fritz; and Bansal, Suresh A., 3,685,630.
Pierce, Guy Donald; and Runft, Rudi K., 3,698,056.
Cross, David F. W.: *See—*
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Cross, Dennis Rowland; and Stephens, Edward, to Lucas, Joseph, (Industries) Limited. Full wave rectifier assemblies. 3,665,287, 5-23-72, Cl. 321-8.
Cross, Edward A., to Texaco Inc. Corrosion-inhibiting compositions. 3,647,690, 3-7-72, Cl. 252-33.3.
Cross Europa-Werk GmbH: *See—*
Schubert, Paul, 3,700,345.
Cross, Floyd R. Pickup bed cover. 3,649,072, 3-14-72, Cl. 296-137.
Cross, Fred H.; and Deradoorian, Bagdasar, to Bendix Corporation, The. Channel multiplier assembly and method of manufacture thereof. 3,678,328, 7-18-72, Cl. 315-12.000.
Cross, Grosvenor M. Fluid engine. 3,704,080, 11-28-72, Cl. 417-486.000.
Cross, Henry Daniel, III: *See—*
Spangler, William Gilbert; and Cross, Henry Daniel, III, 3,700,401.
Cross, J. W., Co.: *See—*
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Cross, James M., to Mobay Chemical Company. Isomeric mixtures of methylcyclohexylene diisocyanate. 3,644,459, 2-22-72, Cl. 260-453.
Cross, John H.: *See—*
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Cross, Norton M., Jr.: *See—*
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Cross, Ralph Herbert, III, to Hoult, David Parks, Gross, Ralph H., III and Milgram, Jerome H. Oil removal device. 3,706,382, 12-19-72, Cl. 210-242.000.
Cross, Raymond E. Die casting machine. 3,646,990, 3-7-72, Cl. 164-304.
Cross, Robert A., to Amicon Corporation. Dialysis membrane and its use. 3,691,068, 9-12-72, Cl. 210-22.000.
Cross, Sidney E. Exhaust gas cleansing system. 3,691,772, 9-19-72, Cl. 60-320.000.
Cross, Walter G.: *See—*
Lynas, Derek L.; and Cross, Walter G., 3,641,550.
Cross, Walter Peter. Battery casting of concrete panels. 3,701,508, 10-31-72, Cl. 249-129.000.
Cross, William Gunn; and Tommasino, Luigi, to Atomic Energy of Canada Limited. Method and apparatus for counting radiation damage tracks in sheet material using a capacitive discharge device. 3,663,815, 5-16-72, Cl. 250-83.3cd.
Cross, William Telford: *See—*
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Crossen, Kenneth R., to EG&G, Inc. Point light source. 3,675,069, 7-4-72, Cl. 313-268.000.
Crosser, Orrin K.: *See—*
Schwaneke, Alfred E.; Falke, Wilbert L.; and Crosser, Orrin K., 3,675,310.
Crosser, Ralph W., Jr.: *See—*
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Crossland, Francis D., to Ford Motor Company. Adjustable cable assembly. 3,645,150, 2-29-72, Cl. 74-501.
Crosslen, Louis John, to Mayer, Frank, & Associates, Inc. Theft-proof merchandise display having holding adaptor. 3,661,273, 5-9-72, Cl. 211-169.
Crosslen, Louis John, to Mayer, Frank, & Associates, Inc. Tape cartridge dispenser. 3,672,480, 6-27-72, Cl. 194-92.000.
Crossley, Harry E.: *See—*
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Crosswy, Frank L.; and Kalb, Henry T., to United States of America, Air Force. Photomultiplier for a laser velocimeter. 3,695,761, 10-3-72, Cl. 356-28.000.
Crosta, David. Pollution preventive burner system. 3,660,006, 5-2-72, Cl. 431-168.
Croswell, William F.: *See—*
Bailey, Marion C.; and Croswell, William F., 3,638,224.
Crottaz, Roland: *See—*
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Crotty, Homer E.; and Zalzal, Michel T., to Chemed Corporation. Oven cleaner. 3,644,210, 2-22-72, Cl. 252-152.
Crotty, Homer E.; Coffey, Charles R.; and Tesdahl, Thomas C., to Chemed Corporation. Powder gelling composition. 3,655,579, 4-11-72, Cl. 252-316.
Crotty, Homer E.; Coffey, Charles R.; and Tesdahl, Thomas C., to Chemed Corporation. Chlorine stable powder gelling composition. 3,666,679, 5-30-72, Cl. 252-316.000.
Crotty, Homer E., to Chemed Corporation. Foamed detergent composition. 3,668,153, 6-6-72, Cl. 252-528.000.
Crotty, Homer Edward, to Grace, W. R., & Co. Foam cleaning additives, composition and methods. 3,639,283, 2-1-72, Cl. 252-98.
Crouch, Cyril Borthwick: *See—*
Arnold, Robert Harry; and Crouch, Cyril Borthwick, 3,642,272.
Crouch, Howard S.; Dickie, Hugh G.; Metcalfe, Albert H.; and Rigbey, Leo J., to International Business Machines Corporation. Magnetic disk assembly. 3,635,608, 1-18-72, Cl. 206-62.
Crouch, Rosalie Brooks; and Caunt, Anthony David. Alpha-olefin polymer composition and process for preparing same. 3,692,712, 9-19-72, Cl. 260-878.00r.
Crouch, Ross A., to Phillips Petroleum Company. Stationary mixture and method for mixing material. 3,643,927, 2-22-72, Cl. 259-4.
Crouch, Thomas J.; and Gynn, George E., to Syncro Corporation. Ignition adapter circuit. 3,704,397, 11-28-72, Cl. 317-157.600.
Crouch, Willie W., to Phillips Petroleum Company. Carbon black manufacture. 3,645,685, 2-29-72, Cl. 23-209.4.
Crouch, Willie W.; and Moberly, Charles W., to Phillips Petroleum Company. Recovery of solvent in arylene sulfide polymer production. 3,687,907, 8-29-72, Cl. 260-79.001.
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Crough, Paul E.: *See—*
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Crounse, Nathan N., to Sterling Drug Inc. Detergent compositions containing quaternary ammonium derivatives of N,N'-substituted 4,4'-bis (benzimidazol-2-YL)stilbenes. 3,642,642, 2-15-72, Cl. 252-543.
Crounse, Nathan N., to Sterling Drug Inc. Detergent compositions containing novel optical brightening agents. 3,689,425, 9-5-72, Cl. 252-117.000.
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Crovatt, Lawrence W., Jr.; and Durant, Dennis J., to Monsanto Company. Antistatic polycarbonamide filaments. 3,654,235, 4-4-72, Cl. 260-78.
Crovatt, Lawrence W., Jr.; and Garrett, Ullman C., Jr., to Monsanto Company. Polyamide filaments containing high viscosity antistatic agents. 3,666,731, 5-30-72, Cl. 260-78.00s.

Crovella, Edward A.; and Barfield, C. Verne, to Cardiac Electronics, Inc. Ectopic heartbeat detector. 3,672,353, 6-27-72, Cl. 128-2.06a.

Crovetti, Aldo J.: *See—*
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Crovetti, Aldo J.; and Winn, Martin, to Abbott Laboratories. Preparation of iodomethylsulfones. 3,663,623, 5-16-72, Cl. 260-607.

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Horrom, Bruce Wayne; and Crovetti, Aldo Joseph, 3,652,670.
Von Esch, Anne Mary; and Crovetti, Aldo Joseph, 3,660,390.

Crovetti, Aldo Joseph, to Abbott Laboratories. Diiodomethyl sulfones. 3,632,859, 1-4-72, Cl. 260-607.

Crovetti, Aldo Joseph; and Von Esch, Anne Mary, to Abbott Laboratories. 3,5-Disubstituted 1,2,4-oxadiazoles. 3,651,054, 3-21-72, Cl. 260-247.5.

Crovetti, Aldo Joseph; Germann, Richard Paul; and Blank, Artur, to Abbott Laboratories. Process for producing iodomethyl sulfones. 3,657,353, 4-18-72, Cl. 260-607.

Crow, Harold E.; Moffa, Joseph; and Berge, C. Frederick, to Armco Steel Corporation. Pipe and end attachment. 3,694,007, 9-26-72, Cl. 285-5.000.

Crow, Herman L.; Lu Conic, Andrew; Maloney, Patrick Martin; and Bluem, Gary Raymond, to Kroy Industries, Inc. Roller-band device. 3,643,048, 2-15-72, Cl. 200-153.

Crow, Morgan L., to Dresser Industries, Inc. Retaining pin and bearing assembly. 3,705,750, 12-12-72, Cl. 308-8.200.

Crow, Robert Palmer, to RCA Corporation. Sequential AGC system for signal receiver. 3,665,317, 5-23-72, Cl. 325-319.

Crow, Thomas G.: *See—*
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Crow, Thomas G., to International Laser Systems, Inc. High-inversion laser device having an impregnated flashtube jacket, an ultraviolet absorbing filter between the laser rod and the flashtube and a filter with the laser rod. 3,634,779, 1-11-72, Cl. 331-9.5.

Crowder, David Bickerton, to Flowcrete Limited. Production of prestressed concrete. 3,694,118, 9-26-72, Cl. 425-111.000.

Crowder, Wyly Kenneth. Instant action brake for vehicles. 3,683,718, 8-15-72, Cl. 74-562.500.

Crowe, Alan; and Fry, David P. Polyester moulding compositions. 3,652,489, 3-28-72, Cl. 260-40.

Crowe, Harold W., to Maxon Corporation. Valve actuating mechanism. 3,685,790, 8-22-72, Cl. 251-67.000.

Crowe, James A.; and Krattenmacher, Willi, to Beckman Instruments, Ltd. Liquid dispensing apparatus. 3,683,977, 8-15-72, Cl. 141-130.000.

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Crowe, Robert C.: *See—*
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Crowe, Talmadge L.: *See—*
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Crowe, William J.; and Geissler, Robert G., to Raytheon Company. Tunnel diode amplifier. 3,646,466, 2-29-72, Cl. 330-34.

Crowe, William P., to General Electric Company. Refrigerator cabinet with removable partition. 3,674,359, 7-4-72, Cl. 312-214.000.

Crowell, Jack R.; Tomashek, James R.; and Ward, Donald H., to Borg-Warner Corporation. Continuous casting mold level control. 3,670,801, 6-20-72, Cl. 164-154.000.

Crowell, Jack R., to Borg-Warner Corporation. Start-up system for continuous casting mold. 3,677,333, 7-18-72, Cl. 164-154.000.

Crowell, Merton Howard, to North American Philips Corporation. Solid state image sensing device. 3,679,826, 7-25-72, Cl. 178-7.100.

Crowell, Russell T.: *See—*
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Crowhurst, David B.; and Thomas, John E., to Lindsay Specialty Products Limited. Directional communication signal tap. 3,641,464, 2-8-72, Cl. 333-10.

Crowley, Charles L.; Grosholz, James R.; and Hutter, Charles G., III, to Air-Shields, Inc. Wound drainage equipment. 3,675,653, 7-11-72, Cl. 128-278.000.

Crowley, Donald P.: *See—*
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Crowley, George C., to Northern Electric Company. Universal blanket control. 3,649,813, 3-14-72, Cl. 219-492.

Crowley, George C., to Northern Electric Company. Glow switch relay for blanket overheat control system. 3,673,380, 6-27-72, Cl. 219-212.000.

Crowley, George C.; and Carlson, Gordon S., to Northern Electric Company. Thermostatless blanket control circuit. 3,673,381, 6-27-72, Cl. 219-212.000.

Crowley, Richard P. Embossed plastic surface covering and method of preparing same. 3,671,283, 6-20-72, Cl. 117-10.

Crowley, Richard P. Method of producing a needle punched non-cellular backed carpet. 3,686,046, 8-22-72, Cl. 156-72.000.

Crowley, Richard P. Method of preparing a tufted rug with cellular fibers. 3,694,873, 10-3-72, Cl. 28-72.000.

Crown City Plating Co.: *See—*
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Crown Imports Co., Inc.: *See—*
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Back, Sangho E.; and Marti, Rueben A., 3,647,618.
Brandon, Richard L., 3,653,895.
Cisney, Merle E., 3,699,172.
Elshout, Anthony L., 3,638,586.
Hartbauer, Ellsworth A.; and Erickson, John R., 3,648,431.
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Nussbaum, Henry A.; Rehr, Henry W.; and Tellier, Clair W., Jr., 3,643,939.
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Wagner, Gary L., 3,648,959.
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Yang, Christen H. C., 3,641,719.

Crownover, James D. Long wavelength infrared test set. 3,694,654, 9-26-72, Cl. 250-83.30h.

Crownover, Joseph W.; Wilhelm, John I.; and Thompson, Ray E. Electronic ranging apparatus with transmitter-receiver cycling. 3,696,419, 10-3-72, Cl. 343-13.00r.

Crowther, Henry Richard; and Hurst, Thomas P., to Maruyama Mfg., Co., Ltd. Spring washer. 3,631,910, 1-4-72, Cl. 151-38.

Crowther, Philip Simpson: *See—*
Austin, Christopher Frederic; Crowther, Philip Simpson; Warren, David; and Howitt, David, 3,651,666.
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Croyle, Jack V.: *See—*
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Swett, James B.; and Croyle, Jack V., 3,679,089.

Croyle, Jack V.; and Swett, James B., to Dart Industries Inc. Closure for open-mouthed containers or tubular vessels. 3,692,208, 9-19-72, Cl. 220-24.500.

Crucet, Arturo M., to Cerebro-Dynamics, Incorporated. Method and apparatus for confining and collecting oil leakage. 3,653,215, 4-4-72, Cl. 61-1.

Cruchant, Serge Alfred Joseph, to Societe de l'Aerotrain. Arrangement for securing walls together. 3,695,383, 10-3-72, Cl. 180-127.000.

Crucible Inc.: *See—*
Buehl, Russell C., 3,660,074.
Chandhok, Vijay Kumar, 3,700,435.
Colantuono, William R., 3,698,943.
Dulis, Edward J.; Kasak, August; and Stasko, William, 3,681,058.
Finlay, Walter L.; and Bomberger, Howard B., Jr., 3,645,727.
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Murphy, Joseph A., 3,645,718.
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Cruden, John L., Jr. Piped opening for use in a garment. 3,654,635, 4-11-72, Cl. 2-266.

Cruger, James P. Plural recorder and interspersing playback. 3,662,121, 5-9-72, Cl. 179-100.2.

Cruger, Richard E.; Anderson, Wilmer C.; Earls, David; and Windebank, Robert W., to General Time Corporation. Electromechanical oscillator using electret coupling. 3,652,955, 3-28-72, Cl. 331-116.
Cruger, Robert W.: *See—*
Burgess, Lester E.; Niemkiewicz, Ignatius J.; Cruger, Robert W.; and Charno, Ronald J., 3,666,310.
Cruger, Robert W.; and Silver, Floyd G., to Gulf & Western Industrial Products Company. Aircraft arresting apparatus. 3,695,559, 10-3-72, Cl. 244-110.00c.
Cruickshank, David G.; and Guerin, David T., to Leesona Corporation. Bobbin segregating and orienting apparatus. 3,672,542, 6-27-72, Cl. 221-161.000.
Cruickshank, David Graham; Epperson, James Philbert; Murray, William, Sr.; and Wydro, Richard Allen, Sr., to Western Electric Company, Incorporated. Simultaneous multiple lead bonding. 3,632,955, 1-4-72, Cl. 219-85.
Cruickshank, John S. Photo recording assembly. 3,688,676, 9-5-72, Cl. 95-86.000.
Cruickshank, John S. Photo recording assembly. 3,690,242, 9-12-72, Cl. 95-82.000.
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Cruse, Lee H., to Foster Manufacturing Co., Inc. Slide valve. 3,642,249, 2-15-72, Cl. 251-344.
Cruse, William M. Fluid actuated stage control system with fluid flow leadout signal. 3,697,047, 10-10-72, Cl. 254-141.000.
Crutcher-Resources Corporation: *See—*
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Crutchfield, Richard C., Jr.: *See—*
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Crutchfield, William Gayle. Instrument for use in the treatment of intracranial vascular disorders. 3,631,859, 1-4-72, Cl. 128-346.
Crutchfield, William Gayle. Skull tongs. 3,654,923, 4-11-72, Cl. 128-84.
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Cryer, Edward, to Lucas, Joseph, (Industries) Limited. Electrical switches. 3,651,288, 3-21-72, Cl. 200-44.
Cryer, Edward, to Lucas, Joseph, (Industries) Limited. Electrical switches. 3,670,116, 6-13-72, Cl. 200-633.000.
Cryer, John; Foster, Harold M.; and Rees, Thomas C., to Sherwin-Williams Company, The. Multiphase amination process of nitrophenols. 3,658,906, 4-25-72, Cl. 260-581.000.
Cryodry Corporation: *See—*
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Csaba, Gyorgy: *See—*
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Csakvary, Oscar: *See—*
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Csanad, George A. Vibrating apparatus for treatment of female disorders. 3,669,100, 6-13-72, Cl. 128-32.
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Csaszar, Janos; Nizsalovszky, Laszlo; and Tardos, Laszlo, to Chinoin Gyogyszer-es Vegyeszeti Termekek Gyara RT. Adduct of 5,5-dimethylhydantoin with chloral hydrate and its preparation. 3,652,582, 3-28-72, Cl. 260-309.5.
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CSF-Compagnie Generale de Telegraphie Sans Fil: *See—*
Bret, Georges; and Gires, Francois, 3,662,282.
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Csicsery, Sigmund M.; and Kittrell, James R., to Chevron Research Company. Hydrocracking catalyst comprising a layered clay-type aluminosilicate component, a group VIII component and iron, and process using said catalyst. 3,632,500, 1-4-72, Cl. 208-60.
Csicsery, Sigmund M.; Hickson, Donald A.; and Jaffe, Joseph, to Chevron Research Company. Catalyst comprising layered crystalline clay-type aluminosilicate component, and method of activating said catalyst. 3,640,904, 2-8-72, Cl. 252-455.
Csicsery, Sigmund M.; and Mulaskey, Bernard F., to Chevron Research Company. Catalytic isomerization process. 3,655,798, 4-11-72, Cl. 260-668.
Csizi, Gotthard: *See—*
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Csizmar, John R.; and Hebeler, Herbert A., to United States of America, Army. Gas operated firearm muzzle attachment. 3,687,000, 8-29-72, Cl. 89-14.00e.
Csizmas, Louis; and Patel, Virendra. Immunological reagent particles having proteinaceous materials covalently bonded thereto. 3,639,558, 2-1-72, Cl. 424-12.
Csontos, Louis J.; and Stonehouse, Albert James, to Brush Beryllium Company, The. Corrosion resistant beryllium bodies. 3,694,331, 9-26-72, Cl. 204-56.00r.
Csovak, Erno: *See—*
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Csupor, Denis D. A., to Maierform Holding S.A. Passive stabilisation tanks. 3,678,877, 7-25-72, Cl. 114-125.000.
Csurgay, Gregory, to U.S. Textile Machine Company. Magnetic stop motion device. 3,689,716, 9-5-72, Cl. 200-61.180.
Csuros, Zoltan; Petro, Jozsef; Mathe, Tibor; and Tungler, Antal, to Magyar Tudomanyos Akademia. Apparatus for the control of hydrogenation-dehydrogenation process on metal catalysts in the gas phase. 3,654,111, 4-4-72, Cl. 204-195.
Csuros, Zoltan; Petro, Jozsef; Tungler, Antal; Mathe, Tibor; and Bekassy, Sandor, to Mayyar Tudomanyos Akadenia. Process for the preparation of a nonpyrophoric nickel skeleton catalyst. 3,691,103, 9-12-72, Cl. 252-473.000.
C.T. & R.E., Inc.: *See—*
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CTA-Compagnie Industrielle de Textiles Artificiels et Synthetiques: *See—*
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Brady, Lynn J., 3,655,440.
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English, Jack A., 3,670,285.
Hartman, Clinton W., 3,665,365.
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Scott, Kelley E., Jr.; Kemper, Daryl M.; Grove, Lloyd E.; and Kiess, Ronald J., 3,656,217.
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Cubbon, Robert C. P.; Braid, John E.; and Hewlett, Colin, to Laporte Chemicals Limited. Peroxygen compound. 3,639,425, 2-1-72, Cl. 260-340.2.
Cubert, Jack S., to Sperry Rand Corporation. Transistor logic circuit with upset feedback. 3,654,486, 4-4-72, Cl. 307-214.
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Cuccio, Allen B. J., to Honeywell Information Systems Inc. Code conversion device for multiple terminal data editing display system. 3,653,028, 3-28-72, Cl. 340-324.
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Cuckson, Kenneth; and Chapman, Gerald W., to Rolls-Royce Limited. Method of treating a length of material. 3,664,900, 5-23-72, Cl. 156-174.000.
Cuculis, John J.; Meyer, Howard G.; Sim, Van M.; and Sternberger, Ludwig A., to United States of America, Army. Toxic chemical vaccines. 3,642,981, 2-15-72, Cl. 424-88.
Cuculo, John Anthony, to Du Pont de Nemours, E. I., and Company. Modifying cellulosic fabric with dicarboxylic acids to impart water-dispersibility. 3,671,184, 6-20-72, Cl. 8-120.000.
Cuda, Charles H. Timed variable output pump. 3,675,498, 7-11-72, Cl. 74-55.000.
Cuddihy, Richard G. Vehicle self tracking system. 3,681,752, 8-1-72, Cl. 340-24.000.
Cuenoud, Gerard; and Addoutte, Roland, to Dunlop Holdings Limited. Conveyors. 3,693,549, 9-26-72, Cl. 104-25.000.
Cuevas, Ephraim A., to PPG Industries, Inc. Removal of dissolved lead from alkali metal chloride containing solutions. 3,671,187, 6-20-72, Cl. 23-89.000.
Cuff, David W.; and De Baryshe, Paul G., to American Optical Corporation. Athermalization of laser rods. 3,660,779, 5-2-72, Cl. 334-94.5.
Cuffaro, Antonino; Castronovo, Francesco; Bruno, Achille; and Rancati, Gianluigi, to Medil, S.p.A. Method for manufacturing artificial marble. 3,670,060, 6-13-72, Cl. 264-77.000.
Cuir, Gerard: *See—*
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Cuir, Jean Pierre; and Cuir, Gerard. Apparatus for cutting sheet material. 3,695,132, 10-3-72, Cl. 83-98.000.
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Culbert, Robert M.; and Southworth, Richard V., to Farr Company. Air filter for trucks. 3,641,744, 2-15-72, Cl. 55-319.
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Culbertson, Billy M.; McKillip, William J.; and Sedor, Edward A., to Ashland Oil, Inc. Vinyl aromatic aminimides. 3,641,145, 2-8-72, Cl. 260-558.
Culbertson, Billy M., to Ashland Oil & Refining Company. Amide oxadiazole polymers and polymer precursors. 3,642,711, 2-15-72, Cl. 260-78.
Culbertson, Billy M., to Ashland Oil & Refining Company. Heterocyclic polyimides prepared from heterocyclic diamines. 3,661,849, 5-9-72, Cl. 260-47.
Culik, Rudolf; and Schneider, Jurg A., to Du Pont de Nemours, E. I., and Company. Anticholinergic compositions containing certain thiazolines or imidazolines. 3,636,219, 1-18-72, Cl. 424-265.
Culik, Rudolf; and Schneider, Jurg A., to Du Pont de Nemours, E. I., and Company. Composition comprising arylaminooxazoline and antichloligeneric agent. 3,679,798, 7-25-72, Cl. 424-265.000.
Culkowski, Edwin M.; Gore, Donald B.; and Kassay, Andrew W., to Allied Chemical Corporation. Process for preparing amino aldehyde molding compositions. 3,686,105, 8-22-72, Cl. 260-17.300.
Cull, Duncan E.; and Culbertson, Alvin E., to National Cash Register Company, The. Character coding, memory, and display system. 3,668,661, 6-6-72, Cl. 340-172.5.
Cull, Neville L.: *See—*
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Cull, Neville L.; Bearden, Roby, Jr.; and Mertzweiller, Joseph K., to Esso Research and Engineering Company. Process for producing linear alpha olefins. 3,637,897, 1-25-72, Cl. 260-683.15d.
Cull, Neville L.; Bearden, Roby, Jr.; and Mertzweiller, Joseph K., to Esso Research and Engineering Company. Process utilizing base aromatic modified catalyst for wax production. 3,660,518, 5-2-72, Cl. 260-683.15.
Cullen, Allen F.: *See—*
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Cullen, James A. Book jacketing device. 3,706,107, 12-19-72, Cl. 11-1.000.
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Cullen, Robert E. Sinker release method and apparatus. 3,659,372, 5-2-72, Cl. 43-44.880.
Cullen, Roy H.; Aker, Jimmie R.; and Burke, William E., to Youngstown Sheet and Tube Company. Drilling apparatus. 3,669,199, 6-13-72, Cl. 175-106.000.
Cullen, Roy H.; and Elliott, Charles H., to Youngstown Sheet and Tube Company. Method for wire-wrapping pipe. 3,673,785, 7-4-72, Cl. 57-161.000.
Culligan International Company: *See—*
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Lyall, Charles E.; and Rak, Stanley F., 3,695,446.
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Cullinane, Claude, Jr., to Zink, John, Company. Air flow control for flare stack. 3,662,669, 5-16-72, Cl. 98-60.
Cullis, Brian D.: *See—*
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Cullom, John T. Process for autogenous smelting of copper ore concentrates and charge product therefor. 3,669,646, 6-13-72, Cl. 75-74.000.
Cullom, John T. Process for producing copper and elemental sulfur. 3,703,366, 11-21-72, Cl. 75-74.000.
Culp, Duane. Pressure discharge waste disposal apparatus. 3,698,019, 10-17-72, Cl. 4-10.000.
Culp, Gordon L.: *See—*
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Culter, John C.; and McClaflin, Gifford G., to Continental Oil Company. Method of friction loss reduction in oleaginous fluids flowing through conduits. 3,692,676, 9-19-72, Cl. 252-8.55r.
Culture Europeenne, Societe Anonyme (Cidice): *See—*
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Culvenor, Claude Charles Joseph; Edgar, John Alexander; Smith, Leslie Walter; Tweeddale, Helen Joan; Jago, Marjorie; and French, Eric Ancelot, to Commonwealth Scientific and Industrial Research Organization. 6,7-Dihydro-5h-pyrrolizines and method of prepartion. 3,705,905, 12-12-72, Cl. 260-326.50r.
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Culver, Paul L., to United States of America, Navy. Electrical connector assembly. 3,662,319, 5-9-72, Cl. 339-28.
Culver, Richard D., to Dresser Industries, Inc. Differential pulse height discriminator. 3,668,426, 6-6-72, Cl. 307-235.000.
Culver, William H.; and Mehran, Farrokh, to International Business Machines Corporation. Fast logic using ultra-short laser pulses. 3,643,116, 2-15-72, Cl. 307-312.
Culver, William Harry, to Pennsalt Chemicals Corporation. Corrosion protection of buried metal objects. 3,702,262, 11-7-72, Cl. 117-121.000.
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Peterson, Russell I., Jr., 3,643,880.
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Cumella, Charles; and Cutrone, Joseph, to Federal Casters Corporation. Caster pad. 3,667,085, 6-6-72, Cl. 16-30.000.
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Cumming, Edward Perry: *See—*
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Cummings, Gilbert A., to Peters & Company, Inc. Dispensing apparatus. 3,694,044, 9-26-72, Cl. 312-71.000.
Cummings, Harold K., to Bunker-Ramo Corporation, The. Construction and method of making electrical connection. 3,688,395, 9-5-72, Cl. 29-605.000.
Cummings, John G., to Oak Electro/Netics Corporation. Multiple clutches for a TV tuner. 3,688,885, 9-5-72, Cl. 192-95.000.
Cummings, John P.; and Berg, Richard E., to Honeywell Inc. Electrochemical oxygen demand system. 3,676,321, 7-11-72, Cl. 204-195.00r.
Cummings, John P.; and Gomoll, Timothy J., to Owens-Illinois, Inc. Inert gas shield for atomic absorption or flame emission spectrometer. 3,698,643, 10-17-72, Cl. 239-299.000.
Cummings, Lowell O., to Pacific Vegetable Oil Corporation. Manufacture of maleyl-fatty acid adduct. 3,639,650, 2-1-72, Cl. 260-18.
Cummings, Lowell O., to Pacific Vegetable Oil Corporation. In situ process for trans-isomerization and conjugation of resins containing fatty acid esters. 3,668,159, 6-6-72, Cl. 260-18.
Cummings, Lowell O., to Pacific Vegetable Oil Corporation. Method and apparatus for continuous production of oil-in-water emulsions. 3,669,900, 6-13-72, Cl. 252-359.00c.
Cummings, Paul Gene, to General Electric Company. Method and apparatus for starting a large inertia dynamoelectric machine. 3,686,550, 8-22-72, Cl. 318-148.000.
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Hutterer, Martin, 3,641,792.
Cummins, Alfred B. Exerciser propelled and body supporting spring biased platform. 3,659,844, 5-2-72, Cl. 272-58.
Cummins, Alfred B. Centered platform type play exerciser. 3,693,998, 9-26-72, Cl. 280-87.010.
Cummins, Billy H.: *See—*
Coleman, Richard L.; Cummins, Billy H.; and Ashton, William B., 3,684,684.
Cummins, Billy H., to Texaco Inc. Production of improved lubricating oils. 3,652,448, 3-28-72, Cl. 208-87.
Cummins, Billy H., to Texaco Inc. Production of improved lubricating oils by hydrocracking and solvent extraction. 3,660,273, 5-2-72, Cl. 208-96.
Cummins, Billy H.; Ashton, William B.; Coleman, Richard L.; and Odell, Norman R., to Texaco Inc. Production of lubricating oils including hydrofining an extract. 3,702,817, 11-14-72, Cl. 208-87.000.
Cummins, Donald L.: *See—*
Campbell, Robert W.; and Cummins, Donald L., 3,667,025.
Cummins Engine Company, Inc.: *See—*
Kamo, Roy, 3,687,122.
Schueler, Carl A., 3,680,468.
Wilson, Harry L., 3,656,412.
Cummins, Stewart E. Electron beam controlled bistable ferroelectric light valve. 3,702,215, 11-7-72, Cl. 350-150.000.
Cummisford, Patricia D.; and Beck, Charles I., to General Mills, Inc. Double expanded food products. 3,703,379, 11-21-72, Cl. 99-81.000.
Cundiff, J. Howard, Jr.: *See—*
Nichols, Edgar B.; and Cundiff, J. Howard, Jr., 3,688,431.
Cuneo, Ambrogio: *See—*
Sala, Sergio; Cuneo, Ambrogio; and Dabisch, Wolfgang, 3,664,869.
Cuneo, Anthony L.: *See—*
Raudat, John L.; Johnson, Lloyd D.; and Cuneo, Anthony L., 3,635,322.
Cuneo, Joseph J.: *See—*
Basile, Norman K.; and Cuneo, Joseph J., 3,659,543.
Cunha, Harold; and Kostrzewski, James A., to Itek Corporation. Container replacement system. 3,698,454, 10-17-72, Cl. 141-375.000.
Cunliffe, Alwyn: *See—*
Gordon, Stuart; Evans, Geoffrey Ian; and Cunliffe, Alwyn, 3,678,138.
Cunn, Arthur. Bomb blanket. 3,648,613, 3-14-72, Cl. 102-22.
Cunning, Alfred C.; and Wolverton, Harry D., to General Motors Corporation. Throttle valve gauge. 3,640,128, 2-8-72, Cl. 73-118.
Cunningham, Arthur L., to Sherwin-Williams Company, The. Condensed linear polyesters and coatings containing same. 3,686,360, 8-22-72, Cl. 260-850.000.
Cunningham, Arthur L., to Sherwin-Williams Company, The. Coating composition containing urethan-modified epoxidized ester and polycarboxylic acid material. 3,699,061, 10-17-72, Cl. 260-18.0pt.
Cunningham, Arthur L., to Sherwin-Williams Company, The. Carboxylic curing agent. 3,699,064, 10-17-72, Cl. 260-22.0ep.
Cunningham, Brian Charles, to Broken Hill Associated Smelters Properitary Limited, The. Method of sintering of mineral sulphides. 3,649,244, 3-14-72, Cl. 75-5.
Cunningham, Cecil R. Deep fat fryer assembly. 3,685,433, 8-22-72, Cl. 99-408.000.
Cunningham, Cecil R.; and Rushton, James C., to Owens-Corning Fiberglas Corporation. Method for packaging glass strands. 3,687,381, 8-29-72, Cl. 242-18.00r.
Cunningham, Cecil R.; Beach, William R.; and Brinkley, Ray D., to Owens-Corning Fiberglas Corporation. Twist frame apparatus. 3,693,338, 9-26-72, Cl. 57-75.000.
Cunningham, Donald M.: *See—*
Drugmand, Lester D.; and Cunningham, Donald M., 3,644,710.
Cunningham, Douglas J. Safety seat belts for vehicles. 3,693,221, 9-26-72, Cl. 24-230.0av.
Cunningham, Elmer E.: *See—*
Greenspan, Gilbert; Curtis, Lawrence R.; Cunningham, Elmer E.; and Tabler, James G., 3,678,277.
Cunningham, Elmer Harold. Guidebar. 3,638,322, 2-1-72, Cl. 33-81.
Cunningham, Ernest R.: *See—*
Owen, Ronald C.; and Cunningham, Ernest R., 3,688,935.
Cunningham, Ernest R., to Barr-Stalfort Company; division of Pittway Corporation. Liquid transfer system. 3,642,037, 2-15-72, Cl. 141-348.
Cunningham, Ernest R.; and Stockdale, William D., to Illinois Tool Works Inc. Method of making container carrier structure. 3,687,020, 8-29-72, Cl. 93-35.00j.
Cunningham, Ethel Peggy: *See—*
Winburn, Lloyd Earl; and Cunningham, Jack B., 3,687,729.
Cunningham, Frank W. Power cutter. 3,670,412, 6-20-72, Cl. 30-276.000.
Cunningham, Gerald A., to Blockils, Inc. Pulley block. 3,705,708, 12-12-72, Cl. 254-195.000.
Cunningham, Gerald Robert; and Wooddy, Lemuel Dale, Jr., to Esso Production Research Company. Pollution containment barrier. 3,702,657, 11-14-72, Cl. 210-242.000.
Cunningham, Henry L., to Hardinge Brothers, Inc. Hydraulic system for limiting deflection of a piston stop. 3,662,651, 5-16-72, Cl. 91-165.
Cunningham, Hugh: *See—*
Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, 3,650,919.
Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, 3,650,939.
Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, 3,657,098.
Raetzsch, Carl W.; and Cunningham, Hugh, 3,677,927.
Cunningham, Isaiah V. Apparatus for use in subterranean excavation. 3,650,116, 3-21-72, Cl. 61-85.
Cunningham, Jack B.: *See—*
Winburn, Lloyd Earl; and Cunningham, Jack B., 3,687,729.
Cunningham, James: *See—*
Epstein, Paul; Cunningham, James; Wernikoff, Robert E.; and Rosen, George, 3,646,257.
Cunningham, James A.: *See—*
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Cunningham, James A.; Fuller, Clyde R.; and Wood, Samuel J., Jr., to Texas Instruments, Incorporated. Method of forming a composite insulating layer. 3,647,663, 3-7-72, Cl. 204-192.
Cunningham, James A.; Fuller, Clyde R.; Hooper, Robert C.; and Wakefield, Robert H., to Texas Instruments, Incorporated. Metallization system for semiconductors. 3,654,526, 4-4-72, Cl. 317-234.
Cunningham, James A.; and Corr, Coy D., to Texas Instruments, Incorporated. Ohmic contacts for semiconductors devices. 3,667,005, 5-30-72, Cl. 317-234.
Cunningham, James B., to General Steel Industries, Inc. Anchor link. 3,636,885, 1-25-72, Cl. 105-157.
Cunningham, James M., to International Business Machines Corporation. Type mounting means for high speed front printer. 3,653,321, 4-4-72, Cl. 101-93.
Cunningham, John Andrew: *See—*
Dixon, David Rodney; and Cunningham, John Andrew, 3,637,633.
Cunningham, M. E., Company: *See—*
Speicher, Edwin W., 3,636,871.
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Cunningham, Omar Leo, Jr., to Stromberg Datagraphix, Inc. Film gate. 3,700,318, 10-24-72, Cl. 352-225.000.
Cunningham, Paul E. Barrel speaker enclosure. 3,638,753, 2-1-72, Cl. 181-31.

Cunningham, Robert A.; and Winkler, John T., to Martin-Marietta Corporation. Laser tracking method and apparatus. 3,696,248, 10-3-72, Cl. 250-203.00r.

Cunningham, Robert E.: *See—*
Haley, David J.; Cunningham, Robert E.; and Privott, Wilbur J., Jr., 3,677,481.

Cunningham, Robert Ernest: *See—*
Dunn, Stanley A.; Rakestraw, Lawrence F.; and Cunningham, Robert Ernest, 3,658,979.

Cunningham, Robert G.: *See—*
Whitmore, Thomas C.; and Cunningham, Robert G., 3,671,806.
Whitmore, Thomas C., Jr.; and Cunningham, Robert G., 3,670,203.

Cunningham, Ronald J. Induction heating apparatus. 3,637,970, 1-25-72, Cl. 219-10.75.

Cunningham, Victor Ralph; and Dodson, Thomas Stanley, to Porous Plastics Limited. Process for preparing microporous polyurethane resin sheets by casting the resin on a porous sintered thermoplastic polymeric resin support surface. 3,696,180, 10-3-72, Cl. 24-48.000.

Cunningham, Walter F., to Superior Tabbies Incorporated. Laminated index tab construction. 3,691,662, 9-19-72, Cl. 40-23.00a.

Cunningham, William G. Underwater welding device. 3,671,707, 6-20-72, Cl. 219-74.000.

Cuomo, Jerome J., to International Business Machines Corporation. Method of selective chemical vapor deposition. 3,697,342, 10-10-72, Cl. 156-13.000.

Cuomo, Jerome J.; and Laff, Robert A., to International Business Machines Corporation. Method of selective chemical vapor deposition. 3,697,343, 10-10-72, Cl. 156-13.000.

Cuomo, Jerome J.; Mayadas, Ashok F.; and Rosenberg, Robert, to International Business Machines Corporation. Method for improving adhesion between conductive layers and dielectrics. 3,704,166, 11-28-72, Cl. 117-217.000.

Cupit, George Moffat. Toilet pan connector. 3,680,896, 8-1-72, Cl. 285-177.000.

Cupler, John A., II. Apparatus for conducting machining operations. 3,663,998, 5-23-72, Cl. 29-26.00a.

Cupler, John A., II. Adjustable vee bearing. 3,679,273, 7-25-72, Cl. 308-36.000.

Cupler, John A., II. Tool changer employing automatic work indexing mechanism. 3,681,829, 8-8-72, Cl. 29-26.00a.

Cupler, John A., II. Multiple drill head. 3,687,564, 8-29-72, Cl. 408-47.000.

Cupler, John A., II. Mechanical/nonmechanical machining center. 3,688,075, 8-29-72, Cl. 219-121.0eb.

Cupler, John A., II. Cone cam assembly. 3,691,855, 9-19-72, Cl. 74-55.000.

Cupler, John A., II. Tool infeeding mechanism. 3,700,342, 10-24-72, Cl. 408-17.000.

Cupler, John A., II. Vee machining center. 3,704,073, 11-28-72, Cl. 408-1.000.

Cuplip, John A., II. Method of performing sequential non-mechanical and mechanical machining operations along a common centerline and mechanical. 3,696,504, 10-10-72, Cl. 29-558.000.

Cupp, Frederick B.; and Whiting, John S., to General Dynamics Corporation. Information handling system especially for magnetic recording and reproducing of digital data. 3,641,506, 2-8-72, Cl. 340-172.5.

Cupp, Richard E.: *See—*
Corcoran, Vincent J.; Cupp, Richard E.; and Gallagher, James J., 3,689,851.

Cupples, Barrett L.: *See—*
Ahn, Yong Kee; Cupples, Barrett L.; and Murphy, Clarence R., 3,686,285.
Ahn, Yong Kee; Cupples, Barrett L.; and Murphy, Clarence R., 3,686,286.

Cupples, Barrett L.; and Murphy, Clarence R., to Gulf Research & Development Company. Separation of alkyl bromides from the corresponding carbon number alcohol by distillation with water. 3,640,852, 2-8-72, Cl. 203-96.

Cupples, Barrett L.; Murphy, Clarence R.; and Walsh, William L., to Gulf Research & Development Company. Separation of dry HBr from a dilute aqueous solution of HBr. 3,686,076, 8-22-72, Cl. 203-12.000.

Cupples Container Co.: *See—*
Schwoegler, Edward J., 3,650,992.
Schwoegler, Edward J.; and Ronden, Clifford P., 3,682,844.

Curbmaster of America, Inc.: *See—*
Larsen, Richard D.; and Miller, Harold E., 3,635,131.

Curby, William A.: *See—*
Bannister, William W.; Pennace, John R.; and Curby, William A., 3,684,733.

Cureton, Glen L., to Chattem Drug & Chemical Company. Squeeze bottle with means for locating end of delivery tube. 3,666,182, 5-30-72, Cl. 239-327.

Curfman, Don Carl, to Borg-Warner Corporation. Graft copolymers of styrene, acrylonitrile and methyl acrylate onto diene polymers and blends thereof with vinyl chloride resins. 3,657,391, 4-18-72, Cl. 260-876.

Curiel, Raymond F. Coiffeur decorating apparatus. 3,675,005, 7-4-72, Cl. 240-2.000.

Curington, Alfred R., to Baker Oil Tools, Inc. High frequency pneumatically actuated drilling hammer. 3,692,122, 9-19-72, Cl. 173-119.000.

Curington, Wayne C.; Fisher, Edmund A.; and Taylor, William M., to Cameron Iron Works, Inc. Method and apparatus for use in drilling a well. 3,688,840, 9-5-72, Cl. 166-.600.

Curlator Corporation: *See—*
Wood, Dennis E., 3,669,823.

Curlee Clothing Company: *See—*
Spencer, William L.; and Juenger, Richard D., 3,687,277.

Curlook, Walter: *See—*
Huggins, David Anthony; and Curlook, Walter, 3,672,873.

Curlook, Walter; and Bell, James Alexander Evert, to International Nickel Company, Inc., The. Rotary kiln reduction of limonitic ores. 3,656,934, 4-18-72, Cl. 75-82.

Curnow, John W., to Sperry Rand Corporation. Power transmission. 3,683,958, 8-15-72, Cl. 137-489.000.

Curr, Maurice D., to Deutsch Company Electronics Components Division, The. Socket contact for electrical connector. 3,654,595, 4-4-72, Cl. 339-256.

Curran, Bernard E.; Gartner, Rodney W.; and Lindner, Robert G., to Robertson, H. H., Company. Method of making an insulated building panel unit. 3,690,987, 9-12-72, Cl. 156-257.000.

Curran, Edward T.; and Stull, Frank D., to United States of America, Air Force. Dual mode supersonic combustion ramjet engine. 3,667,233, 6-6-72, Cl. 60-270.000.

Curran, Frank J., to Curran, Frank J., Co. Hanger for deodorant and/or cleaner bars. 3,668,717, 6-13-72, Cl. 4-231.000.

Curran, Frank J., Co.: *See—*
Curran, Frank J., 3,668,717.

Curran, John H.: *See—*
Benoit, Roland A.; and Curran, John H., 3,649,973.

Curran, John Patrick, to Amchem Products, Inc. Metal treating process. 3,684,588, 8-15-72, Cl. 148-6.152.

Curran, John R., to Foxboro Company, The. Valve structure. 3,648,718, 3-14-72, Cl. 137-269.

Curran, Michael G. Shock absorbing bumper. 3,690,710, 9-12-72, Cl. 293-71.00r.

Curran, Robert E.; Robertson, Glenn D., Jr.; and Ketchpel, Richard D., to Hughes Aircraft Company. Multielement conductive faceplate. 3,698,884, 10-17-72, Cl. 65-43.000.

Curran, Robert J., to Borg-Warner Corporation. Belt retractor and locking mechanism. 3,692,253, 9-19-72, Cl. 242-107.400.

Curran, Robert Kryan; and Kerwin, Robert E., to Bell Telephone Laboratories, Incorporated. Method and apparatus for characterizing photoresist. 3,631,772, 1-4-72, Cl. 95-1.

Curran, Robert Kryan; and Rankel, Lillian Ann, to Bell Telephone Laboratories, Incorporated. Technique for increasing the speed of dichromated gelatin. 3,660,090, 5-2-72, Cl. 96-49.

Curran, Robert Kyran; Kerwin, Robert Eugene; and Shankoff, Theodore Arthur, to Bell Telephone Laboratories, Incorporated. Electrolytic printing using polyvinyl alcohol. 3,655,527, 4-11-72, Cl. 204-2.

Curran, Roger J., to Remington Arms Company, Inc. Shotgun shell with metal cap. 3,656,434, 4-18-72, Cl. 102-43.

Curran, William Vincent; and Goldman, Leon, to American Cyanamid Company. Tetracyclic isoquinoline derivatives. 3,673,189, 6-27-72, Cl. 260-289.00r.

Curran, William Vincent; Ross, Adma Schneller; and Tomcufcik, Andrew Stephen, to American Cyanamid Company. Method of lowering blood pressure in mammals. 3,689,652, 95-72, Cl. 424-250.000.

Current Industries, Incorporated: *See—*
Barrett, Robert W.; and Preese, Pat S., 3,673,589.
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Current, James H.: *See—*
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Current, James H.; and Kilgore, Marion D., to Camco, Incorporated. Slip assembly for a well tool. 3,643,737, 2-22-72, Cl. 166-216.

Current, James H., to Camco, Incorporated. Sliding sleeve assembly for a hydraulically set well packer. 3,645,335, 2-29-72, Cl. 166-179.

Current, James H.; and Kilgore, Marion D., to Camco, Incorporated. Sliding sleeve assembly for a hydraulically set well packer. 3,661,207, 5-9-72, Cl. 166-120.000.

Current, John Marvin: *See—*
Helmick, James William; Goebel, Brownell Wesley; and Current, John Marvin, 3,682,746.

Current, John Marvin; and Smalley, Rodney Roger, to Johns-Manville Corporation. Method for feeding and wrapping sheet material. 3,695,965, 10-3-72, Cl. 156-187.000.

Current, Wayne A.: *See—*
Cowdrey, Roy M.; and Current, Wayne A., 3,698,087.

Currie, Bruce L.: *See—*
Robins, Morris J.; and Currie, Bruce L., 3,705,147.

Currie, James H.; and Mick, Stanley H., to General Motors Corporation. Internal combustion engine with vented piston clearance spaces and method. 3,667,443, 6-6-72, Cl. 123-193.00p.
Currie, William E., to Honeywell Inc. P.P.I. display utilizing magnetic recording apparatus. 3,699,587, 10-17-72, Cl. 346-74.00m.
Currier, Jonathan E.; and Williams, Donald B. Machine for automatically feeding, cover applying, sealing, and trimming, filled packages. 3,685,254, 8-22-72, Cl. 53-329.000.
Currier, Robert G.: *See—*
Hayes, John T.; and Currier, Robert G., 3,670,504.
Currier, Robert Lee: *See—*
Genson, Samuel Richard; Petersen, Svend Aage; and Currier, Robert Lee, 3,695,523.
Curriston, Loren E.; and Perry, Alden P., to North American Rockwell Corporation. Torque generator. 3,691,853, 9-19-72, Cl. 74-5.340.
Curry, Duncan Cuthbertson: *See—*
Lawley, Herbert George; Kerr, Robert; and Curry, Duncan Cuthbertson, 3,658,920.
Curry, James E., to Cross, A. T., Company. Penholder assembly. 3,655,062, 4-11-72, Cl. 211-69.6.
Curry, John J. Combined container and closure. 3,690,503, 9-12-72, Cl. 220-39.00r.
Curry, Joseph E., to Texas Instruments, Incorporated. Frequency modulation demodulator. 3,683,288, 8-8-72, Cl. 329-104.000.
Curry, Kenneth C.: *See—*
United States of America, National Aeronautics and Space Administration, 3,632,140.
Curry, Nolan A.: *See—*
Malloy, John F.; Curry, Nolan A.; and Olton, Dirck J., 3,665,660.
Curry, Norval: *See—*
Blough, Ronald S.; and Curry, Norval, 3,677,229.
Curry, Renwick E.: *See—*
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Curry, Robert Clay: *See—*
Pugh, Carl Starner, Jr.; and Curry, Robert Clay, 3,660,219.
Curry, Robert E. Controllable key lock. 3,670,538, 6-20-72, Cl. 70-271.000.
Curry, Robert W.: *See—*
Stults, Richard L.; and Curry, Robert W., 3,641,266.
Curry, Robert W., III, to General Electric Company. Ice maker. 3,654,772, 4-11-72, Cl. 62-353.
Curry, Stephen M.; and Williams, Philip A. Appliance theft prevention alarm system. 3,633,199, 1-4-72, Cl. 340-280.
Curry, Walter John. Foldable tow-wheel dolly. 3,659,867, 5-2-72, Cl. 280-36.
Curtess, Joan. Prefabricated building structure. 3,685,222, 8-22-72, Cl. 52-90.000.
Curtice, Beverly A.; and Harnsberger, Bobby G., to Texaco Inc. Method and composition for stabilizing incompetent oil containing formations. 3,646,998, 3-7-72, Cl. 166-276.
Curtin, Dennis Edward; and Hansen, John Edward, to Du Pont de Nemours, E. I., and Company. Brush bristles. 3,706,111, 12-19-72, Cl. 15-159.00a.
Curtin, Frank M. Spindle release holder for roll products. 3,643,884, 2-22-72, Cl. 242-55.2.
Curtin, John L., to Minnesota Mining and Manufacturing Company. Color proofing method. 3,682,633, 8-8-72, Cl. 96-27.000.
Curtin, William J. Ultrasonic paging system. 3,657,715, 4-18-72, Cl. 346-311.
Curtis & Marble Machine Company: *See—*
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Shedyak, Albert T., 3,695,533.
Curtis, Anthony John: *See—*
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Curtis, Anthony John; Jaggers, Brian George; and Janes, John Francis, to Bush Boake Allen Limited. Isolongifoline esters. 3,647,847, 3-7-72, Cl. 260-489.
Curtis, Arthur E., to International Paper Company. Method and apparatus for lidding cartons. 3,634,995, 1-18-72, Cl. 53-38.
Curtis, Charles E., to Curtis Chick Service, Inc. Folding pen construction. 3,651,851, 3-28-72, Cl. 160-135.
Curtis Chick Service, Inc.: *See—*
Curtis, Charles E., 3,651,851.
Curtis, Daniel L., to National Aeronautics & Space Administration under the provisions of 42 USC. 2457(d). Life support system. 3,635,216, 1-18-72, Cl. 128-142.5.
Curtis, Daniel L., to Litton Systems, Inc. Emergency oxygen rebreather system. 3,650,269, 3-21-72, Cl. 128-212.
Curtis, Daniel L. Therapeutic shower head. 3,664,585, 5-23-72, Cl. 239-222.210.
Curtis, Earl M.; and Pardon, Roger E., to Torrington Company, The. Ball and socket bearing. 3,666,331, 5-30-72, Cl. 308-72.000.
Curtis, George F.; and Tatro, Henry J., Jr., to Colts Inc. Machine gun. 3,688,641, 9-5-72, Cl. 89-198.000.
Curtis, George G., to Esso Research and Engineering Company. Extreme pressure greases. 3,639,237, 2-1-72, Cl. 252-13.
Curtis, George G., to Esso Research and Engineering Company. Synergistic grease structure modifiers. 3,658,704, 4-25-72, Cl. 252-42.
Curtis, George L.; Riesenberg, James H.; and Kelly, Ralph E., to Pelorex Corporation. Plastic container and method of making the same. 3,706,393, 12-19-72, Cl. 220-67.000.
Curtis, Gerald B., to Pioneer Chemical Works, Inc. Defoaming composition and a method for its use. 3,661,793, 5-9-72, Cl. 252-321.000.
Curtis, Gerald J. Golf ball retriever. 3,669,427, 6-13-72, Cl. 294-19.000.
Curtis, Hazen, III; and Tuchen, Gerd Achim, to Bell Telephone Laboratories, Incorporated. Variable inductance coil form assembly. 3,684,993, 8-15-72, Cl. 336-136.000.
Curtis Instruments, Inc.: *See—*
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Beusman, Curtis C., 3,686,566.
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Finger, Eugene P., 3,704,432.
Marwell, Edward M.; and Finger, Eugene P., 3,706,036.
Curtis, James H.; and Woodward, Fred E., to Diamond Shamrock Corporation. Defoamer compositions for aqueous systems. 3,673,105, 6-27-72, Cl. 252-321.000.
Curtis, Lawrence R.: *See—*
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Curtis, Lyda Darrell, to Rybeck, S. Arthur, Jr. Dental crown and bridge removing adaptor. 3,690,007, 9-12-72, Cl. 32-43.000.
Curtis, Richard S.; and Allen, Rodger E. Method of making bearing balls. 3,677,807, 7-18-72, Cl. 117-105.000.
Curtis, Robert Bartlett, to Bell Telephone Laboratories, Incorporated. High capacity switching network and control arrangement. 3,649,768, 3-14-72, Cl. 179-22.
Curtis, Rolando T., to Integrated Ceilings, Inc. Connector structure for suspended ceilings and the like. 3,703,307, 11-21-72, Cl. 287-189.36r.
Curtis, Thomas C.: *See—*
Gilson, Ian T.; Troscinski, Edwin S.; Curtis, Thomas C.; and Watson, Robert G., 3,687,610.
Curtis, William H., Jr.: *See—*
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Curtis 1000 Inc.: *See—*
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Curtiss, Robert H.; Holzman, Richard; and Lazarow, Seldan A., to Nortec Computer Devices, Inc. Means detecting non-rebailed print hammers to recycle the bailing means. 3,673,955, 7-4-72, Cl. 101-93.00c.
Curtiss-Wright Corporation: *See—*
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Corwin, Howard R.; Hermes, Walter L.; and Jones, Charles, 3,691,792.
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Larrinaga, John; and Jones, Charles, 3,674,384.
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Curtner, Larry C. A. Ball mixing device. 3,658,341, 4-25-72, Cl. 273-144.
Curwen, Kenneth R., to Kollsman Instrument Limited. Optical pyrometer amplifiers. 3,668,427, 6-6-72, Cl. 307-229.000.
Curwood, Inc.: *See—*
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Cusano, Carmen M., to Texaco Inc. Synthetic resin containing vinylpyridine. 3,632,683, 1-4-72, Cl. 260-880.
Cusano, Carmen M.; Yamamoto, Roy I.; and Rubin, Isaac D., to Texaco Inc. Graft copolymer with an alkyl acrylate and ethylthioethyl metharylate backbone. 3,691,261, 9-12-72, Cl. 260-881.000.
Cusano, Michael Richard: *See—*
Beaumont, Warren L.; and Cusano, Michael Richard, 3,634,019.
Clark, John E.; and Cusano, Michael Richard, 3,649,535.
Cusato, Anthony J., to Mann, Henry, Inc. Plier-type band pry and cutting tool for orthodontists. 3,638,316, 2-1-72, Cl. 32-66.

Cuschera, Casper. Drain connection. 3,668,718, 6-13-72, Cl. 4-288.000.

Cuscovitch, John F., Sr. Carpet tool. 3,685,064, 8-22-72, Cl. 7-17.000.

Cuscurida, Michael: *See—*
Lloyd, Rodney Frederick; and Cuscurida, Michael, 3,706,714.
Moss, Philip H.; and Cuscurida, Michael, 3,655,590.
Schulze, Heinz; and Cuscurida, Michael, 3,691,135.
Speranza, George P.; and Cuscurida, Michael, 3,645,925.

Cuscurida, Michael, to Jefferson Chemical Company, Inc. Moisture-cured coating compositions. 3,705,132, 12-5-72, Cl. 260-75.0np.

Cushing, Vincent J. Electromagnetic water current meter. 3,693,439, 9-26-72, Cl. 73-194.0em.

Cushion Cut, Inc.: *See—*
Shatwell, Donald G.; and Kuzmick, Lester F., 3,663,060.

Cushman, Charles Richard, to Autometrics Co., mesne. Method and apparatus for producing a directable current conducting gas jet for use in a method for inspecting and measuring non-conductive film coatings on conductive substrates. 3,639,831, 2-1-72, Cl. 34-33.

Cushman, Edward J.; and Clark, Jasper, to Watch-Tel 24, Inc. Automatic reporting monitoring and control system. 3,647,971, 3-7-72, Cl. 179-2.

Cushman, Glenn F.; Prasad, Brijeshwari,; and Wisleder, Robert W., to Litton Systems, Inc. Correction circuit for converters. 3,641,563, 2-8-72, Cl. 340-347.

Cushman, Kenneth V.: *See—*
Miller, Delmar S.; and Cushman, Kenneth V., 3,686,915.

Cushman, Kenneth V., to Delron Fastener; division of Rex Chainbelt Inc. Encapsulated floating and non-floating fasteners. 3,646,982, 3-7-72, Cl. 151-41.7.

Cushman, Paul G., to General Electric Company. Two-resolver, strapped-down inertial reference system. 3,694,631, 9-26-72, Cl. 235-150.250.

Cushman, Paul G.; and Clark, Albert A., to General Electric Company. Co-ordinated voltage control for induction servomotors. 3,700,986, 10-24-72, Cl. 318-227.000.

Cushman, Robert D., to Jeno's, Inc. Machine for forming straws. 3,659,507, 5-2-72, Cl. 93-84.

Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Method for healing short circuits in capacitors. 3,652,929, 3-28-72, Cl. 324-51.

Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Terminal and wrapped wire assembly. 3,663,741, 5-16-72, Cl. 174-94.

Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Bonding press having improved support base structure. 3,669,806, 6-13-72, Cl. 156-580.000.

Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Wire joining tool. 3,700,009, 10-24-72, Cl. 140-111.000.

Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Fusion bonding. 3,706,126, 12-19-72, Cl. 29-498.000.

Cushman, Walton W., to Tucker, Martin; as trustee. Multi-wheeled locomotion device. 3,639,011, 2-1-72, Cl. 305-35.

Cushman, Walton W., to Tucker, Martin; as trustee. Tread belt and assembly. 3,639,012, 2-1-72, Cl. 305-35.

Cushman, Walton W., to Tucker, Martin. Vehicle suspension means. 3,704,026, 11-28-72, Cl. 280-87.00r.

Cushner, Stanton H.; Ferguson, Patrick E.; Griffiths, Henry W.; and Nelson, Alfred M., to Magnavox Company, The. Magneto-optical transducer. 3,636,535, 1-18-72, Cl. 340-174.1.

Cusic, John W.: *See—*
Coyne, William E.; and Cusic, John W., 3,658,908.

Cusic, John W.; and Levon, Ernest F., to Searle, G. D., & Co. N-[2-(2-methyl-5-nitro-1-imidazolyl) ethyl]imides. 3,642,836, 2-15-72, Cl. 260-281.

Cusic, John W.; and Coyne, William E., to Searle, G. D., & Co. Dibenzoxazepine semicarbazones. 3,644,346, 2-22-72, Cl. 260-240.

Cusic, John W.; and Yen, Chung Hwai, to Searle, G. D., & Co. Fluorene-9-carboxylic acid hydrazides. 3,660,485, 5-2-72, Cl. 260-558.

Cusick, Gordon Edward. Methods and apparatus for bonding laminate materials. 3,654,019, 4-4-72, Cl. 156-285.

Cusick, Richard T.: *See—*
Moore, Walter J.; Cusick, Richard T.; and Byrne, Michael D., Jr., 3,645,141.

Custer Channel Wing Corporation: *See—*
Custer, Willard R., 3,650,497.

Custer, Peter. Apparatus for controlling contrast during reproduction of photographic images. 3,680,956, 8-1-72, Cl. 355-71.000.

Custer, Willard R., to Custer Channel Wing Corporation. Jet propelled channeled aircraft. 3,650,497, 3-21-72, Cl. 244-12.

Custer, Willard R. Contoured stack of jet engine with channel wing aircraft. 3,704,842, 12-5-72, Cl. 244-12.0cw.

Custer, Willard R. Air flow control means for channel winged aircraft. 3,705,700, 12-12-72, Cl. 244-13.000.

Custom Machine, Inc.: *See—*
Wloszek, Joseph T., 3,699,723.

Custom Resins, Inc., mesne: *See—*
Galiano, Francis R.; Thackaberry, Samuel P.; Smith, Wayne E.; and Anderson, Raymond P., 3,681,216.

Custom Tool & Machine Co., Inc.: *See—*
Nelson, Leonard; and Wilson, Thomas, 3,676,120.

Customflex, Inc.: *See—*
Di Maio, Vincent, 3,641,814.

Customline Control Products, Inc.: *See—*
Wright, Edward L.; and Meseck, Eugene T., 3,667,285.
Wright, Edward L.; and Meseck, Eugene, 3,673,851.

Cusveller, John, to Sperry Rand Australia Limited. Fluid operated actuator for movable members. 3,688,644, 9-5-72, Cl. 91-420.000.

Cutchins, Ray L.: *See—*
Davis, Melvin Lee; and Cutchins, Ray L., 3,635,275.

Cuthbert, James D. R. Transportable cabin. 3,667,800, 6-6-72, Cl. 296-23.

Cuthbertson, John Harry: *See—*
Swanwick, Barry Frederick; West, Ernest; and Cuthbertson, John Harry, 3,673,819.

Cuthertson, William Wilson, to Imperial Chemical Industries, Limited. Silicone-polyalkyline oxide block copolymer suppressing foam in jet dyeing. 3,700,400, 10-24-72, Cl. 8-83.000.

Cutler, Albert Ernest, to Redifon Limited. Method and apparatus for producing a visual display of a scene by direct optical projection. 3,631,610, 1-4-72, Cl. 35-12.

Cutler, Arthur S.; and Smith, Dallas F., to General Electric Company. Apparatus for developing wound coils for electromagnetic devices. 3,672,026, 6-27-72, Cl. 29-205.00r.

Cutler, Gary P.; and Streed, Suzanne M., 1/2 to Cutter, Gary P. and 1/2 to Streed, Suzanne M. Wig structure. 3,645,280, 2-29-72, Cl. 132-53.

Cutler, Hymie: *See—*
Glowzewski, Thomas L.; and Cutler, Hymie, 3,665,493.

Cutler, Hymie, to Bendix Corporation, The. Numerical control system for interrupted cutting conditions. 3,698,268, 10-17-72, Cl. 82-2.00b.

Cutler, Joel L.; and Glickman, Joel L., to Transalarm Electronics, Inc. Alarm system. 3,641,425, 2-8-72, Cl. 340-224.

Cutler, Joel L.; and Glickman, Joel I. Wireless alarm system. 3,641,540, 2-8-72, Cl. 340-224.

Cutler, Leonard S.: *See—*
Bagley, Alan S.; Cutler, Leonard S.; and Rando, Joseph F., 3,656,853.
Cutler, Leonard S.; Holloway, Joseph H.; and Turner, Wilson R., 3,675,149.

Cutler, Leonard S.; and Hammond, Donald L., to Hewlett-Packard Company. Acousto-optic RF spectrum analysis method and apparatus. 3,667,038, 5-30-72, Cl. 324-77.00r.

Cutler, Leonard S.; Holloway, Joseph H.; deceased (by Cutler, Leonard S.; executor); and Turner, Wilson R., to Hewlett-Packard Company. Atomic beam tube having multiple beams. 3,675,149, 7-4-72, Cl. 331-94.000.

Cutler, Lester M.; and Friedman, Paul, to Vibra-Baths Home Products, Inc. Waterproof battery operated vibrator. 3,705,578, 12-12-72, Cl. 128-36.000.

Cutler, Royal A.; and Schalit, Samuel, to Sterling Drug Inc. Process for combatting bacteria and fungi by using amidinoureas and amidinothioureas. 3,652,766, 3-28-72, Cl. 424-322.

Cutler, Royal A.; and Schalit, Samuel, to Sterling Drug Inc. Process for combatting slime in paper pulp by using amidinoureas and amidinothioureas. 3,692,625, 9-19-72, Cl. 162-161.000.

Cutler, Stanley: *See—*
Chang, Richard S.; Cutler, Stanley; La Branche, Harvey W.; Pearlman, Marshall B.; Ryan, John W.; and Toy, Raymond M., 3,647,927.

Cutler, Stanley, to Mattel, Inc. Organ keyboard switching system. 3,657,460, 4-18-72, Cl. 84-1.01.

Cutler-Hammer, Inc.: *See—*
Allison, Arthur F.; Greening, Donald J.; and Mollgaard, Anton N., 3,675,104.
Allison, Arthur F.; Greening, Donald J.; and Mollgaard, Anton N., 3,681,624.
Becker, Albert H.; Hart, Joseph M.; and Quaal, John A., 3,680,016.
Brown, Harry W.; Rutchik, Walter L.; and Ryczek, Lawrence J., 3,639,822.
Cotton, Ronald K.; and Rae, Barney O., 3,677,420.
Dempsey, George A., Jr.; Koenig, Martin F.; and Issa, Manuel (said Dempsey and said Koenig assors. to), 3,639,676.
Dempsey, George A., Jr.; Koenig, Martin F.; and Robbins, Clyde F., 3,639,680.
Elliot, William H.; and Small, Isadore, III, 3,641,397.
George, Quintin H., 3,636,453.
Greening, Donald J.; Kintner, Paul M.; and Strand, Sanford M., 3,655,950.
Greger, George; and Rusenko, James J., 3,657,606.
Halbeck, Werner B.; Quaal, John A.; and Robbins, Clyde F., 3,706,100.
Halbeck, Werner B.; Quaal, John A.; Robbins, Clyde F.; Rutchik, Walter L.; and Ryczek, Lawrence J., 3,706,916.
Hults, Harold W., 3,636,286.
Hults, Harold W., 3,683,322.
Ilk, Ronald J., 3,644,793.
Kintner, Paul M., 3,677,421.

Leavitt, Minard A.; and Roulund, Poul B., 3,667,845.
Oetting, Robert F., 3,656,852.
Piber, Earl T., 3,632,936.
Pierson, Edward D.; Wright, James C.; de Rozario, Carl C.; and Nemeth, Peter, 3,648,618.
Quaai, John A.; and Spellman, Gordon Bar, 3,693,120.
Risberg, Robert L.; and Wheeler, Blakeslee G., 3,636,298.
Ritzow, Gerald R., 3,639,808.
Ritzow, Gerald R., 3,671,816.
Robbins, Clyde F., 3,688,159.
Tressa, Frank J., 3,696,429.
Turkish, Disney, 3,701,949.
Williams, Robert C., III, 3,648,004.
Williams, Robert C., III, 3,693,475.
Winter, Ronald C.; and Knief, Enno A., 3,659,083.

Cutrona, Louis J.: *See—*
Cochran, Gary D.; Cutrona, Louis J.; and Ingalls, Arthur L., 3,687,543.

Cutrone, Joseph: *See—*
Cumella, Charles; and Cutrone, Joseph, 3,667,085.

Cutter, Gary P.: *See—*
Cutler, Gary P.; and Streed, Suzanne M., 3,645,280.

Cutter, James W. Material cutting apparatus with reciprocating cutting elements. 3,677,117, 7-18-72, Cl. 83-150.

Cutter, John W. Treadmill jogger. 3,642,279, 2-15-72, Cl. 272-69.

Cutter Laboratories, Inc.: *See—*
Allen, Robert E.; Thompson, Charles R.; and Hidalgo, John, 3,655,680.
Carmen, Raleigh A., 3,690,928.
Cutter, Robert K., 3,683,922.
Dabney, William C., 3,670,728.
Emery, Byron E., 3,664,536.
Hardie, Waldo R.; and Aaron, Joseph E., 3,651,090.
McDonald, Harold P., Jr., 3,633,585.
Stemmer, August L.; Kahn, Paul; and Stubstad, James A., 3,683,422.

Cutter, Larry I., to LeFebure Corporation. After-hours depository entrance. 3,707,261, 12-26-72, Cl. 232-44.000.

Cutter, Leonard S.: *See—*
Lacey, Richard F.; Cutter, Leonard S.; and Turner Wilson S., 3,670,171.

Cutter, Robert C. Aircraft hangars. 3,670,464, 6-20-72, Cl. 52-30.000.

Cutter, Robert K., to Cutter Laboratories, Inc. Snake-bite kit with suction cup having variable degrees of suction. 3,683,922, 8-15-72, Cl. 128-300.000.

Cutters Machine Company, Inc.: *See—*
Benson, Robert W.; Chapman, James Ronald; Reed, Robert G.; and Smith, Hoyt L., 3,663,006.
Benson, Robert W.; and Reed, Robert G., 3,684,273.
Reed, Robert G., 3,694,722.

Cutting, Arch E.; Owens, Carlos L.; Williams, Dewey H.; and Hooper, Felix E., to Southern Machinery Company. Loom having interconnected warp let-off and cloth take-up means at back of loom. 3,677,305, 7-18-72, Cl. 139-99.000.

Cutting, Jack R.: *See—*
Parkinson, Gerald W.; and Cutting, Jack R., 3,700,995.

Cutting Room Appliances Corporation: *See—*
Paterson, Stephen, 3,638,574.
Paterson, Stephen, 3,677,536.

Cutton, John G.; and Welsch, George A., Jr., to United States Steel Corporation. Free-machining steel, articles thereof and method of making. 3,634,073, 1-11-72, Cl. 75-123.

Cuvelier, Georges; and Wattiez, Daniel, to Institut Textile de France. Dry heat reaction of quaternized epoxides and quaternized chlorohydrins with hydroxylated textiles. 3,685,953, 8-22-72, Cl. 8-115.000.

Cuvelier, John A.: *See—*
Vogel, Charles A.; and Cuvelier, John A., 3,643,892.

Cuvillier, Roger: *See—*
Cohen-Alloro, Richard; Cuvillier, Roger; and Grassaud, Jean, 3,703,237.

Cuylits, Jacques, to S.A. Ateliers Belges Reunis. Caravan. 3,633,324, 1-11-72, Cl. 52-66.

Cuzner, David E.; Rigbey, Leo J.; and Smith, George M., to International Business Machines Corporation. Electromagnetic actuated detent apparatus. 3,668,487, 6-6-72, Cl. 318-128.000.

Cuzzone, Raymond: *See—*
Vrabeli, Edward A.; and Cuzzone, Raymond, 3,699,491.

Cvacho, Daniel S.; Lee, Harry W., Jr.; and Robertson, Field I., Jr., to Reynolds Metals Company. Apparatus for and method of transferring articles. 3,637,064, 1-25-72, Cl. 198-32.

Cvacho, Daniel S., to Reynolds Metals Company. Bearing assembly and machine using same. 3,663,072, 5-16-72, Cl. 308-5.

Cvacho, Daniel S., to Reynolds Metals Company. Apparatus for and method of forming cup-shaped articles. 3,664,172, 5-23-72, Cl. 72-350.

Cvacho, Daniel S.; Fastabend, Patrick A.; Garriques, Alfred L.; and Jensen, Eric L., to Reynolds Metals Company. Container construction and closure plug therefor. 3,698,593, 10-17-72, Cl. 220-60.00a.

Cvacho, Daniel S.; and Lee, Harry W., Jr., to Reynolds Metals Company. Method and apparatus for making a drawn article. 3,704,618, 12-5-72, Cl. 72-336.000.

CVC Company: *See—*
Carsten, Paul W., 3,703,913.

Cvetkovich, Dejan O. Wheel lock for a vehicle. 3,653,730, 4-4-72, Cl. 303-89.

Cvetkovich, Dejan O. Wheel lock for a vehicle. 3,682,195, 8-8-72, Cl. 137-384.600.

Cwynar, Thomas; and Trzeciak, John R., to Singer-General Precision, Inc. Sine-cosine function generator using a power series. 3,688,098, 8-29-72, Cl. 235-197.000.

Cyanede Plastics, Inc.: *See—*
Dawson, Willis S., 3,635,234.

Cyba, Henryk A., to Universal Oil Products Company. Flame retardant solid polymeric compositions. 3,634,314, 1-11-72, Cl. 260-45.8.

Cyba, Henryk A., to Universal Oil Products Company. Stabilization of hydrocarbon oils. 3,637,358, 1-25-72, Cl. 34-72.

Cyba, Henryk A., to Universal Oil Products Company. Stabilization of organic substance with N,N-disubstituted-aminoalkyl phosphite. 3,637,587, 1-25-72, Cl. 260-45.9.

Cyba, Henryk A., to Universal Oil Products Company. Synergistic mixture and use thereof. 3,644,217, 2-22-72, Cl. 252-400.

Cyba, Henryk A., to Universal Oil Products Company. Boron acid esters. 3,646,098, 2-29-72, Cl. 260-462.

Cyba, Henryk A., to Universal Oil Products Company. Boronates and borinates. 3,646,101, 2-29-72, Cl. 260-462.

Cyba, Henryk A., to Universal Oil Products Company. Flame retarded composite. 3,647,609, 3-7-72, Cl. 161-160.

Cyba, Henryk A., to Universal Oil Products Company. Stabilized polyolefin compositions. 3,654,220, 4-4-72, Cl. 260-45.9.

Cyba, Henryk A., to Universal Oil Products Company. Reaction product of polyamine and carboxylic acids, and fuels, lubricating oils, greases and plastics containing said product. 3,660,289, 5-2-72, Cl. 252-51.5.

Cyba, Henryk A., to Universal Oil Products Company. Oxidation of aromatic compounds. 3,661,984, 5-9-72, Cl. 260-524.

Cyba, Henryk A., to Universal Oil Products Company. Reaction product of alkanolamine and two particular acids. 3,668,236, 6-6-72, Cl. 260-485.00h.

Cyba, Henryk A., to Universal Oil Products Company. Amine salts of phosphinic acid esters. 3,668,237, 6-6-72, Cl. 260-485.00g.

Cyba, Henryk A., to Universal Oil Products Company. Stabilizing plastic with borated dihydroxydiphenyl sulfide. 3,669,926, 6-13-72, Cl. 260-45.950.

Cyba, Henryk A., to Universal Oil Products Company. N hydroxy alkyl-N' cycloalkyl piperazines. 3,673,186, 6-27-72, Cl. 260-268.00r.

Cyba, Henryk A. Stabilization of organic substances. 3,692,680, 9-19-72, Cl. 252-49.600.

Cyba, Henryk A., to Universal Oil Products Company. Polymeric flame retardant compositions. 3,705,127, 12-5-72, Cl. 260-881.000.

Cybart, Eugene M. Electro-magnetic railway track. 3,699,329, 10-17-72, Cl. 246-182.000.

Cybercom Corporation: *See—*
Blum, James E., 3,667,701.

Cybersol, Inc., mesne: *See—*
Reynolds, Beverly L., 3,676,553.

Cybertek, Inc.: *See—*
Glenn, William G., 3,692,486.

Cycle Equipment Company: *See—*
Selleck, Robert W.; and Allen, Philip H., 3,672,594.

Cyclo Manufacturing Company: *See—*
Helbig, Jim D., 3,695,203.

Cyclops Corporation: *See—*
Ecer, Gunes M., 3,649,255.
Kantor, Thomas A.; and Bowen, Ronald K., 3,650,734.

Cygnor, John E., to Chandler Evans Inc. Variable displacement vane pump. 3,645,652, 2-29-72, Cl. 418-31.

Cygnor, John E.; and Sundberg, Jack G., to Chandler Evans Inc. Pumping system including variable displacement vane pump. 3,650,642, 3-21-72, Cl. 418-26.

Cynober, Simon A.: *See—*
Ricaud, Pierre; and Cynober, Simon A., 3,706,286.
Ricaud, Pierre A.; and Cynober, Simon A., 3,702,099.
Wiart, Albert; and Cynober, Simon A., 3,675,585.

Cyphelly, Ivan Jaroslav. Hydrostatic shaft seal. 3,685,842, 8-22-72, Cl. 277-74.000.

Cyphers, Charles A., to Sund-Borg Machines Corporation, mesne. Rubber or plastic feeder-cutter. 3,656,382, 4-18-72, Cl. 83-150.

Cypro Incorporated: *See—*
Pearson, William S., 3,632,249.
Pearson, William S., 3,700,177.

Cyprus Metallurgical Processes Corporation: *See—*
Kruesi, Paul R., 3,673,061.

Cyprus Mines Corporation: *See—*
Allen, Eugene S.; and Gavrias, Royce S., 3,642,435.

Cyr, Gilman N.: *See—*
Riffkin, Charles; Rifino, Carl B.; and Cyr, Gilman N., 3,703,511.

Cyr, Lawrence. Means for adjusting heights of cut in power mower. 3,677,574, 7-18-72, Cl. 280-43.130.

Cyr, Steven J.; Whelan, Mark W.; and Jones, Kenneth L., to Standard Oil Company (Indiana). Hot food container. 3,633,785, 1-11-72, Cl. 220-20.

Cyriax, Wilhelm. Mold closure means. 3,666,387, 5-30-72, Cl. 425-242.

Cyriax, Wilhelm. Mold-closing means for molding machines. 3,669,593, 6-13-72, Cl. 425-186.

Cyriax, Wilhelm. Mold-closing means, particularly for die-casting and injection-molding machines for metals and synthetics. 3,687,590, 8-29-72, Cl. 425-16.000.

Czaja, Robert F.; Grenda, Victor J.; and Chamberlin, Earl M., to Merck & Co., Inc. Synthesis of the biologically active diastereoisomer of (-) zearalanol. 3,704,249, 11-28-72, Cl. 260-343.20f.

Czajkowski, Henry J. Sweeper attachment for harvesting machinery. 3,678,669, 7-25-72, Cl. 56-314.000.

Czakert, Ernst: *See—*
Moschopedis, Speros E.; Czakert, Ernst; and Creighton, Stephen M., 3,700,728.

Czarnecki, Adolph, to Standard Alliance Industries, Inc. Power and free conveyor system. 3,667,399, 6-6-72, Cl. 104-172.00s.

Czarnecki, Robert M.: *See—*
Wieschel, John E.; Zanzig, Jerald G.; Czarnecki, Robert M.; and Murray, Claire W., 3,682,336.

Czarnikow, George K., to Eastman Kodak Company. Conveyor and printer mechanism. 3,667,843, 6-6-72, Cl. 355-29.000.

Czaryski, Norbert: *See—*
Trezzini, Henri Louis; and Czaryski, Norbert, 3,693,308.

Czeck, Joseph J.; Glen Lyon; and Reusser, Raymond E., to Western Electric Company, Incorporated. Crystal grower with expandable chamber and method of use thereof. 3,679,370, 7-25-72, Cl. 23-273.0sp.

Czehovsky, Gunther: *See—*
Feder, Ernst; Deselaers, Kurt; and Czehovsky, Gunther, 3,669,847.

Czekajewski, Jan A. Cardiac output computer. 3,651,318, 3-21-72, Cl. 235-183.

Czekay, Arno; Kramer, Bruno; and Kaiser, Karl. Production of a vinyl chloride polymer of predetermined particle size distribution and apparent density. 3,682,877, 8-8-72, Cl. 260-92.80w.

Czerkas, Alfred E.; and Kenyon, Roger B., to Eastman Kodak Company. Polyester heat relax processes. 3,663,683, 5-16-72, Cl. 264-346.

Czerniejewski, Conrad P.: *See—*
Hocker, Richard L.; Czerniejewski, Conrad P.; and Hopper, John D., 3,677,653.

Czerniewicz, John F. Power chisel. 3,656,521, 4-18-72, Cl. 144-219.

Czerski, Jan, to Shell Oil Company. Injection molding assembly. 3,698,849, 10-17-72, Cl. 425-247.000.

Czerwinski, Richard W.; and Arthur, Ralph P., to Borg-Warner Corporation. Nitrile tetrapolymer-polyvinylchloride blends. 3,662,027, 5-9-72, Cl. 260-891.

Cziesla, Manfred J.: *See—*
Schnell, Hermann; Cziesla, Manfred J.; and Bottenbruch, Ludwig, 3,692,870.
Swedenberg, Clyde J.; and Cziesla, Manfred J., 3,697,340.

Czirely, Julius. Contraceptive device. 3,677,225, 7-18-72, Cl. 128-132.000.

Czonka, Viktor: *See—*
Bretschneider, Hermann; Czonka, Viktor; and Rupp, Karl, 3,636,761.

Czubak, Albin S.: *See—*
Ellis, Nyron P.; Czubak, Albin S.; and McDonald, Keith A., 3,699,724.

Czulak, Joseph; Freeman, Norman H.; and O'Connell, James R. Method and apparatus for processing curd in the manufacture of cheese. 3,695,893, 10-3-72, Cl. 99-116.000.

Czumber, Frank E.: *See—*
Wiltshire, Arthur J.; Ranallo, Henry U.; and Czumber, Frank E., 3,654,002.

Czurak, Richard H.; and Thompson, Robert M., to Scott, O. M., and Sons Company, The. Roamed fertilizers and combination products. 3,705,794, 12-12-72, Cl. 71-29.000.

Czuszak, Charles C.: *See—*
Scholz, Paul W.; and Czuszak, Charles C., 3,652,055.

Czuszak, Charles C.; and Worthen, Richard A., to Carrier Corporation. Trip mechanism for turbine trip valve. 3,685,791, 8-22-72, Cl. 251-69.000.

Czuszak, Charles C., to Carrier Corporation. Turbine speed control system. 3,703,339, 11-21-72, Cl. 415-36.000.

Czwakiel, Bert J.; and Miller, Donald F., to General Electric Company. Fluidic gaging sensor head. 3,667,282, 6-6-72, Cl. 73-37.700.

Czyl, Joseph L.: *See—*
Stikkers, Alexander P.; Elzy, Albert E.; and Czyl, Joseph L., 3,692,016.

Czyzewski, Edward B.: *See—*
Hahn, Frederick C.; and Czyzewski, Edward B., 3,681,808.

D. C. One Limited: *See—*
Lynch, Robert Douglas, 3,650,228.

D. D. I. Communication, Inc.: *See—*
Huebner, Werner P. E.; and Long, Robert G., 3,691,304.
Huebner, Werner P. E.; and Long, Robert G., 3,691,305.

Da Mert, Frederick A. Fan-folded print-out paper for high speed printers. 3,658,364, 4-25-72, Cl. 281-5.

Da Re, Giorgio; and Rovati, Luigi, to Rotta Research Laboratorium S.p.A. Methods for producing gastrointestinal antisecretory action. 3,663,711, 5-16-72, Cl. 424-309.

Da Re, Paolo: *See—*
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Da Silva, Jacinto Rocha. Automatic signalling device for automotive vehicles. 3,646,508, 2-29-72, Cl. 340-33.

da Silva, Jorge Neves: *See—*
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Da-Ichi Kogyo Seiyaku Co., Ltd.: *See—*
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Da-Kor Products, Inc.: *See—*
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Da-Lite Screen Company, Inc.: *See—*
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Daams, Jasper; and Wellinga, Kobus, to U.S. Philips Corporation. 2-(2',6'-Dichlorophenyl)-1,3-thiazine-4-one. 3,661,900, 5-9-72, Cl. 260-243.

Daane, Robert A., to Beloit Corporation. Dryer drum. 3,675,337, 7-11-72, Cl. 34-41.000.

Dabbs, Clyde Harwell; and Neil, Hugh G. Surgical buttons. 3,664,345, 5-23-72, Cl. 128-335.

Dabisch, Wolfgang: *See—*
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Dabkowski, Donald S.; and Porter, Lew F., to United States Steel Corporation. Method for effecting the rapid heat-treatment of steel plate. 3,692,591, 9-19-72, Cl. 148-144.000.

Dabney, William C., to Cutter Laboratories, Inc. Apparatus for intravenous administration of a fluid from a dual-chamber flask having an internal upset-table septum normally separating two axially-in-line chambers and having a pierceable end stopper. 3,670728, 6-20-72, Cl. 128-214.00c.

Dabolt, Laurence L., to American Hospital Supply Corporation. Cardiac pacer system. 3,662,759, 5-16-72, Cl. 128-419.

Dabringhausen, Friedhelm: *See—*
Korner, Gerhard; Schmitz, Wolfgang; Dabringhausen, Friedhelm; and Gruber, Lothar, 3,674,957.

Dabritz, Erich; Schafer, Werner; Grewe, Ferdinand; and Scheinpflug, Hans, to Farbenfabriken Bayer Aktiengesellschaft. N-(1,3-thiazol-2-yl)-dithiocarbamic acid derivatives. 3,641,043, 2-8-72, Cl. 260-306.8.

Dabritz, Erich; and Mayer, Karl Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of 2-halo-5-nitrothiazones. 3,654,295, 4-4-72, Cl. 260-302.

Dabrowski, Jan: *See—*
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Dabrush, Charles; and Strauss, Irving, to Chromalloy American Corporation. Chord length gauge. 3,639,992, 2-8-72, Cl. 33-174.

Dabrush, Charles; and Strauss, Irving, to Chromalloy American Corporation. Bow gauge for turbine engine vanes. 3,678,585, 7-25-72, Cl. 33-174.00p.

Dacam Corporation: *See—*
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Dacco', Aldo, to Dacco', Liasa del Dott Aldo. Metallic alloy for bearings. 3,667,941, 6-6-72, Cl. 75-178.000.

Dacco', Liasa del Dott Aldo: *See—*
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Dacey, Paul F.; De Toma, Samuel; Hayes, Thomas; and Mc Namara, Matthew F., to EDUS Corporation. Educational device. 3,673,712, 7-4-72, Cl. 35-74.000.

Dach, Hansjorg, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Automotive transmission with dual planet carrier. 3,688,601, 9-5-72, Cl. 74-753.000.

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Dachs, Norman W.; and Gruber, Robert, to Hooker Chemical Corporation. Hydroxyethylthio phenols and process for preparing same. 3,646,220, 2-29-72, Cl. 260-609.

Dachs, Norman W., to Hooker Chemical Corporation. Dioxabicyclo octane compounds. 3,666,776, 5-30-72, Cl. 260-340.9.

Dacor Corporation: *See—*
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daCosta, Harry; and Thornton, Charles G., to Motorola, Inc. Method for profiling bonding needles. 3,631,645, 1-4-72, Cl. 51-326.

D'Acremont, Alain F.; Chaumont, Gerard; and Lefeuvre, Alain P., to Sperry Rand France S.A. Fodder baler feed mechanism. 3,636,869, 1-25-72, Cl. 100-189.

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Dacus, Herbert R.; and Christner, Harry V. Mower guard. 3,665,693, 5-30-72, Cl. 56-320.1.

Dacus, Herbert R.; and Christner, Harry V. Mower attachment. 3,680,294, 8-1-72, Cl. 56-255.000.

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Dadazynski, Rolf: *See—*
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Daddona, Paul R., to Polycast Technology Corporation, The. Gasket for plastic casting. 3,648,965, 3-14-72, Cl. 249-134.
Daddona, Paul R., to Polycast Technology Corporation, The. Apparatus for casting plastic sheet. 3,694,129, 9-26-72, Cl. 425-405.000.
Dadds, Floyd S.; and Gee, James E., to Caterpillar Tractor Company. Pressure-balanced track roller. 3,679,216, 7-25-72, Cl. 277-3.000.
Dadekian, Zaven A., to Baird Chemical Industries, Inc. Two-phase iodide-catalysed system for preparing tertiary amines. 3,646,147, 2-29-72, Cl. 260-583.
Dadon, Georges Edouard Louis Leon: *See—*
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Daenen, Robert, to Dart Industries, Inc. Interconnecting toy block set. 3,651,597, 3-28-72, Cl. 46-25.
Daeninckx, Jean, to Societe Anonyme dite: L'Oreal. Receptacle for insecticide plate. 3,659,373, 5-2-72, Cl. 43-125.
Daeninckx, Jean Georges: *See—*
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D'Agati, John R., to Preformed Line Products Company. Line tie. 3,664,010, 5-23-72, Cl. 29-526.
Dage, Richard, to Colgate-Palmolive Company. Method of treating hypertension with morphanthridines. 3,692,906, 9-19-72, Cl. 424-244.000.
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Dagle, Glenn C. Electrical alarm system. 3,638,213, 1-25-72, Cl. 340-280.
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Dahl, Christian W., to Hartzell Corporation. Motorcycle riding simulator. 3,686,776, 8-29-72, Cl. 35-11.000.
Dahl, David A., to Teletype Corporation. Energy conserving intermittent motion device and method. 3,670,940, 6-20-72, Cl. 226-8.000.
Dahl, Einar S., to Outboard Marine Corporation. Safety lawn mower. 3,646,739, 3-7-72, Cl. 56-320.1.
Dahl, Einar S., to Outboard Marine Corporation. Low-velocity discharge means for rotary mowers. 3,696,595, 10-10-72, Cl. 56-16.900.
Dahl, Ernest A., Jr. Data storage system. 3,690,753, 9-12-72, Cl. 353-23.000.
Dahl, Ernest A., Jr. Microfilm holder. 3,705,464, 12-12-72, Cl. 40-105.500.
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Dahl, Robert S. Cake package. 3,690,902, 9-12-72, Cl. 99-172.000.
Dahl, Rolf, to Continental Tapes, Incorporated. High temperature pressure-sensitive adhesives made by reinforcement with polyurethane polymers. 3,671,301, 6-20-72, Cl. 117-122.00p.
Dahl, Rolf, to Continental Tapes, Incorporated. Method of impregnating permeable materials with a polyurethane polymer. 3,702,781, 11-14-72, Cl. 117-118.000.
Dahlberg, Franklyn L.; and Brewer, Willie F., to FMC Corporation. Mobile self-supporting tiller. 3,633,679, 1-11-72, Cl. 172-123.
Dahlberg, Kurg G., to Thermo Trim, Inc. Egg carton. 3,687,355, 8-29-72, Cl. 229-45.000.
Dahlberg, Richard C.; and Goeddel, Walter V., to United States of America, Atomic Energy Commission. Method of making nuclear fuel elements. 3,652,744, 3-28-72, Cl. 264-.5.
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Dahle, Gerald W. Lead sharpener. 3,672,414, 6-27-72, Cl. 144-28.110.
Dahle, Norman A., to Gulf Research & Development Company. Combating unwanted vegetation with 2-(2',5'-dimethyl-pyrrolidinyl)-5-aryl-1,3,4-thiadiazoles. 3,677,737, 7-18-72, Cl. 71-90.000.
Dahle, Norman A., to Gulf Research & Development Company. Combating weeds and algae with 2-chloro-5-aryl-1,3,4-thiadiazoles. 3,690,858, 9-12-72, Cl. 71-67.000.
Dahle, Orvar, to Allmanna Svenska Elektriska Aktiebolaget. Pressure indicator, especially for measuring pressure in diesel engines. 3,648,524, 3-14-72, Cl. 73-398.
Dahlem, Billy J.; and Martin, John A., to Power-Curve Conveyor Company. Bag compactor for conveying apparatus. 3,698,572, 10-17-72, Cl. 214-6.0dk.
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Dahlgren, Harold P. Straight feed press. 3,664,261, 5-23-72, Cl. 101-177.
Dahlgren, Harold P. Method of preparing dampening transfer and material conditioning roller. 3,705,451, 12-12-72, Cl. 29-148.40d.
Dahlgren, Jens Karl Adolf; and Brandt, Bengt-Ake Rudolf, to Stenberg-Flygt AB. Pump unit. 3,653,785, 4-4-72, Cl. 417-367.
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Dahlgren, Lennart Gunnar Oskar, to Hasselblad, Fritz Victor. Centrifugal coupling means for photographic cameras provided with a roller-blind type focal plane shutter. 3,682,073, 8-8-72, Cl. 95-57.000.
Dahlgren, Lennart Gunnar Oskar, to Victor, Fritz, Hasselblad Teckn. Curtain for camera shutters. 3,685,423, 8-22-72, Cl. 95-57.000.
Dahlgren, Lennart Gunnar Oskar, to Hasselblad, Fritz Victor. Bearings for precision apparatus. 3,698,773, 10-17-72, Cl. 308-8.000.
Dahlgren, Lennart Gunnar Oskar, to Hasselblad, Fritz Victor. Cushioning device for mechanical details in photographic cameras and similar precision apparatus. 3,703,945, 11-28-72, Cl. 188-85.000.
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Dahlin, Erik B., to Measurex Corporation. System for maintaining constant the dry material flow to a sheet material manufacturing machine. 3,650,891, 3-21-72, Cl. 162-259.
Dahlin, Erik B., to Measurex Corporation. Basis weight gauge standardizing system. 3,681,595, 8-1-72, Cl. 250-83.00c.
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Dahlinger, Rodney J.; and Farnsworth, Robert P., to Hughes Aircraft Company. Trigger transformer for pulse forming network. 3,700,913, 10-24-72, Cl. 307-107.000.
Dahlman, Frederick A.; and Mras, Raymond J., to Corning Glass Works. Glass forming fluid flow control means. 3,634,060, 1-11-72, Cl. 65-305.
Dahlquist, Carl A., to Minnesota Mining and Manufacturing Company. Pressure-sensitive adhesive tape. 3,681,190, 8-1-72, Cl. 206-59.00c.
Dahlquist, Ernst A.; and Sandberg, Eric A. Pedometer with direction read-out. 3,635,399, 1-18-72, Cl. 235-105.
Dahlquist, Ernst A.; Polakoqski, Stanley J.; and Vaalburg, Teunis, to Rapistan Incorporated. Valve unit for vacuum operated palletizer lifting heads. 3,698,423, 10-17-72, Cl. 137-454.200.
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Dahlquist, Ralph L.; and Jones, James L., to Applied Research Laboratories, Inc. Capillary arc plasma source for and method of spectrochemical analysis. 3,685,911, 8-22-72, Cl. 356-86.000.
Dahlquist, Robert L.; and Klee, Maurice, to Case, J. I., Company. Rain loss monitoring device. 3,638,659, 2-1-72, Cl. 130-27.
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Daitoku, Kouichi; and Kimura, Shuji, to Nippon Kogaku K.K. Light-intercepting means in a camera capable of combination with power driven film rewinding means. 3,679,148, 7-25-72, Cl. 242-71.600.

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Dal Monte, Giorgio, to Societa Italiana Telecomunicazioni Siemens S.p.A. Centralized identification and debiting system for telephone subscribers. 3,657,482, 4-18-72, Cl. 179-7.

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D'Alba, Anthony R., to Trico Products Corporation. Fluid motor. 3,645,168, 2-29-71, Cl. 91-189.

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Dale, Brian, to GTE Sylvania Incorporated. Semiconductor switching device. 3,697,830, 10-10-72, Cl. 317-235.

Dale, Edwin L., to Beaunit Corporation. Knitted textile materials comprising polyester fiber and having outstanding soil release and durable press properties and a process for the preparation thereof. 3,702,231, 11-7-72, Cl. 8-115.600.

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Dale, Ernest A.; and Thomas, Martha J. B., to Sylvania Electric Products, Inc. Electrical translating device containing spheroidal phosphors. 3,668,455, 6-6-72, Cl. 313-109.

Dale, Ernest A.; and Thomas, Martha J. B., to Sylvania Electric Products, Inc. Atomizing, spray-drying and flame process for manufacturing phosphors. 3,676,358, 7-11-72, Cl. 252-301.40p.

Dale, Ernest Brock, Jr. Evaporation of multicomponent alloys. 3,634,647, 1-11-72, Cl. 219-121.

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D'Alelio, Gaetano F. Acrylonitrile polymerization in the presence of sulfuric acid followed by a neutralization step. 3,634,370, 1-11-72, Cl. 260-85.5.

D'Alelio, Gaetano F., 10% to Monscelli, Walter J. Triamino-s-triazines. 3,637,685, 1-25-72, Cl. 260-249.6.

D'Alelio, Gaetano F. Unsaturated ester of halogenated alkenes. 3,637,813, 1-25-72, Cl. 260-486.

D'Alelio, Gaetano F., to Ciba-Geigy Corporation. Copolymers of propargyl methacrylate and acrylate. 3,639,348, 2-1-72, Cl. 260-67.

D'Alelio, Gaetano F. Chelating compositions. 3,645,997, 2-29-72, Cl. 260-88.3.

D'Alelio, Gaetano F. Crosslinking polymers. 3,654,240, 4-4-72, Cl. 260-78.5.

D'Alelio, Gaetano F. Crosslinking polymers. 3,654,251, 4-4-72, Cl. 260-88.3.

D'Alelio, Gaetano F. Acrylic esters of halogenated acetylenic diols. 3,664,992, 5-23-72, Cl. 260-89.500.

D'Alelio, Gaetano F. Acrylic esters of halogenated acetylenic diols. 3,664,993, 5-23-72, Cl. 260-89.500.

D'Alelio, Gaetano F., 10% to Monacelli, Walter J. Substituted amino-s-triazines. 3,669,963, 6-13-72, Cl. 260-249.600.

D'Alelio, Gaetano F., 10% to Monacelli, Walter J. Substituted amino-s-triazines. 3,669,964, 6-13-72, Cl. 260-249.800.

D'Alelio, Gaetano F., to PPG Industries, Inc. Polymerizable crosslinkable esters of polyepoxy compounds. 3,676,398, 7-11-72, Cl. 260-47.0ep.

D'Alelio, Gaetano F. Synthesis of polybenzothiazolines and polybenzothiazoles by reacting a dialdehyde with an aromatic bismercaptoamine. 3,681,297, 8-1-72, Cl. 260-72.500.

D'Alelio, Gaetano F., to United States of America, Air Force. Preparation of polyoxazolidones. 3,694,406, 9-26-72, Cl. 260-47.0ep.

D'Alelio, Gaetano F., to Monacelli, Walter J. Chelating compositions. 3,700,671, 10-24-72, Cl. 260-248.000.

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D'Alessandro, John R. Multiport feedback and pole-zero control. 3,643,184, 2-15-72, Cl. 333-80.
D'Alessio, Joseph R., to Federal Paper Board Company, Inc. Display carton. 3,680,687, 8-1-72, Cl. 206-45.140.
Daley, Thomas J., to Westinghouse Electric Corporation. Method of making a random wound encapsulated coil. 3,662,460, 5-16-72, Cl. 29-605.
Daley, Thomas J., to Westinghouse Electric Corporation. Wind direction recording system. 3,665,759, 5-30-72, Cl. 73-188.
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Dalgliesh, John D., Jr.; and Kisner, Clinton E. Building construction. 3,690,077, 9-12-72, Cl. 52-79.000.
Dali, Carmelo P.; and Szempruch, Walter T., to Baxter Laboratories, Inc. Nasal cannula. 3,682,171, 8-8-72, Cl. 128-206.000.
Dalibor, Horst; and Katsibas, Themistoklis, to Reichbold-Albert-Chemie Aktiengesellschaft. Method for manufacturing surface coatings and films and surface coatings and films for carrying out this method. 3,666,833, 5-30-72, Cl. 260-856.
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Dalik, Herbert A., to Flintkote Company, The. Pipe belling machine. 3,672,804, 6-27-72, Cl. 425-328.000.
Dalke, Charles Arthur; and Child, Cedric L., to General Electric Company. Nuclear reactor upper core grid. 3,660,233, 5-2-72, Cl. 176-87.
Dalke, George W., to Interpretation Systems Incorporation. Field plotter. 3,694,743, 9-26-72, Cl. 324-72.000.
Dalke, James A., to Metro Data Corporation. DC voltage regulator and impedance converter. 3,705,342, 12-5-72, Cl. 323-22.00t.
Dall'Asta, Gino: *See—*
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Dall'Asta, Gino; Carbonaro, Antonio; Borghi, Italo; and Greco, Alberto, to Goodrich, B. F., Company, The. Process for the preparation of linear, high molecular weight, sulphur vulcanizable copolymer of ethylene, propylene and 1,3-butadiene and catalyst sstems used therein. 3,682,870, 8-8-72, Cl. 260-80.700.
Dall'Asta, Leone: *See—*
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Dallet, Bernard; Doucerain, Jacques; and Moulin, Jean, to Societe de Traitements Electrolytiques et Electrothermiques (S.T.E.L.). Inductively heating brazing press. 3,646,304, 2-29-72, Cl. 219-6.5.
Dalley, James Edwin, to Bell Telephone Laboratories, Incorporated. Electronic bilateral beta element switch. 3,700,926, 10-24-72, Cl. 307-257.000.
Dalley, James Edwin; and Tsao-Wu, Nelson Tsin, to Bell Telephone Laboratories, Incorporated. Electronic reversing switch. 3,700,927, 10-24-72, Cl. 307-257.000.
Dalley, Lawrence A., to United States Steel Corporation. Apparatus for turning elongated articles. 3,687,301, 8-29-72, Cl. 214-1.0qs.
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Dalman, Donald P., to Gulf & Western Industrial Products Company. Infeed mechanism for can machinery. 3,693,567, 9-26-72, Cl. 113-115.000.
Dalman, Gary W.; and Neumann, Fred W., to Dow Chemical Company, The. Rearrangement and disproportionation of lower alkyl phenols. 3,692,846, 9-19-72, Cl. 260-621.00d.
Dalmasso, Claudio, to Olivetti, Ing. C., & C., S.p.A. Integrated semiconductor circuit package and method. 3,673,309, 6-27-72, Cl. 174-52.0pe.
Dalmau Guell, Jose Maria, to Jumberca, S.A. Device for circular knitting machines. 3,638,456, 2-1-72, Cl. 66-50.
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Dalton, Harold R. Carbon black dispersions, their preparation and products therefrom. 3,652,461, 3-28-72, Cl. 252-511.
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Dalzell, Darwin Allen, to Michigan Chemical Corporation. Production of flame retardant polypropylene compositions. 3,640,949, 2-8-72, Cl. 260-45.75.
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Danly, Donald E.; and Patterson, Andrew M., Jr., to Monsanto Company. Process of removing hydrolyzed polyacrylonitrile from an aqueous mixture. 3,660,258, 5-2-72, Cl. 204-73.

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Dann, Bert H., to Bell & Howell Company. Frequency dividing apparatus. 3,663,743, 5-16-72, Cl. 178-5.4.

Dann, Bert H., to Bell & Howell Company. Apparatus for correcting phase shifts in angle-modulated signals. 3,678,397, 7-18-72, Cl. 325-423.000.
Dann, Bert H., to International Video Corporation. High speed PIM demodulator. 3,681,702, 8-1-72, Cl. 329-102.000.
Dann, Bert H., to International Video Corporation. Voltage controlled oscillator having two phase shifting feedback paths. 3,686,587, 8-22-72, Cl. 331-117.00r.
Dann, Bert H., to Bell & Howell Company. Apparatus for correcting angular errors in color video signals. 3,697,673, 10-10-72, Cl. 178-5.4cd.
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Darmory, Franklin P.; and Di Benedetto, Marianne, to Ciba-Geigy Corporation. Soluble polyimides from aromatic dianhydrides and 2,4-diaminodiphenylamines and 2,4-diaminodiphenyl sulfides. 3,705,870, 12-12-72, Cl. 260-30.20r.
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Darr, Donald E.; Edwards, G Byron; Loehr, Clifford E.; and Young, Elgin E., to PPG Industries, Inc. Method of preparing pigmentary titanium dioxide. 3,640,745, 2-8-72, Cl. 106-300.
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Darrow, John O. G., to Westinghouse Air Brake Company. Commutating circuit. 3,694,695, 9-26-72, Cl. 315-222.000.
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Date, Tasuku; and Hashimoto, Eiichi, to Honda Giken Kogyo Kabushiki Kaisha. Apparatus and methods for controlling the amount of fuel injected into an internal combustion engine. 3,670,710, 6-20-72, Cl. 123-140.0mp.

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Dathe, Christian, to Institut fur Silikon- und Fluorkarbon-Chemie. Process for preparing fluorine compound from organosilicon compounds by means of fluorides of the first to third main groups of the periodic system. 3,655,714, 4-11-72, Cl. 260-448.2.

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Datta, Ranajit Kumar, to General Electric Company. Ternary alkaline-earth pyrosilicate luminescent materials activated with divalent europium. 3,676,361, 7-11-72, Cl. 252-301.40f.

Datta, Ranjit Kanti, to National Research Development Corporation. Seed handling. 3,638,393, 2-1-72, Cl. 53-180.

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Dattilo, Donald J., to Motorola, Inc. Mounting arrangement for magnetic tape head. 3,692,314, 9-19-72, Cl. 274-4.00a.

Dattilo, Giuseppe A., to Magnavox Company, The. Facsimile system with data compression by 'white space skipping'. 3,643,016, 2-15-72, Cl. 178-6.

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Dauben, Dwight L.; Froning, H. R.; and Jones, Loyd W., to Amoco Production Company. Process for treatment of water injection wells. 3,670,819, 6-20-72, Cl. 166-305.00r.

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Daudt, Charles H., Jr. Method and apparatus for detecting stall buffet. 3,686,936, 8-29-72, Cl. 73-180.000.

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Daugherty, Jack D.; Douglas-Hamilton, Diarmaid H.; Patrick, Richard M.; and Pugh, Evan R., to Avco Corporation. Laser or ozone generator in which a broad electron beam with a sustainer field produce a large area, uniform discharge. 3,702,973, 11-14-72, Cl.331-94.5pe.

Daugherty, Ralph K., 1/2 to Hanscom, Genevieve I., 1/2 to Hanscom, Genevieve I., Magnuson, Robert, Thomson, Lois J.; as trustee of the estate of and Magnuson, Roy M. Shuffle feed positioner. 3,665,987, 5-30-72, Cl. 146-81.

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Daugirda, Paul G., to Rheim Manufacturing Company. Fluid heater by-pass tee. 3,685,542, 8-22-72, Cl. 137-599.100.

D'Augustine, Frank Thomas, to RCA Corporation. Process for screening cathode ray tubes including salvaging of excess phosphor slurry. 3,672,932, 6-27-72, Cl. 117-33.50c.

Daul, George C.; and Barch, Fabian P., to Rayonier Incorporated. High crimp, high strength rayon filaments and staple fibers and process for making same. 3,632,468, 1-4-72, Cl. 161-173.

Daum, John I.; and Spurgin, Ray B., to Delta Manufacturing and Engineering Corporation. Vehicle washing apparatus. 3,688,784, 9-5-72, Cl. 134-123.000.

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Daum, Werner; Scheinpflug, Hans; Frohberger, Paul-Ernst; and Grewe, Ferdinand, to Farbenfabriken Bayer Aktiengesellschaft. N-(τ-Cyano-alkyl)-carbamyl-benzimidazoles. 3,673,210, 6-27-72, Cl. 260-309.000.

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Daussan, Henri Jean. Process of casting an ingot and stripping mold very shortly thereafter. 3,672,433, 6-27-72, Cl. 164-123.000.

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Davenport, Arthur Clyde. Working chamber. 3,661,290, 5-9-72, Cl. 220-1.

Davenport, Francis Robert, to American Filtrona Corporation, mesne. Cigarette filter. 3,690,326, 9-12-72, Cl. 131-10.500.

Davenport, Noel Ernest. Curable polymers as plasticizers. 3,652,733, 3-28-72, Cl. 260-884.

Davenport, Richard L.; and Niemiec, Gerald M., to Johnson, S. C., & Son, Inc. Stretch elastomer valve. 3,696,977, 10-10-72, Cl. 222-561.000.

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Davey, John E., to United States of America, Navy. Method of making ion implanted dielectric enclosures. 3,663,308, 5-16-72, Cl. 148-1.500.
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Davey, Ronald E.; Tomlinson, Charles N.; and White, Alan, to Treplex Safety Glass Company Limited. Laminated structures. 3,669,826, 6-13-72, Cl. 161-196.000.
David, Billy W., to Texas Instruments, Incorporated. Acoustic energy source utilizing the waterhammer phenomenon. 3,690,403, 9-12-72, Cl. 181-5.000.
David, Charles E.; and Wood, Wallace E., to United States of America, Army. High speed greatest of comparator circuit. 3,646,457, 2-29-72, Cl. 328-147.
David, Donald J.; and Zipps, David L., to Tracor, Inc. Adjustable apparatus for flame ionization and flame emission detection. 3,661,533, 5-9-72, Cl. 23-254.
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David, Reginald; and Estienne, Jean, to Rhone-Poulenc S.A. Process for the preparation of carbonyl derivatives and carboxylic acids. 3,671,582, 6-20-72, Cl. 260-533.00r.
David, Richard F.: *See—*
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David, Vivian; and Norton, David J., to Westinghouse Brake and Signal Company, Limited. Information transmission systems. 3,643,025, 2-15-72, Cl. 178-69.5.
Davidge, Ronald V.; and Kolpek, Robert A., to International Business Machines Corporation. Dictating and transcribing systems featuring random sentence arrangement with recognition and location of sentences in a preferred sequence. 3,660,616, 5-2-72, Cl. 19-100.2md.
Davidge, Ronald V.; Locklar, Henry C.; Ralston, James C.; and Ritchie, Robert T., to International Business Machines Corporation. Magnetic brush cleaning system. 3,700,328, 10-24-72, Cl. 355-15.000.
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Davidovits, Paul; and Egger, Maurice David. Scanning optical microscope. 3,643,015, 2-15-72, Cl. 178-6.8.
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Davidson, Arthur R.; Haubner, John E.; and White, George A., to Lamb-Weston, Inc. Method for processing edible foodstuffs. 3,642,495, 2-15-72, Cl. 99-100.
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Weinstein, James D.; and Davidson, Barry A., 3,689,949.
Davidson, Brian Y. Device for heating frankfurters and the like. 3,669,002, 6-13-72, Cl. 99-327.000.
Davidson, Cecil W., to Forney Engineering Company. Solid state circuit controlled three phase reversing starter. 3,646,416, 2-29-72, Cl. 318-207.
Davidson, Charlotte C.: *See—*
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Davidson, Daniel Fraser: *See—*
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Davidson, David Fulton; and Irving, Brian Arthur, to Associated Electrical Industries Limited. Electrically insulating joints for high-pressure pipelines. 3,705,735, 12-12-72, Cl. 285-53.000.
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Davidson, Emil, to Guild Molders, Inc. Pivotal connection for plastic product. 3,654,939, 4-11-72, Cl. 132-88.7.
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Davidson, Eugene M., to Hudson Products Corporation, mesne. Axial flow fans. 3,685,332, 8-22-72, Cl. 72-216.000.
Davidson, Eugene M. Axial flow fans. 3,689,971, 9-12-72, Cl. 29-156.8cf.
Davidson, Evan E.; and Moore, Richard L., to International Business Machines Corporation. Variable breakdown storage cell with negative resistance operating characteristic. 3,660,822, 5-2-72, Cl. 340-173.
Davidson, George L.; and Beltramo, Renaldo M., to Tuttle, Incorporated. Apparatus for generating ultra violet light. 3,662,175, 5-9-72, Cl. 250-86.
Davidson, Gilbert: *See—*
Orfei, John B.; Davidson, Gilbert; and Walters, John, 3,649,097.
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Davidson, James Clark: *See—*
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Davidson, James R., to Xerox Corporation. Manifold imaging system. 3,642,363, 2-15-72, Cl. 355-3.
Davidson, Jimmy L.; and Rouse, George V., to Radiation Incorporated. Precision polishing of semiconductor crystal wafers. 3,699,722, 10-24-72, Cl. 51-283.000.
Davidson, John Bruce, to Coventry Gauge & Tool Company Limited. Torque limiting devices. 3,650,362, 3-21-72, Cl. 192-56.
Davidson, John R., to Motorola, Inc. Shared volume and tone control system. 3,681,704, 8-1-72, Cl. 330-124.000.
Davidson, John R., to Motorola, Inc. Tone and volume control for a multi-channel audio amplifier system. 3,700,811, 10-24-72, Cl. 179-1.00d.
Davidson, John W. Reinforcement clip. 3,649,059, 3-14-72, Cl. 287-189.35.
Davidson, Keith Vernon; and Schell, Donald H., to United States of America, Atomic Energy Commission. Production-scale formation of ultrahigh purity carbide powers. 3,666,845, 5-30-72, Cl. 264-.500.
Davidson, Kenneth H.; and Morris, Carrol V., to Snorkel Fire Equipment Company. Fire fighting apparatus with telescoping boom. 3,675,721, 7-11-72, Cl. 169-24.000.
Davidson, Louis. Portable mantle assembly. 3,657,848, 4-25-72, Cl. 52-36.
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Davidson, Ralph L.; and Arsenault, James H., to Curtis & Marble Machine Company. Packaging machine. 3,648,429, 3-14-72, Cl. 53-77.
Davidson, Robert E., to Adams Rite Manufacturing Company. Electric release strike. 3,638,984, 2-1-72, Cl. 292-341.16.
Davidson, Robert W.; and Schuerch, Conrad. Method of forming wood. 3,642,042, 2-15-72, Cl. 144-327.
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Davidson, Roger A.: *See—*
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Davidson, William E., to General Electric Company. Adjustable sprayer iron. 3,685,180, 8-22-72, Cl. 38-77.500.
Davidson, William E.; Walker, Wendell C.; and Foster, Harold S., to General Electric Company. Adjustable manual spray iron. 3,685,181, 8-22-72, Cl. 38-77.500.
Davidson, William E.; and Walker, Wendell C., to General Electric Company. Steam and spray iron. 3,685,182, 8-22-72, Cl. 38-77.300.
Davidson, William J., to Electronic Controls Corporation. Permutation switches. 3,657,496, 4-18-72, Cl. 200-43.
Davidson, William J., to Electronic Controls Corporation. Permutation switch. 3,691,328, 9-12-72, Cl. 200-43.000.
Davidson, William M.; and Cole, Howard W., Jr., to Proteus, Inc. Locator devices. 3,657,752, 4-25-72, Cl. 9-9.
Davidson, William M.; and Cole, Howard W., Jr., to Proteus, Inc. Variable displacement recovery devices. 3,659,299, 5-2-72, Cl. 9-8.
Davie, William R., to Porter Pain Co., mesne. Method of preparing antifoulant coating compositions and resulting product. 3,676,388, 7-11-72, Cl. 260-28.
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Davies, Ben; and Henry, George R., to Dresser Industries, Inc. Basic refractory shapes. 3,635,740, 1-18-72, Cl. 106-59.
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Davies, David A., to Automotive Products Company Limited. Heat dissipating means for use with friction clutches of motor vehicles. 3,661,238, 5-9-72, Cl. 192-113.
Davies, David Frank; Dickingon, Thomas; and Foord, Arthur David. Oxygen sensors. 3,689,394, 9-5-72, Cl. 204-195.00p.
Davies, Dennis; and Kern, John P., to Digital Telephone Systems, Inc., mesne. Circuit usage analyzer. 3,691,303, 9-12-72, Cl. 179-8.00a.
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Davies, Fred. Pipe fitting tool. 3,683,657, 8-15-72, Cl. 72-112.000.
Davies, Gareth Morse, to Imperial Chemical Industries Limited. Antibacterial compositions. 3,681,493, 8-1-72, Cl. 424-185.000.
Davies, Geoffrey Peter, to Lockspike Limited. Railway rail-fastening member and a railway rail and fastening arrangement including the member. 3,658,246, 4-25-72, Cl. 238-349.000.
Davies, George Edward; Dukes, Michael; and Johnston, Thomas Paterson, to Imperial Chemical Industries Limited. Pharamaceutical compositions containing a sympathomimetic amine and a triazolo-pyrimidine derivative and methods of preventing bronchospasms. 3,65,896, 4-11-72, Cl. 424-251.
Davies, Gordon Idris; Killay, Swansea; and Williams, Terence, to British Iron and Steel Research Association, The. Material depositing apparatus. 3,678,888, 7-25-72, Cl. 118-48.000.
Davies, Guy Edward; and Fitzmaurice, Charles Michael, to Plessey Company Limited, The. Fluidic jet collectors. 3,650,285, 3-21-72, Cl. 137-81.5.
Davies, Guy Edward, to Plessey Company, Limited, The. Fluidic control systems. 3,680,578, 8-1-72, Cl. 137-81.500.
Davies, Guy Edward, to Plessey Company Limited, The. Fluidic control systems. 3,682,192, 8-8-72, Cl. 137-81.500.
Davies, Gwyn, to A.B. Electronic Components Limited. Alternate action mechanism for pushbutton switch with flat-headed latching pin. 3,707,610, 12-26-72, Cl. 200-153.00j.
Davies, Idwal; and Harris, Alan G., to British Iron and Steel Research Association, The. Process for the continuous production of a strip from powered metal. 3,653,884, 4-4-72, Cl. 75-214.
Davies, Idwal; Canning, Thomas Arthur; and Harris, Alan G., to British Iron and Steel Research Association, The. Production of strip from powdered metal. 3,658,517, 4-25-72, Cl. 75-200.
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Davies, Jenkin Eric; and Van Dijk, Jan, to U.S. Philips Corporation. O-(2-Aminoethyl)oximes of alkyl 2- (and 3-) benzofuranyl ketones. 3,658,850, 4-25-72, Cl. 260-346.2.
Davies, John G.; and Thomas, John C., to Buckbee-Mears Company. Method and apparatus for controlling the size of perforations in a shadow mask. 3,645,811, 2-29-72, Cl. 156-5.
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Davies, Norman, to Westinghouse Electric Corporation. Circuit interrupter with motor operated spring charging means including two ratchets and two pawls. 3,652,815, 3-28-72, Cl. 200-153.
Davies, Norman, to Westinghouse Electric Corporation. Circuit interrupter spring charging means with toggle type latch. 3,684,848, 8-15-72, Cl. 200-153.0sc.
Davies, Paul M., to TRW Inc., mesne. Self-searching memory utilizing improved memory elements. 3,646,528, 2-29-72, Cl. 340-173.1.
Davies, Peter W.; and Dennison, John P. Processes for refining the grain size of metals. 3,635,701, 1-18-72, Cl. 75-135.
Davies, Philip Hywel; Hobden, Maurice Vernon; Hulme, Kenneth Fraser; and Jones, Oliver. Process for preparing single crystalline Ag_3AsS_3 and Ag_3SbS_3 and solid solutions thereof. 3,696,038, 10-3-72, Cl. 252-62.900.
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Davies, Robert H., to Parker-Hannifin Corporation. Fluid motor. 3,673,925, 7-4-72, Cl. 92-128.000.
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Davies, Robert William, to Molins Limited. Mechanism for producing rectilinear motion. 3,703,103, 11-21-72, Cl. 74-86.000.
Davies, Robin Evan, to Marconi Company Limited, The and Standard Telephones and Cables Limited. Adding frequency-modulated electrical signals. 3,651,410, 3-21-72, Cl. 325-446.
Davies, Robin John; and Capewell, William Kenneth, to Elliott Brothers (London) Limited. Signal generating apparatus. 3,669,024, 6-13-72, Cl. 102-70.20r.
Davies, Ronald C., to Modern Research Inc., mesne. Auto theft prevention system. 3,675,036, 7-4-72, Cl. 307-10.0at.
Davies, Stuart Duncan; McCarthy, Roy Fred John; and Watts, Richard James, to Dowty Rotol Limited. Devices of fibrous-reinforced plastics material. 3,664,764, 5-23-72, Cl. 416-224.
Davies, Terence J.: *See—*
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Davies, Theodore E., to North American Manufacturing Company, The. Burner structure and method. 3,666,393, 5-30-72, Cl. 431-90.
Davies, Thomas Ellis; and Hopkins, Hubert Brian, to Dow Chemical Company Limited. Anti-static polymer compositions with discoloration suppressors. 3,639,518, 2-1-72, Cl. 260-880.
Davies, Walter J.; Hatton, Barry; Boyd, George C.; and Hanlan, Harvey E. W., to Kanting Oilfield Services Ltd. Sludge incinerator. 3,704,676, 12-5-72, Cl. 110-8.00r.
Davin, Donald R.; and Grant, Michael E., to Blaw-Knox Construction Equipment, Inc. Pavement widener. 3,636,831, 1-25-72, Cl. 94-45.
Davin, Donald R.; and Beckley, Gary H., to Blaw Knox Construction Equipment, Inc. Paving machine. 3,700,288, 10-24-72, Cl. 305-38.000.
Davin, Donald R., to Blaw-Knox Construction Equipment, Inc. Quick change screed extension for paving machines. 3,702,578, 11-14-72, Cl. 94-45.00r.
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Davino, Salvatore. Relief illusion television viewing apparatus. 3,680,949, 8-1-72, Cl. 350-144. 000.
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Davis, Allen V. C. Stereoscopic viewing apparatus with single-axis optical system with conventional object lens. 3,663,085, 5-16-72, Cl. 350-132.
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Davis, Anthony Charles; and Amos, Brian Franklyn, to Imperial Chemical Industries Limited. Synthetic yarns. 3,706,195, 12-19-72, Cl. 57-140.0by.
Davis, Ardell. Display rack. 3,666,114, 5-30-72, Cl. 211-49.
Davis, Ariel R. Cordless electric cross connect panel with improved reciprocating contact assembly. 3,652,813, 3-28-72, Cl. 200-16.
Davis, Ariel R. Method of manufacture. 3,656,378, 4-18-72, Cl. 83-1.
Davis, Ariel R. Framework for supporting air cooled electrical and electronic equipment. 3,701,928, 10-31-72, Cl. 317-99.000.
Davis, Bernard J., to Reichhold Chemicals, Inc. Vinyl toluene-alpha methyl styrene copolymers and method of preparing the same. 3,640,981, 2-8-72, Cl. 260-88.2.
Davis, Bernard J., to Reichhold Chemicals, Inc. Filter aid conditioners. 3,648,847, 3-14-72, Cl. 210-500.
Davis, Bernard J., to Reichhold Chemicals, Inc. Copolymers from para tertiary butyl styrene and alpha methyl styrene and method for producing same. 3,654,250, 4-4-72, Cl. 260-88.2.
Davis, Bernard J.; and Ranson, Wesley J., to Reichhold Chemicals, Inc. Copolymers from paratertiary butyl styrene and diisobutylene and method for producing same. 3,702,842, 11-14-72, Cl. 260-88.20c.
Davis, Billy C., to Texas Instruments, Incorporated. AC coupled comparator and A/D converter. 3,657,563, 4-18-72, Cl. 307-251.

Davis, Billy D.; and Jones, Elvis E., to Dow Chemical Company, The. Polyurethane foams of organic polyisocyanates and polyols derived from alkylene diamines and novolac resins and method of making same. 3,686,101, 8-22-72, Cl. 260-2.5aq.
Davis, Billy E.; and Gilliam, Paul V., to Signet Controls, Inc. Calibrating barrel. 3,643,489, 2-22-72, Cl. 73-3.
Davis, Billy E.; and Dunegan, Ronald G. Fluid flow direction switching means. 3,682,198, 8-8-72, Cl. 137-625.430.
Davis, Billy W., to Schlumberger Technology Corporation. Hoop stressed beam hydrophone. 3,675,193, 7-4-72, Cl. 340-10.000.
Davis, Buell L.; and Pulliam, Richard D. Bag drawstring threader. 3,688,379, 9-5-72, Cl. 29-241.000.
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Davis, Carlton J., Sr.: *See*—
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Davis, Cecil J., to Bridge Data Products, Inc., mesne. Card feeder. 3,642,271, 2-15-72, Cl. 271-41.
Davis, Cecil J., to Bridge Data Products, Inc. Apparatus for punching, printing and verifying data cards. 3,684,164, 8-15-72, Cl. 234-34.000.
Davis, Charles, to Davis Construction Corporation. Cover plate attachment for elevating scraper. 3,698,109, 10-17-72, Cl. 37-124.000.
Davis, Charles R., to United States of America, Navy. Cryogenic single sensor three component magnetometer. 3,667,033, 5-30-72, Cl. 324-43.00r.
Davis, Charles S., to Curtiss-Wright Corporation. Counter-rotating output transmission. 3,646,834, 3-7-72, Cl. 74-674.
Davis, Charles T. Cleaning and sterilizing device. 3,699,984, 10-24-72, Cl. 134-95.000.
Davis, Chester P., to Dow Chemical Company, The. Bag closure means. 3,670,876, 6-20-72, Cl. 206-58.000.
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Davis, Curry Beach, to Arizona Chemical Company, mesne. Molecular sieve 13-X catalyzed isomerization of alpha-pinene-improvement of catalyst activity. 3,696,164, 10-3-72, Cl. 260-675.500.
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Davis, David E., to Midwest Steel Fabricators, Inc. Aggregate dryer for asphalt plant. 3,703,274, 11-21-72, Cl. 263-30.000.
Davis, David S.; and Kim, Young K., to Witco Chemical Corporation. Halogenation of hydroxyaryl sulfones. 3,703,556, 11-21-72, Cl. 260-607.00a.
Davis, Delbert A.; Averette, Samuel R.; and Voss, Gary Dwight, to Burlington Industries, Inc. Laminated fabric for use as the fabric upper of shoes. 3,642,563, 2-15-72, Cl. 161-88.
Davis, Dennis A., to General Motors Corporation. Cooling fan. 3,635,285, 1-18-72, Cl. 165-51.
Davis, Dennis J.; Sudnick, Dennis J.; Juhasz, John E.; and Kurichh, Sham, to Bendix Corporation, The. Adaptive control for fluid pressure braking system. 3,677,609, 7-18-72, Cl. 303-21.0be.
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Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Electrical coil. 3,660,791, 5-2-72, Cl. 336-192.
Davis, Donald A. Wall mounted expansible table. 3,648,628, 3-14-72, Cl. 108-33.
Davis, Donald A. Drawer mounted expansible table. 3,680,942, 8-1-72, Cl. 312-317.000.
Davis, Donald A.; and Galluzzo, Anthony, to Schwamb Corporation, The. Modular cabinet construction. 3,700,300, 10-24-72, Cl. 312-240.000.
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Davis, Donald William; Baloga, James Michael; and Olmsted, Bruce Chamberlin, Jr., to Johns-Manville Corporation. High efficiency filter aid. 3,658,184, 4-25-72, Cl. 210-504.
Davis, Donald Y.; and Coffinberry, George A., to General Electric Company. Fluid supply system. 3,699,774, 10-24-72, Cl. 60-39.280.
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Davis, Earl K.; Hansen, Kent W.; and Jayachandra, Yaemmanur, to Motorola, Inc. Black enamel glass for cathode-ray tube. 3,654,505, 4-4-72, Cl. 313-92.
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Davis, Edward J., to United States of America, Navy. Ejector sensor fuze. 3,631,803, 1-4-71, Cl. 102-70.
Davis, Edward J., to United States of America, Navy. Bomblet fuze system. 3,646,889, 3-7-72, Cl. 102-70.
Davis, Edward L.; and Becsey, Leslie, to General American Transportation Corporation. Semi-automatic kingpin locking mechanism. 3,632,145, 1-4-72, Cl. 287-20.5.
Davis, Edward P.; and Gould, Eric G. Method of curing a rubber or plastic tire. 3,649,729, 3-14-72, Cl. 264-40.
Davis, Edwin J.; and Tolson, Bill A., to United States of America, National Aeronautics and Space Administration. Cable stabilizer for open shaft cable operated elevators. 3,666,051, 5-30-72, Cl. 187-1.000.
Davis, Edwin R. Fuel vapor recovery apparatus. 3,672,180, 6-27-72, Cl. 62-54.000.
Davis, Edwin R. Multiple stage vapor condensing unit. 3,678,661, 7-25-72, Cl. 55-269.000.
Davis, Elbert, to Nupla Corporation. Method for connecting attachments to fiberglass rods. 3,660,887, 5-9-72, Cl. 29-460.
Davis, Elbert. Structure for connecting attachments to fiberglass rods. 3,672,712, 6-27-72, Cl. 287-20.20r.
Davis, Ernest D.: *See*—
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Davis, Francis A., Jr., to Paramount Packaging Corporation. Machine for making plastic bags. 3,654,841, 4-11-72, Cl. 93-33.
Davis, Francis Cecil; and Pirie, John Chapman, to Stauffer-Wacker Silicone Corporation. Silicone resin compositions. 3,650,852, 3-21-72, Cl. 260-46.5.
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Davis, Francis E., Jr.; Derr, Walter R.; and Ginter, Earle F., to Mobil Oil Corporation. Reforming with bimetallic reforming catalyst. 3,661,768, 5-9-72, Cl. 208-139.
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Davis, Gary F., Jr.; and Maus, Nolan Keith, to Davis, Gary, Music Makers Store, Inc. Timed control system for audio reproduction with a bistable relay. 3,636,272, 1-18-72, Cl. 179-100.1.
Davis, Gary F., Jr. Black and white television camera expandable to a color television camera. 3,641,256, 2-8-72, Cl. 178-5.4.
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Davis, George M.; and Lander, William M. Inversion or tilt indicator. 3,688,734, 9-5-72, Cl. 116-114.0ah.
Davis, Gerald T.: *See*—
Martinez, Esteban; Davis, Gerald T.; and Van Brimer, Russell H., 3,661,304.
Davis, Gerald T.; and Fetters, Robert A., to Mead Corporation, The. Production of colored images on paper bases. 3,649,357, 3-14-72, Cl. 117-36.2.
Davis, Gerald T.; and Fetters, Robert A., to Mead Corporation, The. Production of reactant sheets for developing colorless dye images. 3,653,945, 4-4-72, Cl. 117-36.2.
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Davis, Gerard Richard, to Blackinton, V. H., & Co., Inc. Credential and insignia holding case. 3,660,915, 5-9-72, Cl. 40-10.
Davis, Gerome. Geometric instrument for azimuth sightings. 3,641,677, 2-15-72, Cl. 33-67.
Davis, Gordon E. Automobile locking device. 3,690,131, 9-12-72, Cl. 70-203.000.
Davis, Grosse Ile Pauls: *See*—
Vogt, Herwart C.; and Davis, Grosse Ile Pauls, 3,706,683.
Davis, Grover M. Game board with magnetic game pieces. 3,680,865, 8-1-72, Cl. 273-134.0ae.
Davis, Harry J.: *See*—
Furlani, John J.; Davis, Harry J.; and Ingersoll, Philip, 3,653,324.
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Davis, Harry P., to PPG Industries, Inc. Safety windshield and method of making same. 3,700,542, 10-24-72, Cl. 161-125.000.
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Davis, Harry T.: *See*—
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Davis, Harry T., to Hood Sailmakers, Inc. Attachment point. 3,653,353, 4-4-72, Cl. 114-115.
Davis, Hazel E. Lipstick dispenser. 3,677,654, 7-18-72, Cl. 401-63.000.

Davis, Henry J. Machine for extracting dirt from holes. 3,651,621, 3-28-72, Cl. 55-304.
Davis, Howard J. Method for making a tobacco substitute composition. 3,638,660, 2-1-72, Cl. 131-2.
Davis, Hugh J. Method and device for biopsy specimen collecting and handling. 3,640,268, 2-8-72, Cl. 128-2.
Davis, James A.; Talbert, Sherwood G.; Hazard, Herbert R.; and Gibeaut, William A., to Columbia Gas System Service Corporation. Melting of fusible materials. 3,663,203, 5-16-72, Cl. 75-43.000.
Davis, James A. Receptacle for dispensing rollable pill containers. 3,677,440, 7-18-72, Cl. 221-279.000.
Davis, James E.: *See—*
Leeds, Kathleen E.; and Davis, James E., 3,667,693.
Davis, James E.; and Frick, Harold L., to Whirlpool Corporation. Vent for a self-cleaning oven. 3,659,578, 5-2-72, Cl. 126-21.
Davis, James E. Electro-mechanical educational apparatus. 3,675,340, 7-11-72, Cl. 35-9.00d.
Davis, James G. Dispensing holder for paper rolls and the like. 3,672,591, 6-27-72, Cl. 242-55.200.
Davis, James G., to United States of America, Air Force. Transparent fluid sampler permitting particulate analysis in an assembled condition. 3,677,065, 7-18-72, Cl. 73-28.000.
Davis, James R.; and Blum, Arthur B., to Standard Pressed Steel Co. Locknut. 3,678,978, 7-25-72, Cl. 151-21.
Davis, Jerry B.: *See—*
Walz, Frank C.; and Davis, Jerry B., 3,636,667.
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Davis, John A., Jr.; and Kunzman, William J., to Marathon Oil Company. Mobility control in a miscible-type crude oil recover process. 3,658,130, 4-25-72, Cl. 166-273.
Davis, John A., Jr., to Marathon Oil Company. Brine salt concentration regulation using micellar dispersions. 3,706,659, 12-19-72, Cl. 210-21.000.
Davis, John A., Jr.; and Rhudy, John S., to Marathon Oil Company. Waterflooding by regulating the total hardness within the drive water. 3,707,190, 12-26-72, Cl. 166-273.000.
Davis, John Alan: *See—*
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Davis, John Christopher Hammond: *See—*
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Davis, John Christopher Hammond, to Plessey Telecommunications Research Limited; k/a Plessey BTR Limited. Gyroscope uncaging device. 3,677,098, 7-18-72, Cl. 74-5.120.
Davis, John L. Mobile drive mechanism. 3,651,712, 3-28-72, Cl. 74-687.
Davis, John R.; and Platteschorre, Kornelis, to Oliver Machinery Company. Label machine indexing. 3,707,423, 12-26-72, Cl. 156-517.000.
Davis, John R., Jr.: *See—*
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Davis, John S.: *See—*
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Davis, John S., to United States of America, Navy. Remote-controlled launch system for missiles. 3,680,749, 8-1-72, Cl. 244-3.140.
Davis, John W.; and Belew, Herschel W., Jr., to National Aeronautics and Space Administration. Altitude simulation chamber for rocket engine testing. 3,670,564, 6-20-72, Cl. 73-117.100.
Davis, Joseph W., III. Three-dimensional game board. 3,664,671, 5-23-72, Cl. 273-131.
Davis, Judson S., to General Motors Corporation. Vehicle speed indicator and controller. 3,635,306, 1-18-72, Cl. 180-110.
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Davis, Kenneth E., to Hobart Manufacturing Company, The. Analysis of comminuted meat products. 3,673,852, 7-4-72, Cl. 73-15.400.
Davis, Lawrence D. Apparatus for aligning trailer axles. 3,686,770, 8-29-72, Cl. 33-193.000.
Davis, Leland E.: *See—*
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Davis, Lem, Jr., to Dow Chemical Company, The. Epoxy resin, amine or amidealdehyde, and organic ester of phosphoric acid or organic sulfonic acid. 3,651,169, 3-21-72, Cl. 260-834.
Davis, Leo W.; Lackey, Marion D.; Ross, John Reuben; and Trenary, Bryant, to Peerless Mfg. Co. Vehicle for traversing rough terrain. 3,704,040, 11-28-72, Cl. 298-17.00r.
Davis, Leonard A., to Garver-Davis Incorporated. Solid waste incinerator. 3,645,218, 2-29-72, Cl. 110-8.
Davis, Leonard P.; and Elliott, Robert M., to Kimberly-Clark Corporation. Apparatus for continuous molding sheet material. 3,685,930, 8-22-72, Cl. 425-71.000.
Davis, Lester M.: *See—*
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Davis, Lewis M.; and Hesling, Donald M., to Sealed Power Corporation. Piston ring construction. 3,695,622, 10-3-72, Cl. 277-139.000.
Davis, Lewis M.; and Warrick, Frank G., to Sealed Power Corporation. Loading sleeve for installing a piston and ring assembly into a cylinder bore. 3,707,027, 12-26-72, Cl. 29-222.000.
Davis, Louis E.; Jensen, Billy M.; Larson, Floyd L.; Huck, Rainer F.; and Stumph, Stephen L., to Bio-Logics, Inc. Encoding and verifying information. 3,670,386, 6-20-72, Cl. 29-211.00r.
Davis, M. Paul; and Theobald, Paul R., to American Lava Corporation. Gold metallizing of refractory metals on ceramic substrates. 3,664,868, 5-23-72, Cl. 117-212.000.
Davis, Malcolm F.: *See—*
Kauffman, Harry D.; and Davis, Malcolm F., 3,699,303.
Davis, Malcolm F., to Cincinnati Milacron Inc. Method and apparatus for detecting and controlling by relative movement between the tool and workpiece arcing conditions in an EDM process. 3,662,143, 5-9-72, Cl. 219-69.
Davis, Malcolm F., to Cincinnati Milacron Inc. Apparatus for digitally controlling the magnitude of a machining gap in an EDM process. 3,694,599, 9-26-72, Cl. 219-69.00g.
Davis, Marguriette N. Treatment for heart worm microfilariae. 3,660,570, 5-2-72, Cl. 424-147.000.
Davis, Martin A.; and Dobson, Thomas A., to Ayerst, McKenna & Harrison Limited. 10,11-Dihydro-10,5-(iminomethano)-5H-dibenzo a,d cyclohepten-10-0l; acid addition salts thereof; and process for preparing same. 3,641,038, 2-8-72, Cl. 260-289.
Davis, Marvin A. Gun recoil reducer. 3,683,534, 8-15-72, Cl. 42-1.00r.
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Davis, Melvin Lee; and Cutchins, Ray L. Tractor tire valve assembly. 3,635,275, 1-18-72, Cl. 152-429.
Davis, Merlin. Blood diagnostic instruments. 3,689,393, 9-5-72, Cl. 204-195.00b.
Davis, Neil M.: *See—*
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Davis, Noel, to Integrated Development and Manufacturing Co. Cold finger dehumidification system. 3,703,814, 11-28-72, Cl. 62-95.000.
Davis, Parke & Company: *See—*
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Davis, Patrick J.: *See—*
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Davis, Paul, to Sweetheart Plastics, Inc. Disposable pet animal feed container and holder. 3,653,362, 4-4-72, Cl. 119-61.
Davis, Paul, to Sweetheart Plastics, Inc. Container. 3,677,435, 7-18-72, Cl. 220-60.00r.
Davis, Paul A.: *See—*
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Davis, Paul C., to Bell Telephone Laboratories, Incorporated. Crystal-controlled square-wave generator. 3,649,850, 3-14-72, Cl. 307-261.
Davis, Paul D., Jr.; and McCullough, Thomas E., to Texas Instruments, Incorporated. Magnetic detection system for detecting movement of an object utilizing signals derived from two orthogonal pick up coils. 3,644,825, 2-22-72, Cl. 324-41.
Davis, Paul K., to Pacific Roller Die Co., Inc. Method of making helical pipe. 3,650,015, 3-21-72, Cl. 29-477.7.
Davis, Paul K., to Pacific Roller Die Co., Inc. Curving method and apparatus for ridged sheet material. 3,664,170, 5-23-72, Cl. 72-307.
Davis, Paul W., Jr.: *See—*
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Davis, Peter J. Multiple compartment thermally insulated container. 3,705,661, 12-12-72, Cl. 215-6.000.
Davis, Quinton C., IV. Water surface depth instrument. 3,675,483, 7-11-72, Cl. 73-327.000.
Davis, Rachel D. Perineal protector. 3,665,920, 5-30-72, Cl. 128-287.
Davis, Ralph A.: *See—*
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Davis, Ralph A.; and Tigner, Ronald G., to Dow Chemical Company, The. Recovery of bromine from organic bromides. 3,705,010, 12-5-72, Cl. 423-502.000.
Davis, Ramsey H. Material mixing apparatus. 3,638,920, 2-1-72, Cl. 259-104.
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Davis, Raymond C., to Ingersoll-Rand Company. Fluid-motion apparatus. 3,644,055, 2-22-72, Cl. 415-211.
Davis, Richard K., to General Electric Company. Acceleration control circuit for a gas turbine. 3,662,545, 5-16-72, Cl. 60-39.280.
Davis, Richard K., to General Electric Company. Gas turbine temperature adaptive control. 3,667,218, 6-6-72, Cl. 60-39.28t.
Davis, Richard P.; and Dunlap, Philip A., 33 1/3 to Hanson, Barbara. String depressor and method of using same. 3,704,646, 12-5-72, Cl. 84-454.000.
Davis, Robert: *See*—
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Davis, Robert, to Combustion Equipment Associates, Inc. Gas analyzer. 3,700,411, 10-24-72, Cl. 23-254.00e.
Davis, Robert A.; Grahame, Robert E.; and Kulka, Marshall, to Uniroyal, Inc. Control of virus diseases of plants with carboxamido oxathiins. 3,657,449, 4-18-72, Cl. 424-276.
Davis, Robert A., to Xerox Corporation. Adjustable label knife. 3,668,963, 6-13-72, Cl. 83-346.000.
Davis, Robert D., to Spectral Dynamics Corporation. Frequency band shifter. 3,691,394, 9-12-72, Cl. 307-3.000.
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Amici, Francis Robert; and Davis, Robert E., 3,650,066.
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Davis, Roger C., to General Motors Corporation. Electro-optical vehicle exhaust particulate monitor. 3,700,330, 10-24-72, Cl. 356-38.000.
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Davis, Samuel B., Jr., to Vits Maschinenbau GmbH. Fastening tools. 3,698,231, 10-17-72, Cl. 72-391.000.
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Davis, Steven S., to Envirotech Corporation. Novel clamping device for sectors of a rotary disc filter. 3,692,181, 9-19-72, Cl. 210-331.000.
Davis, Stuart C., to Photo Corporation of America. Photographic camera exposure controlling means. 3,701,308, 10-31-72, Cl. 95-11.50r.
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Davis, Walter Richard; and Solomon, James E., to Motorola, Inc. Temperature stable monolithic multiplier circuit. 3,668,440, 6-6-72, Cl. 307-310.000.
Davis, Walter Richard, to Motorola, Inc. Hall effect switching device. 3,671,767, 6-20-72, Cl. 307-309.000.
Davis, Ward B., to Stesiliver Control Royalties. Disposable colorimetric pH indicator and sampling device for swimming pool water and the like. 3,701,633, 10-31-72, Cl. 23-253.0tp.
Davis, Wayne Edward, to Johns-Manville Irrigation Corporation. Transient protection for electrical irrigation control systems. 3,656,024, 4-11-72, Cl. 317-20.
Davis, William; and Stevenson, Moses. Coin-operated safety latch for phone booths and the like. 3,685,627, 8-22-72, Cl. 194-32.000.
Davis, William A., to Vongrey, Michael L., Jr. Method of subsidence and acid entrained drainage control and admixtures therefor. 3,704,594, 12-5-72, Cl. 61-36.
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Davis, William C. Sprinkler head earth and grass cutter mechanism. 3,680,639, 8-1-72, Cl. 172-15.000.
Davis, William E. Food chopper. 3,696,849, 10-10-72, Cl. 146-146.
Davis, William F. Pipe cutting devices and methods of making and using the same. 3,656,734, 4-18-72, Cl. 266-23.
Davis, William F.; and Frederiksen, Thomas M., to Motorola, Inc. Audio frequency amplifier. 3,665,329, 5-23-72, Cl. 330-19.000.
Davis, William H.; Hornung, Louis M.; Lindsey, Royce D.; and Tanner, Howard C., to International Business Machines Corporation. System for determining line measure. 3,647,041, 3-7-72, Cl. 197-19.
Davis, William R.: *See*—
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Davison, Ellard D., Jr.; and Haviland, Merrill L., to General Motors Corporation. Method and apparatus for control of transmission breathing. 3,686,973, 8-29-72, Cl. 74-606.000.
Davison, Ellison L.; Brinkhoff, Carl H.; and Menold, Robert F., to Mine Safety Appliances Company. Adjustable length temple for spectacles. 3,667,834, 6-6-72, Cl. 351-118.000.
Davison, Joseph W., to Phillips Petroleum Company. Gas separation. 3,633,371, 1-11-72, Cl. 62-17.
Davison, Joseph W., to Phillips Petroleum Company. Polyisoprene from amylenes via N-amylene isomerization, oxidative dehydrogenation, extractive distillation, and polymerization of low concentration isoprene. 3,635,931, 1-18-72, Cl. 260-94.2.
Davison, Joseph W., to Phillips Petroleum Company. Isoprene from mixture of C_5-paraffins and olefins by one-step oxidative dehydrogenation with isomerization of recycle n-amylenes. 3,660,513, 5-2-72, Cl. 260-680.
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Dawson, Robert William, to Bell Telephone Laboratories, Incorporated. Reverse bias pulsing of junction diodes to reduce deterioration. 3,666,960, 5-30-72, Cl. 307-311.000.
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Day, Christopher C., to American Optical Corporation. Impedance pneumograph. 3,677,261, 7-18-72, Cl. 128-2.10z.
Day, Christopher C., to American Optical Corporation. Electrical signal slope polarity change detector. 3,678,296, 7-18-72, Cl. 307-231.000.
Day, Christopher C., to American Optical Corporation. Instrument power-disconnect alarm. 3,678,491, 7-18-72, Cl. 340-253.00c.
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Day, Frank A.; and Repella, James A., to Federal-Mogul Corporation. Dual-lip shaft seal with spring urged auxiliary lip. 3,692,318, 9-19-72, Cl. 277-164.000.
Day, Frederic F.; Emery, George E.; and Dadura, James G., to Texaco Inc. Manufacture of lube oil containing overbased sulfurized calcium alkyphenolate. 3,706,632, 12-19-72, Cl. 252-42.700.
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Day, John J.; and Hirschman, Paul S., to Ocean Protein Corporation. Growing tank for crustaceans. 3,658,034, 4-25-72, Cl. 119-2.
Day, John J.; and Hirschman, Paul S., to Ocean Protein Corporation. Mating tank for crustacea. 3,682,138, 8-8-72, Cl. 119-2.000.
Day, John J.; and Hirschman, Paul S., to Ocean Protein Corporation. Method of and tank for hatching crustacea. 3,685,489, 8-22-72, Cl. 119-2.000.
Day, John J.; and Hirschman, Paul S., to Ocean Protein Corporation. Method and apparatus for hatching crustacea. 3,696,788, 10-10-72, Cl. 119-2.000.
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Day, Lawrence, to Spitfire Tool & Machine Co., Inc. Machine for parallelly lapping opposite surfaces of a workpiece. 3,659,384, 5-2-72, Cl. 51-131.
Day, Lawrence, to Spitfire Tool & Machine Co., Inc. Means for applying a liquid abrasive over the surface of a rotatable lapping table of a lapping machine. 3,683,562, 8-15-72, Cl. 51-131.000.
Day, Leon; and McCandless, Jiles Joe. Valve stem grinding device. 3,631,639, 1-4-72, Cl. 51-241.
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Day, Richard A.; and French, William E., to Hughes Aircraft Company. Electronic repeater servo. 3,671,728, 6-20-72, Cl. 235-189.000.
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Dayton, David R.; and Brooks, David N., to Sylvania Electric Products, Inc. Movie light. 3,659,092, 4-25-72, Cl. 240-1.3.
Dayton, David S.; and Girard, Alfred L., to Technical Communications Corporation. Asynchronous, swept frequency communication system. 3,691,464, 9-12-72, Cl. 325-55.00.
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De Angelis, Gerald George; and Hess, Hans-Jurgen Ernst, to Pfizer Inc. Benzothieno [3,2-d]- and benzofuro [3,2-d] pyrimidines. 3,706,747, 12-19-72, Cl. 260-256.50r.
De Angelis, Gerald George; and Hess, Hans-Jurgen Ernst, to Pfizer Inc. Certain 4-amino-6-aryl-pyrimidines. 3,707,560, 12-26-72, Cl. 260-256.50r.
De Angelis, Sabino J. Camera device. 3,669,533, 6-13-72, Cl. 352-95.000.
De Angelis, William M., to Technicon Instruments Corporation. Coupling for joining glass pipe sections and the like. 3,679,237, 7-25-72, Cl. 285-109.000.
De Angelis, William M., to Daran Products, Inc. Valve for laboratory glassware. 3,698,683, 10-17-72, Cl. 251-209.
De Angelo, Gerald J.; Gelzheiser, Francis L.; and Coley, Kenneth R. Terminal device. 3,683,414, 8-8-72, Cl. 339-272.0vc.
De Azevedo, Joseph P.: *See—*
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De Barbadillo, John J., II: *See—*
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De Barbieri, Ettore; and Boggian, Umberto. Diver's mask. 3,694,814, 10-3-72, Cl. 2-14.00d.
De Barge, Raymond R., to Emhart Corporation. Packing machine for folding blanks around article groups fed continuously therethrough. 3,681,893, 8-8-72, Cl. 53-209.000.
De Barrau, Andre, 50% to Leruste, Gerard Henri Jules. Adjuvant composition for concretes and mortars. 3,663,286, 5-16-72, Cl. 106-314.000.
De Barros, Fernando. Nivagational trapezoid. 3,673,690, 7-4-72, Cl. 33-75.000.
De Barros, Manuel Joaquim Monteiro, to Eurofina-Investimentos e Estudos Techicos e Financeiros, S.A.R.L. Method for the construction of brick walls. 3,696,576, 10-10-72, Cl. 52-747.000.
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De Baun, Kenneth W., to Servodyne Corporation. Universal filter holding frame and media assembly. 3,707,046, 12-26-72, Cl. 55-483.000.
De Beaulieu, Henri Philippe: *See—*
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De Bell, Lawrence R.; and Price, David D., Jr., said De Bell assor. to Economy Company. Method for recording predetermined information duration within pre-set record length. 3,691,314, 9-12-72, Cl. 179-109.20s.
De Bell, Lawrence R.; and Price, David D., Jr., to Economy Company. Audio tutoring device including recording capability. 3,705,271, 12-5-72, Cl. 179-100.2md.
de Benneville, Peter L.; and Blessing, Heinz W., to Rohm & Haas Company. Separation of polypeptide substances with macroreticular resins. 3,649,456, 3-14-72, Cl. 195-66.
De Berardinis, Albert J., to Atlas Chemical Industries, Inc. Alkali treated hydrogenation catalyst. 3,705,199, 12-5-72, Cl. 260-635.00c.
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De Bie, Edouard, to Metallurgie Hoboken. Process and apparatus for pulling single crystals of germanium. 3,637,439, 1-25-72, Cl. 148-1.6.
De Bie, Edouard, to Metallurgie Hoboken. Device for manipulating copper bars. 3,656,617, 4-18-72, Cl. 209-122.
De Bie, Edouard, to Metallurgie Hoboken. Apparatus for the casting of metal anodes. 3,659,644, 5-2-72, Cl. 164-326.
De Bie, Edouard; Tougarinoff, Boris; Sperner, Franz; and Moll, Justus. Apparatus for purifying metallic melts in a vacuum. 3,689,046, 9-5-72, Cl. 266-34.00v.
De Blance, Donald E., to Texas Instruments, Incorporated. Voltage controlled color film recording system. 3,643,021, 2-15-72, Cl. 178-15.

De Blok, Jan F.; and Jansse, Leonard, to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Method for deoxidizing effervescent steel. 3,702,151, 11-7-72, Cl. 164-57.000.
De Boeck, Paul; Marteel, Bernard; and Schrijvers, Jozef, to Belgonucleaire, S.A. Nuclear fuel. 3,669,833, 6-13-72, Cl. 176-68.000.
De Boer, Charles D.; and Luckey, George W., to Eastman Kodak Company. Pigmented photosensitive polymer system. 3,677,763, 7-18-72, Cl. 96-82.000.
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De Boer, Eeltje, to U.S. Philips Corporation. Two register parallel binary adder/subtracter. 3,676,657, 7-11-72, Cl. 235-175.000.
De Boer, Geert, to Stork Amsterdam N.V. Method and a device for preparing a quickly soluble powder. 3,687,681, 8-29-72, Cl. 99-56.000.
De Boer, Henri G. J.; Brooshooft, Thomas; and Wemmers, Anton, to GAF Corporation. Two component diazotype composition having additionally an aniline compound. 3,704,129, 11-28-72, Cl. 96-91.00r.
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De Bretagne, Yves; and Manier, Francis, to Honeywell Inc. Setpoint and actual value indicator. 3,707,676, 12-26-72, Cl. 324-157.000.
De Brey, Robert J. Particle monitor. 3,674,316, 7-4-72, Cl. 302-65.000.
De Brie Perry, Forbes George, to National Research Development Corporation. Rotary sump with fluid pick-up. 3,662,857, 5-16-72, Cl. 184-6.2.
De Broqueville, Axel. Electromagnetic propulsion device for use in the forward part of a moving body. 3,662,554, 5-16-72, Cl. 60-202.
De Bruyne, Eric, to N.V. Bekaert S.A. Cathodic activation of stainless steel. 3,654,099, 4-4-72, Cl. 204-29.
De Bruyne, Norman A.; and Brewin, Geoffrey M., to Techue Systems Incorporated. Pneumatic programme reader. 3,693,658, 9-26-72, Cl. 137-624.180.
De Bucs, Eugen Szabo: *See—*
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De Cadenet, Jean-Jacques. Welded deposits for austenitic steels. 3,693,245, 9-26-72, Cl. 29-504.000.
De Carlo, Angelo N.; and De Carlo, Vito G. Catcher frame for harvester. 3,690,054, 9-12-72, Cl. 56-330.000.
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De Caro, Aristide R., to Westinghouse Electric Corporation. Bromine filled bipost lamp with a high temperature resistant glass envelope. 3,644,776, 2-22-72, Cl. 313-318.
De Caro, Aristide R.; and Rainone, Nicholas J., to Westinghouse Electric Corporation. Lamp combination comprising an improved envelope for tungsten-halogen incandescible projection lamp. 3,648,094, 3-7-72, Cl. 313-221.
De Caro, Charles J., to Speed Fastener, Inc. Fastener drive tool for caseless loads. 3,688,964, 9-5-72, Cl. 227-10.000.
De Carpentier, Pieter: *See—*
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De Carranza, Elma. Method of separating proteins from proteinaceous animal material using mucilage of flax, quine or fleawort. 3,684,790, 8-15-72, Cl. 260-112.000.
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De Cazenove, Arnaud. Packaging device. 3,650,394, 3-21-72, Cl. 206-65.
De Cesaris, Frederick, to Guild Metal Products, Inc. Table construction. 3,643,608, 2-22-72, Cl. 108-157.
De Claire, James H.; Dully, Floyd I.; and Hull, Neil A., to General Motors Corporation. Drip molding for a convertible top. 3,653,711, 4-4-72, Cl. 296-107.
De Clerck, Robert D.; and Smith, Glenn D., to Xerox Corporation. Encoding system. 3,689,915, 9-5-72, Cl. 340-347.pdd.
De Clercq, Eric Desire Alice: *See—*
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De Cock, Etienne Marie, to Agfa-Gevaert N.V. Method of testing a strip material and apparatus therefor utilizing autocorrelation. 3,697,759, 10-10-72, Cl. 250-209.000.
De Coene, Frans J., to Clayson N.V. Feeder device for combine harvesters. 3,648,709, 3-14-72, Cl. 130-27.
De Coene, Frans J.; and Strubbe, Gilbert J., to Clayson N.V. Anti-dust device for a combine. 3,669,124, 6-13-72, Cl. 130-27.00r.
De Coene, Frans J., to Clayson N.V. Separator device for combine harvesters. 3,678,938, 7-25-72, Cl. 130-27.00e.
De Core, Fred; Peake, Thaddeus A.; and Marshall, Ted R., to United States of America, Navy. Method of rebuilding worn gear teeth by explosive swaging. 3,668,768, 6-13-72, Cl. 29-401.000.
De Corso, Serafino M.; and Meyer, Mitchell I., to Westinghouse Electric Corporation. Flame detector. 3,635,018, 1-18-72, Cl. 60-39.09.
De Corso, Serafino M., to Westinghouse Electric Corporation. Combustion chamber clustering structure. 3,657,883, 4-25-72, Cl. 60-39.37.
De Corso, Serafino M.; and Jersey, Chester A., to Westinghouse Electric Corporation. Fuel spray ignition atomizer nozzle. 3,668,869, 6-13-72, Cl. 60-39.74r.
De Corso, Serafino M., to Westinghouse Electric Corporation. Non-consumable electrode vacuum arc furnaces for steel, zirconium, titanium and other metals and processes for working said metals. 3,680,163, 8-1-72, Cl. 13-9.000.
De Corso, Serafino M.; and Wallace, James M., to Westinghouse Electric Corporation. Arc heater apparatus employing fluid-cooled electrodes having permanent magnets to drive the arc therefrom. 3,689,740, 9-5-72, Cl. 219-383.000.
De Corso, Serafino M.; and Carlson, Carl W., to Westinghouse Electric Corporation. Double wall combustion chamber. 3,702,058, 11-7-72, Cl. 60-39.650.
De Cosmo, Anthony; Powell, Kenneth R.; and Spiegel, Si I., to American Technical Industries, Inc. Artificial tree and method of assembly. 3,634,180, 1-11-72, Cl. 161-24.
De Cou, Anthony B. Attitude sensor, and system for controlling attitude of an object. 3,658,427, 4-25-72, Cl. 356-152.
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De Cremoux, Jacques, to Fives Lille-Cail. Sugar crystallizing method and apparatus. 3,642,534, 2-15-72, Cl. 127-15.
De Crepy, Edourad, to Societe Anonyme Francaise des Appareils Automatiques Taximetres-Taxiphones S.A.F.A.A. Automatic sheet storage apparatus. 3,683,943, 8-15-72, Cl. 133-1.00r.
De Cuir, George L., to Cities Service Company. Fractionation of silica aerosols. 3,645,684, 2-29-72, Cl. 23-182.
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De Fabritis, Raymond P.; Fefferman, Gerald Burt; Gesner, Bruce David; and Radner, Raymond John, to Bell Telephone Laboratories, Incorporated. Magnetic bubble device and method of manufacture. 3,699,552, 10-17-72, Cl. 340-174.0tf.
De Falco, Frank A.; and Bobo, Stephen N., to Raytheon Company. Shielded optical radiation detecting device. 3,666,949, 5-30-72, Cl. 250-83.30h.
De Fano, Dominic J.; and Kallman, Robert I., to De Fano Kallman Design, Inc. Lint filter. 3,696,033, 10-3-72, Cl. 210-460.000.
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De Fazio, Dominick J. Closure fastener. 3,669,482, 6-13-72, Cl. 292-80.000.
De Feo, Angelo, to Curtiss-Wright Corporation. Transpiration cooled turbine rotor blade. 3,656,863, 4-18-72, Cl. 416-97.000.
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De Filippis, Tullio: *See—*
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De Gain, William J., to Koppy Corporation, mesne. Stretch method for making a tubular product. 3,699,624, 10-24-72, Cl. 29-155.00c.
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De Geeter, Pieter J., to Shell Oil Company. Method and apparatus for burying pipeline. 3,659,425, 5-2-72, Cl. 61-72.4.
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de Gelder, Jacob; Baginski, Albert R.; and Miller, Anthony D., to Mattel, Inc. Reversible surface tray assembly for a toy top. 3,674,271, 7-4-72, Cl. 273-115.000.
de Gelder, Jacob; and Phillips, Gary E., to Mattel, Inc. Doll display stage with movable doll support. 3,675,362, 7-11-72, Cl. 46-13.000.
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De Ghetto, Anslem, to Getty Machine and Mold, Inc. Tire testing machine. 3,662,597, 5-16-72, Cl. 73-146.
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de Gouville, Jean-Bernard, to Etablissements Sourdillon, Matricage et Robinetterie de Precision. Thermostatic control means for vessels subjected to a thermal action. 3,632,040, 1-4-72, Cl. 236-20.
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De Graff, Peter H., to National Cash Register Company, The. Compact print head assembly with antirebounding means. 3,698,528, 10-17-72, Cl. 197-1.000.
De Graw, William E., to General Foods Corporation. Fulcrum valve dispensing container. 3,645,423, 2-29-72, Cl. 222-207.
De Groot, Gerald H., to Eastman Kodak Company. Exposure control apparatus. 3,651,749, 3-28-72, Cl. 95-64.
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De Groot, John E., to Benfur Engineering Company. Blade-retention system for a blasting machine. 3,654,736, 4-11-72, Cl. 51-9.
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De Haan, James R., to Cryogenic Engineering Company. Method and apparatus for cooling a cryogenic storage container. 3,705,498, 12-12-72, Cl. 62-54.000.
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de Haas, Hendrik Antoon Lorentz, to Berg & Burg N.V. Apparatus for preparing and dispensing a mixture of at least two liquids. 3,653,640, 4-4-72, Cl. 259-4.
De Haeck, Robert Jean, to LaDoudure Electrique Autogene, Procedes Arcos. Apparatus for backing workpieces for welding. 3,662,144, 5-9-72, Cl. 219-73.
De Haes, Louis Maria, to Agfa-Gevaert. Method of producing planographic printing plates. 3,676,125, 7-11-72, Cl. 96-33.000.
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De Hart, Damon. Applicating devices. 3,635,378, 1-18-72, Cl. 222-333.
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De Heus, Aart Arnoldus, to N.V. 'COQ'. Metal clad switch-gear for high voltage comprising cable terminal boxes. 3,665,257, 5-23-72, Cl. 317-103.
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De Hoff, Edward J.; and Schaefer, Ernest D., to General Motors Corporation. Disc brake caliper with integral parking brake. 3,688,875, 9-5-72, Cl. 188-71.900.
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De Jaeger, Norbert Maurice. Process for the manufacture of particle boards utilizing a dry organic binder. 3,673,020, 6-27-72, Cl. 156-62.200.
De Jager, Evert; and Homan, Jan Daniel Herman, to Organon Inc. Adsorption complexes of peptides having acrenocorticotropic hormone activity. 3,678,027, 7-18-72, Cl. 260-112.500.
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De Jong & De Vlieger Machinehandel N.V.: *See*—
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De Jong, Eduard B. M., to Technicon Instruments Corporation. Apparatus for pumping with viscosity control. 3,698,870, 10-17-72, Cl. 23-253.00r.
De Jongh, Hendrik Paul, to Organon Inc. 7-Alkyl-steroids. 3,673,225, 6-27-72, Cl. 260-397.500.
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De Keller, David Guy. Board game apparatus. 3,693,977, 9-26-72, Cl. 273-134.00e.
De Kinkelder, Petrus Johannes Alloysius. Automatic spray fluid control device. 3,707,305, 12-26-72, Cl. 239-62.000.
De Klerk, John, to Westinghouse Electric Corporation. Broadband, high frequency, thin film piezoelectric transducers. 3,689,784, 9-5-72, Cl. 310-9.8.
de Kock, Arie Jan Rudolf: *See*—
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De Koning, Hendrik, to Stamicarbon N.V. Process and apparatus for separating liquids. 3,686,077, 8-22-72, Cl. 203-40.000.
De Koning, Jan, to N.V. Ingenieursbureau voor Systemen en Octrooien "Spanstaal". Method of loading the hold of a vessel with dredging spoil. 3,631,997, 1-4-72, Cl. 214-152.
De Koning, Jan; and van der Veen, Romke. Method and apparatus for excluding silt from a dredging operation. 3,645,018, 2-29-72, Cl. 37-58.
De Koning, Jan; and Wolters, Tjako Aaldrik, to N.V. Ingenieursbureau voor Systemen en Octrooien "Spanstaal". Suction dredger having plural pumps and plural articulated pipe sections. 3,681,862, 8-8-72, Cl. 37-58.000.
De Kruif, Jan H.: *See*—
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De La Mare, Harold E.; and Shaw, Alfred W., to Shell Oil Company. Block copolymers having reduced solvent sensitivity. 3,670,054, 6-13-72, Cl. 260-880.00b.
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De Laet, Jules Maria: *See—*
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de Lanauze, Michel Sere: *See—*
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De Lancey, Warren H., to Pioneer Products Company, mesne. Centrifugal clutch. 3,693,771, 9-26-72, Cl. 192-105.0cd.

De Land, Charles L.: *See—*
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De Lang, Hendrik, to U.S. Philips Corporation. Apparatus for determining the relative movement of an object with the use of an optical grating rigidly secured to the object. 3,648,055, 3-7-72, Cl. 250-231.

De Lang, Hendrik, to U.S. Philips Corporation. Optical device for aligning an object located at an arbitrary distance from the device. 3,659,948, 5-2-72, Cl. 356-110.

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De Lange, Owen Edward, to Bell Telephone Laboratories, Incorporated. Frequency-division multiplex communication system. 3,676,684, 7-11-72, Cl. 250-199.000.

de Lange, Willem; Duyfjes, Werner; and Maas, Willem, to U.S. Philips Corporation. Single-phase pesticidal preparations. 3,679,797, 7-25-72, Cl. 424-211.000.

De Langis, Philip A. Apparatus for electrotherapy of the pubococcygeus. 3,640,284, 2-8-72, Cl. 128-422.

De Langis, Philip A. Ground detector and guard circuit. 3,659,152, 4-25-72, Cl. 317-18.

De Lano, Don L.: *See—*
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De Lano, Don L., to Microdot Inc. Contact element. 3,643,211, 2-15-72, Cl. 339-217.

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De Larrain, Raymundo. Method and apparatus for making a reproduction. 3,642,342, 2-15-72, Cl. 350-4.

De Laurentis, Peter; and Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Thermal copying method and products. 3,695,912, 10-3-72, Cl. 117-36.200.

De Laval Company Limited: *See—*
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De Laval Separator Company, The: *See—*
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De Laval Turbine California, Inc.: *See—*
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Rice, Ivan G., 3,703,807.
Thoma, Frederic A., 3,685,368.

de Learie, Frederic C., to United States of America, Air Force. Drum-display synchronizer. 3,700,800, 10-24-72, Cl. 178-6.6dd.

De Leo, Dennis M.: *See—*
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De Leo, Richard V.; and Hagen, Floyd W., to Rosemount Engineering Company. Pressure sensor for determining fluid velocities. 3,646,811, 3-7-72, Cl. 73-182.

De Leon, Luis F. Illuminating apparatus and ballast circuit. 3,684,921, 8-15-72, Cl. 315-276.000.

De Lisio, Michael P.; and Clement, Robert L., to Arco Industries Corporation. Gas cleaning system. 3,695,004, 10-3-72, Cl. 55-225.000.

De Lizasoain, Gabriel V., to Tecnico, Inc. Reducing and retarding volume and velocity of a liquid free-flowing in one direction. 3,667,234, 6-6-72, Cl. 61-1.

De Loach, Herman Holmes, to Bell Telephone Laboratories, Incorporated. Microwave stripline phase adjuster. 3,656,179, 4-11-72, Cl. 333-31.

de Long, Charles F.; and Shepherd, Thomas H., to National Patent Development Corporation. Produce coating. 3,669,691, 6-13-72, Cl. 99-168.000.

De Long, Charles, Jr.; and Newell, Stephen D., to Alco Standard Corporation. Tower irrigator. 3,647,139, 3-7-72, Cl. 239-177.

De Long, Donald C.; and Paget, Charles J., Jr., to Lilly, Eli, and Company. Chalcogen containing heterocyclics as an in vitro antiviral agents. 3,639,612, 2-1-72, Cl. 424-276.

De Long, William T.; and Corcoran, Paul T., to Teledyne, Inc. Stress relieved welded steel composite. 3,667,924, 6-6-72, Cl. 209-196.1.

De Lorenzo, Richard G.; and Luff, Donald G., to Container Corporation of America. Hooded carton with reclosure lock. 3,680,767, 8-1-72, Cl. 229-51.0tc.

De Luca, Carlo Bruno: *See—*
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De Luca, Carlo Bruno; and Mallanik, Allan, to Burndy Corporation. Safety terminator with testing and pulling means. 3,656,057, 4-11-72, Cl. 324-133.

De Luca, Hector F.; and Sunde, Milton L., to Wisconsin Alumni Research Foundation. Method of treating leg weakness in fowl with 25-hydroxycholecalciferol. 3,639,596, 2-1-72, Cl. 424-236.

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De Luca, Hector F.; Schnoes, Heinrich K.; and Holick, Michael F., to Wisconsin Alumni Research Foundation. 1,25-Dihydroxy cholecalciferol. 3,697,559, 10-10-72, Cl. 260-397.200.

De Luca, Hector F.; and Suda, Tatsuo, to Wisconsin Alumni Research Foundation. Photochemical method for preparing 25-hydroxytachysterol. 3,702,810, 11-14-72, Cl. 204-158.00r.

De Luca, Paul V., to Porta Systems Corporation. Cutover transition switching apparatus and method for telephone office equipment. 3,700,824, 10-24-72, Cl. 179-98.000.

De Lucia, Victor E., to Torr Laboratories, Inc. Vacuum relay. 3,697,907, 10-10-72, Cl. 335-201.

De Lucia, Victor E., to Torr Laboratories, Inc. High voltage miniaturized relay. 3,699,486, 10-17-72, Cl. 335-131.000.

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De Lyon, Armand Rene: *See—*
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De Maio, Dennis A., to Halcon International, Inc. Ethylene oxide catalyst. 3,664,970, 5-23-72, Cl. 252-454.

De Marco, Franco, to Societa Italiana Telecomunicazioni Siemens S.p.A. Line selector giving access to PBX multiples. 3,634,629, 1-11-72, Cl. 179-18.

De Marco, John Gregory: *See—*
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De Marco, Robert Frank, to Intercole Automation, Inc. Material mixer. 3,695,587, 10-3-72, Cl. 259-41.000.

De Maria, Anthony J.; and Glenn, William H., to United Aircraft Corporation. Ultrashort optical pulse generation utilizing laser-pumped lasers. 3,636,474, 1-18-72, Cl. 331-94.5.

De Matte, Michael L., to Westvaco Corporation. Process of making prelubricated paper. 3,702,801, 11-14-72, Cl. 162-173.000.

De Mattia, Victor A., Jr.; and Sansevero, Vincent J., Jr., to United Aircraft Corporation. Pressurization system. 3,667,216, 6-6-72, Cl. 60-37.000.

De Mauriac, Richard A., to Eastman Kodak Company. Photothermographic elements containing bis-beta-naphthols. 3,672,904, 6-27-72, Cl. 96-114.100.

De Mauriac, Richard A.; and Hiller, Gary Lynn, to Eastman Kodak Company. Photothermic composition containing onium halide sensitizer and the use thereof. 3,679,422, 7-25-72, Cl. 96-107.000.

De Ment, Jack. Optical modulation by fluidic optics utilizing chromatic aberration. 3,641,354, 2-8-72, Cl. 250-216.

De Ment, Jack. Cylindrical array of exploding conductors embedded in a solid dielectric for pumping a laser. 3,646,471, 2-29-72, Cl. 331-94.5.

De Mets, Albert. Press, particularly for forming fibre plates. 3,640,660, 2-8-72, Cl. 18-16.

De Meulenaere, Robert O. Settable automatic call repertory device with control of dial, pushbutton and data memories. 3,681,535, 8-1-72, Cl. 179-90.00b.

De Meux, Patrick De Laage, to Lignes Telegraphiques et Telephoniques. Phase-coherent frequency-shift modulation system for oscillation multivibrator. 3,670,266, 6-13-72, Cl. 332-14.000.

De Meyer, Alfons Jozef: *See—*
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de Montebello, Roger L. Reinforced lenticular sheet with plural apertured sheets. 3,706,486, 12-19-72, Cl. 350-167.000.

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De Mott, Donald N.; and Stanton, Francis W., Jr., to Procter & Gamble Company, The. Synthetic latices and method of preparing same. 3,634,294, 1-11-72, Cl. 260-29.6.
De Munnik, Nicholas Marie. Heat exchanger. 3,650,322, 3-21-72, Cl. 165-143.
De Musquiz Reumert, Jorgen; Gylling-Pedersen, Ole; and Casals, Jose Bou, to Aktieselskabet Rosco. Iron dextran complex and process for making same. 3,666,749, 5-30-72, Cl. 260-209.
De Napoli, Robert A., to Northern Electric Company. Steam or dry hair curler heating apparatus. 3,666,915, 5-30-72, Cl. 219-22.
De Neef, John G.: *See—*
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De Neve, Gerard Marie Jules, to U.S. Philips Corporation. Discharge lamp provided with a substantially straight oblong discharge tube. 3,706,901, 12-19-72, Cl. 313-285.000.
De Nicolay, Giuliano; and Venturini, Piero, to Societa Italiana Telecomunicazioni Siemens S.p.A. Phase-lock-stabilized system for generating carrier frequencies usable in multiplex communication. 3,670,255, 6-13-72, Cl. 331-25.000.
De Nobel, Dirk; and De Waal, Jan A. G., to U.S. Philips Corporation. Method of applying contacts to a semiconductor body. 3,698,941, 10-17-72, Cl. 117-212.000.
De Nora, Vittorio; and Loftfield, Richard E., to Oronzio de Nora Impianti Elettrochimici S.p.A. Cell cover with weakened areas to relieve explosions. 3,672,973, 6-27-72, Cl. 204-99.000.
De Noyer, Donald B., to Allis-Chalmers Manufacturing Company. Air loaded papermaking machine headbox with stock overflow channels and vertically aligned vanes therein. 3,661,704, 5-9-72, Cl. 162-337.
De Noyer, Donald B., to Allis-Chalmers Manufacturing Company. Papermaking machine headbox having vertically aligned vanes therein. 3,661,705, 5-9-72, Cl. 162-343.000.
De Noyer, Donald B., to Allis-Chalmers Manufacturing Company. Air loaded headbox for a papermaking machine having vertically aligned vanes therein. 3,661,706, 5-9-72, Cl. 162-343.
De Nure, Peter A. Vehicle orienting device and method. 3,657,821, 4-25-72, Cl. 33-46.0as.
De Palma, Bruce E., to Polaroid Corporation. Image formation in stable polarizing media. 3,644,117, 2-22-72, Cl. 96-35.
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De Palma, Ted V.; and Carleton, Robert S., to Universal Oil Products Company. Catalytic converter for exhaust gases. 3,644,098, 2-22-72, Cl. 23-288.
De Palma, Ted V.; and Perga, Martin W., to Universal Oil Products Company. Catalytic converter-muffler. 3,649,213, 3-14-72, Cl. 23-288.
De Palma, Ted V., to Universal Oil Products Company. Vapor control system for an engine to eliminate smog. 3,665,906, 5-30-72, Cl. 123-136.
De Palma, Vito A., to Cornell Aeronautical Laboratory, Inc. Process of coating metals with mercury or mercury amalgams. 3,672,963, 6-27-72, Cl. 204-14.00n.
De Paolis, Potito U., to Hunt-Wesson Foods, Inc. Process for the manufacture of soy protein isolates, soy protein concentrates and soy byproducts. 3,682,646, 8-8-72, Cl. 99-17.000.
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De Pass, Ernest I.: *See—*
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De Paul, Robert Allen, to International Nickel Company, Inc., The. Low alloy structural steel. 3,655,366, 4-11-72, Cl. 75-123.
De Pauw, Alfons Jozef: *See—*
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De Pauw, Alfons Jozef; and Carpentier, Jan Albert, to Gevaert-Agfa N.V. Method of incorporating photographic ingredients into a photographic colloid. 3,649,287, 3-14-72, Cl. 96-114.6.
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de Varda, Giuseppe; and de Pava, Alberto Vajina, 3,647,673.
De Petris, Peter S. Solid state controlled automatic choke. 3,699,937, 10-24-72, Cl. 123-119.00f.
De Pew, Thomas N. Mobile tackling dummy. 3,659,848, 5-2-72, Cl. 273-55.
De Pierre, Robert J., to Kalamazoo Manufacturing Company. Dolly for handling large wheels as for aircraft. 3,685,125, 8-22-72, Cl. 29-252.000.
De Pierre, Vincent; Male, Alan T.; and Saul, George, to United States of America, Air Force, mesne. Compression test. 3,693,419, 9-26-72, Cl. 73-89.000.
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De Pree, David O.; and Weyland, Herman H., to United States of America, Interior. Regeneration of cation exchange resins and recovery of salts. 3,663,163, 5-16-72, Cl. 23-63.000.
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De Putter, Warner Jan, to Industriele Onderneming Wavin N.V. Insulated tube. 3,665,968, 5-30-72, Cl. 138-141.
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De Ronde, Frans Christiaan, to U.S. Philips Corporation. Directional coupler comprising different transmission lines on opposite sides of dielectric board. 3,646,479, 2-29-72, Cl. 333-10.
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De Rosset, Armand J.; Wackher, Richard C.; and Massie, Stephen N., to Universal Oil Products Company. Solvent extraction process. 3,689,405, 9-5-72, Cl. 208-326.000.
De Rosset, Armand J.; and Neuzil, Richard W., to Universal Oil Products Company. Fluid-solid contacting apparatus. 3,706,812, 12-19-72, Cl. 260-674.0sa.
De Rossi, Attilio: *See—*
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De Sa E Silva, Claudio; and Cheever, Daniel R., to Summit Engineering Corporation. Power drive circuit for inductive loads. 3,699,413, 10-17-72, Cl. 318-138.000.
De Saint-Chamant, Henri: *See—*
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de Sandre, Giovanni; and Garziera, Gastone, to Olivetti, Ing., C., & C., S.p.A. Electronic computer keyboard control. 3,641,329, 2-8-72, Cl. 235-156.
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de Sandre, Giovanni, to Olivetti, Ing., C., & C., S.p.A. Electronics computer. 3,660,825, 5-2-72, Cl. 340-172.500.
De Santis, Alfred J.; Beers, Le Roy W.; White, James A.; and Moysey, John A., to Burroughs Corporation. Information processing system having free field storage for nested processes. 3,680,058, 7-25-72, Cl. 340-172.500.
De Santis, Ermenegildo, to Industrie Pirelli S.p.A., mesne. Annular structures reinforced with textile elements, in particular, rubbing elements for carding machines. 3,654,813, 4-11-72, Cl. 74-232.
De Santis, G. William, to Essex Chemical Corporation. Polyurethane sealant-primer system isocyanate-reactive surface primer composition for polyurethane sealants. 3,707,521, 12-26-72, Cl. 260-37.00n.
De Savage, Bernard F.: *See—*
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De Schamphelaere, Lucien Amede, to Agfa-Gevaert, Mortsel-Belgium. Time shared digital and analog process control. 3,705,978, 12-12-72, Cl. 235-151.100.
De Shazer, Larry Grant: *See—*
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De Simone, David N., to United States of America, Navy. Protective helmet. 3,673,609, 7-4-72, Cl. 2-3.00r.
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De Sipio, Richard G.: *See—*
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De Somer, Pierre; and Claes, Paul, to Recherche et Industrie Therapeutiques, R.I.T. Antiinfectious compositions and process for their preparation. 3,679,795, 7-25-72, Cl. 424-180.000.
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De Van, William T.; and Van Dyck, Ken, to Auberge Corporation. Beverage dispensing system. 3,696,969, 10-10-72, Cl. 222-105.000.
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de Varda, Giuseppe; and de Pava, Alberto Vajina, 70% to Montecatini Edison S.p.A. and 30% to Giuseppe, de Varda. Stepped bottom for multicell furnace for production of aluminum by electrolysis. 3,647,673, 3-7-72, Cl. 204-244.
De Varda, Giuseppe, 70% to Montecatini Edison S.p.A. Cryolitic linings in furnaces for aluminum smelting. 3,666,653, 5-30-72, Cl. 204-243.
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De Vault, Albert N., to Phillips Petroleum Company. Hydrogenation process. 3,696,088, 10-3-72, Cl. 260-85.100.
De Vaux, Lloyd H.; and Kurtin, Stephen L., to Hughes Aircraft Company. Ion implanted bolometer. 3,693,011, 9-19-72, Cl. 250-83.300.
De Veau, George Frank, Jr.; Nutt, Wendell Glenn; and Webster, George Harry, to Bell Telephone Laboratories, Incorporated. Water alarm and fault-locating for air core plastic-insulated telephone cable. 3,662,367, 5-9-72, Cl. 340-235.
de Villeneuve, Yolande-Paule Marie-Josephe: *See—*
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De Voe, John M., to United States Tobacco Company. Continuous twister pipe cleaner machine. 3,678,674, 7-25-72, Cl. 57-77.420.
De Vol, Forrest E.; Eberhardt, George J.; and Zurbuchen, Louis E., to National Cash Register Company, The. Multi-station high-speed printing mechanism. 3,688,691, 9-5-72, Cl. 101-93.00c.
De Vore, Dean L.: *See—*
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De Vost, Valmore F.; and Simkins, John W., to United States of America, Navy. Pressure gage for recording peak pressures. 3,706,229, 12-19-72, Cl. 73-396.000.
De Vries, Adrian J., to Zenith Radio Corporation. Multi-stage solid-state signal-transmission system. 3,659,231, 4-25-72, Cl. 333-72.
De Vries, Adrian J., to Zenith Radio Corporation. Acoustic-wave transmitting device. 3,662,293, 5-9-72, Cl. 333-30.
De Vries, Adrian J., to Zenith Radio Corporation. Surface wave devices. 3,678,364, 7-18-72, Cl. 329-117.000.
De Vries, Adrian J., to Zenith Radio Corporation. Shear mode piezoelectric filter. 3,694,676, 9-26-72, Cl. 310-9.500.
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De Vries, Hendrik, Jr., to N.L. Application S.A. Method of manufacturing a burner and a burner thus manufactured. 3,656,879, 4-18-72, Cl. 431-349.
De Vries, Jan Roelof, to Industriele Onderneming Wavin N.V. Method for manufacturing a block bag. 3,688,650, 9-5-72, Cl. 93-35.00r.
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De Vries, Robert C.; and Fleischer, James F., to General Electric Company. Thermistors. 3,703,478, 11-21-72, Cl. 252-521.000.
De Vries, Robert W., to Wolverine Industries, Inc. Adjustable Christmas tree stand. 3,661,349, 5-9-72, Cl. 248-46.
De Vrieze, Jerry D.: *See—*
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De Vroome, Harry Clarence, to Ayrodev Processes Limited. Cleaning compositions. 3,673,097, 6-27-72, Cl. 252-153.000.
De Waal, Jan A. G.: *See—*
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De Wald, Raymond C., to Firestone Tire & Rubber Company, The. Process for grafting polymeric vinyl and vinylidene chloride side-chains to polyols and fluid dispersion compositions. 3,655,553, 4-11-72, Cl. 252-1.
De Weese, Duane G.; and Hanck, Ronald C., to SCM Corporation. Edible comestibles and process for making same. 3,676,148, 7-11-72, Cl. 99-1.000.
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De Windt, Edward Mandell, to Eaton Corporation. Automatic restraint system arming control. 3,672,699, 6-27-72, Cl. 280-150.0ab.
De Winter, Jan Gerrit, to Nicolon N.V. Bottom and bank facing mattress. 3,699,686, 10-24-72, Cl. 61-38.000.
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De Witt, David, to International Business Machines Corporation. Transistor comprising layers of silicon dioxide and silicon nitride. 3,707,656, 12-26-72, Cl. 317-235.000.
De Witt, David A.; and De Witt, Ralph W. Conveyor loading and counting system. 3,687,267, 8-29-72, Cl. 198-40.000.
De Witt, Elmer J.; and Sehm, Eugene J., to Goodrich, B. F., Company, The. Composite polymeric materials. 3,632,679, 1-4-72, Cl. 260-878.
De Witt, Erik J.: *See—*
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De Witt, George A., to Cities Service Company. Apparatus for deturbulating turbulent solutions. 3,707,356, 12-26-72, Cl. 23-285.000.
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De Witt, Walter Groesbeck, III; and Hurwitz, Marvin Joseph. Terephthalic acid /1,2-propylene glycol polyester modifiers for polyvinyl chloride compositions. 3,686,361, 8-22-72, Cl. 260-873.000.
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De Wittie, H W.; Kirchstein, John A.; and Atit, Kishore M., to International Salt Company. Production of high purity salt. 3,647,396, 3-7-72, Cl. 23-299.
De Wolf, Frank T., to General Electric Company. Commutating flux fidelity improvement winding. 3,648,089, 3-7-72, Cl. 310-186.
De Woody, Charles M., to Ace Glass Incorporated. Flexible pressure-type joint for rigid tubing. 3,695,642, 10-3-72, Cl. 285-133.00r.
De Woskin, Irvin S.; and Jenkins, Murgatroyd H., to Beltx Corporation. Method of and apparatus for forming packages. 3,657,857, 4-25-72, Cl. 53-30.
De Young, Edwin L., to Universal Oil Products Company. Dimerization of diolefinic compounds. 3,655,791, 4-11-72, Cl. 260-666.
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Deabon, James S. Method and apparatus for removing entrained dust particles from a gaseous stream. 3,675,397, 7-11-72, Cl. 55-227.000.
Deacon, Lawrence A. Method and apparatus for bending tubing. 3,691,815, 9-19-72, Cl. 72-458.000.
Deak, James N., to Bell Telephone Laboratories, Incorporated. Adjustable spring suspension mount having constant static deflection. 3,650,498, 3-21-72, Cl. 248-18.
Deakin, Alfred; deceased (by Deakin, Ida Mae; administratrix). Cap for oxygen and similar containers. 3,696,964, 10-10-72, Cl. 220-85.
Deakin, Gordon Asquith; Eastwood, Alan; and Vinnucimbe, Gordon. Transfer mechanism. 3,690,204, 9-12-72, Cl. 83-112.000.
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Deal, John V.; and Nall, Clive. Modular wall and ceiling system. 3,683,100, 8-8-72, Cl. 174-48.000.

Deal, Joseph D., Jr.; and Michie, James C., III, to Newport News Shipbuilding and Dry Dock Company. Method of maritime delivery of crude oil through ice-congested regions. 3,674,042, 7-4-72, Cl. 137-1.000.

Deal, Robert S.; and Evans, Joseph H., to Raychem Corporation. Pyrotechnic heating device. 3,679,189, 7-25-72, Cl. 263-50.000.

Deal, Samuel Broughton; and Bartch, Donald Walter, to RCA Corporation. Electron tube having tamper-detectable label attached thereto. 3,680,236, 8-1-72, Cl. 40-2.200.

Deal, Samuel Broughton; and Bartch, Donald Walter, to RCA Corporation. Method for preparing the viewing-screen structure of a cathode-ray tube. 3,703,401, 11-21-72, Cl. 117-33.5cp.

Dean, Carl J., to Wright, Barry, Corporation. Reel sealing and storage apparatus. 3,696,935, 10-10-72, Cl. 211-13.000.

Dean, Frank J., Jr.; and Thompson, Neil J., to Tempmaster Corporation. Air vane and fire damper for integrated ceiling systems and the like. 3,687,055, 8-29-72, Cl. 98-40.00d.

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Dean, George A., to Libbey-Owens-Ford Company. Sheet handling apparatus. 3,682,329, 8-8-72, Cl. 214-7.000.

Dean, George A., to Dean Research Corporation. Transporting system. 3,698,577, 10-17-72, Cl. 214-38.0ba.

Dean Hubert W.; and Hovey, Almon G., to Hodgson, Peter. Glowing bouncing putty. 3,634,280, 1-11-72, Cl. 252-301.3.

Dean, Hubert William; and Hovey, Almon G. Glowing bouncing putty. 3,661,790, 5-9-72, Cl. 252-301.3.

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Brooks, Warren B.; Dean, James T.; Manning, William F.; Rupp, Lewis A.; and Talley, William A., Jr., 3,682,242.

Dean, John W., to General Electric Company. Block copolymers of silicones with vinyl pyridine. 3,673,272, 6-27-72, Cl. 260-827.000.

Dean, Johnny C.; and Colling, Philip M., to Petro-Tex Chemical Corporation. Oxidative dehydrogenation of organic compounds. 3,686,347, 8-22-72, Cl. 260-680.00e.

Dean, Karl C.: *See*—
Staker, Walter L.; Dean, Karl C.; and Chindgren, Carl J., 3,660,022.

Dean, Malcolm Leonard Stephen. Electrically heated dispenser for granular substances. 3,666,914, 5-30-72, Cl. 219-214.

Dean, Michael R., to Baker Oil Tools, Inc. Retrievable well packer. 3,667,543, 6-6-72, Cl. 166-125.000.

Dean, Paul R., II, to Goodyear Tire & Rubber Company, The. Stabilization of relatively saturated polymers with phenolic stabilizers and sulfur-containing compounds. 3,652,495, 3-28-72, Cl. 260-45.85.

Dean, Peter Mervyn: *See*—
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Dean, Ralph, Jr., to General Motors Corporation. Vehicle accelerator pedal. 3,641,837, 2-15-72, Cl. 74-513.

Dean, Raymond Ernest: *See*—
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Dean, Raymond Harkless, to RCA Corporation. Semiconductor device. 3,706,014, 12-12-72, Cl. 317-234.00r.

Dean Research Corporation: *See*—
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Dean, Robert B.: *See*—
Hoyt, Howard Eugene; and Dean, Robert B., 3,644,269.

Dean, Robert C., Jr.: *See*—
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Dean, Sheldon W., to Olin Corporation. Coated substrate or article having a low friction surface resistant to dewetting at elevated temperatures and process of forming. 3,681,019, 8-1-72, Cl. 29-195.000.

Dean, Sheldon W., to Olin Corporation. Articles having a low friction surface and process of making same. 3,698,932, 10-17-72, Cl. 29-195.00r.

Dean, Sheldon W., Jr.: *See*—
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Dean, Thomas Stanley. Recovering alkali metal salts from cement kiln gases by the steps of condensing leaching and crystallizing. 3,647,395, 3-7-72, Cl. 23-299.

Dean, Warren E.; and Dorsett, Charles M., to PPG Industries, Inc. Mercury removal. 3,674,428, 7-4-72, Cl. 23-134.000.

Dean, William H. Truck bed cover. 3,704,039, 11-28-72, Cl. 296-137.00b.

Deane, Chester A. Closure construction. 3,693,695, 9-26-72, Cl. 160-243.000.

Deane, Clifford T., to Vortex Air Corporation. Air pollution control device. 3,693,326, 9-26-72, Cl. 55-230.000.

Deans, David Robert, to Imperial Chemical Industries Limited. Sample injection in gas chromatography. 3,668,834, 6-13-72, Cl. 55-67.000.

Deans, Howard; and Sager, Thomas B., to Ultrasonic Systems, Inc., mesne. Method for remotely sealing plastics using ultrasonic energy. 3,669,780, 6-13-72, Cl. 156-73.000.

Dear, Robert E. A.: *See*—
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Dear, Robert E. A.; and Gilbert, Everett E., to Allied Chemical Corporation. Bis (trifluoromethylthio) fluorobutanes. 3,646,221, 2-29-72, Cl. 260-609.

Dear, Terrence A., to PPG Industries, Inc. Apparatus for controlling glass fractures. 3,694,181, 9-26-72, Cl. 65-158.000.

Dear, Terrence A., to PPG Industries, Inc. Method of severing glass. 3,695,497, 10-3-72, Cl. 225-2.000.

Dear, Terrence A., to PPG Industries, Inc. Non-contact thermal cutting. 3,695,498, 10-3-72, Cl. 225-1.000.

Dear, William Noel; Ramsay, James Ian; and Thomson, Alexander, to Albright & Wilson Limited. Manufacture of sodium or potassium tripolyphosphate. 3,684,436, 8-15-72, Cl. 23-106.000.

Dearborn Glass Company: *See*—
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Deardorff, Donald L.: *See*—
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Deardurff, Lawrence R., to Owens-Corning Fiberglas Corporation. Tightly bound bundle of filaments and method of producing same. 3,644,866, 2-22-72, Cl. 338-214.

Dearman, Timothy C. Pipe clamping apparatus. 3,653,574, 4-4-72, Cl. 228-49.

Dearry, Paul A.: *See*—
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Deasy, Raymond E., to Illinois Tool Works Inc. Container package. 3,700,275, 10-24-72, Cl. 294-87.200.

Deaton, David W., to Ahldea Corporation. Liquid flow regulator and monitor for corporeal infusion systems and method of using the same. 3,659,629, 5-2-72, Cl. 137-551.

Deaton, David W., to Ahldea Corporation. Sterile liquid entraining system. 3,682,168, 8-8-72, Cl. 128-194.000.

Deaton, Homer W.; Gould, Robert R., Jr.; and Smith, Roy R., to General Motors Corporation. Ceramic-top cooking assembly fracture detector. 3,636,309, 1-18-72, Cl. 219-452.

Deaton, Irving F., to CPC International Inc. Process for the production of a defatted starch conversion product. 3,695,933, 10-3-72, Cl. 127-32.000.

Deaton, James M., to Vendmart, Inc. Conveying rod for vending machines. 3,690,510, 9-12-72, Cl. 221-75.000.

Deaton, Thomas Michael, to Otis Engineering Corporation. Well flow controlling systems, methods and apparatus. 3,664,427, 5-23-72, Cl. 166-313.000.

Debaigt, Jean, to Compagnie Generale d'Entreprises Electriques. Synoptic control and signalling board. 3,636,558, 1-18-72, Cl. 340-381.

Debaigt, Jean, to Compagnie Generale d'Entreprises Electriques. Modular electrical connector assembly. 3,656,086, 4-11-72, Cl. 339-92.

Debarre, Francois; and Poiget, Gilbert, to Rhone-Poulenc S.A. Pyrroline derivatives. 3,632,605, 1-4-72, Cl. 260-326.5.

Debat, Jacques, to Institut de Recherches Chimiques et Biologiques Appliquees, I.R.C.E.B.A., mesne. Promotion of analgesic and sedative action with 5-bromoisatin. 3,659,011, 4-25-72, Cl. 424-274.

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Deboeur, Francois Fernand; and Plumhans, Paul Jean, to Uniroyal Aktiengesellschaft. Mold for vulcanizing pre-shaped pneumatic tires. 3,703,346, 11-21-72, Cl. 425-46.000.

Debonnet, Alfons, to Makropatent Trust reg., mesne. Device for producing nonwoven carpets. 3,657,052, 4-18-72, Cl. 156-435.

Debono, Manuel, to Lilly, Eli, and Company. Method for recovery of cephaloridine. 3,687,947, 8-29-72, Cl. 260-243.00c.

Deboo, Gordon J.: *See*—
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Deborde, Albert, to Ateliers Diderichs. Device for the recovery and removal of a defatted selvedge in a shuttleless loom. 3,670,779, 6-20-72, Cl. 139-304.000.

Debreczeni, Eugene J.; and Kushlefsky, Bernard G., to M & T Chemicals Inc. Preparation of diatannones. 3,699,138, 10-17-72, Cl. 260-429.700.

Debruyn, Frank E., Jr., to Polaroid Corporation. Permanent laminate photographic film. 3,681,072, 8-1-72, Cl. 96-29.000.

Debruyn, Frank E., Jr., to Polaroid Corporation. Permanent laminate photographic products and processes. 3,681,073, 8-1-72, Cl. 96-29.000.

deBruyn Kops, Paul F., Jr.; and Rivers, Victor J., to Pemko Manufacturing Co. Double door astragal. 3,653,155, 4-4-72, Cl. 49-313.
Debs, Victor, to Levolor Lorentzen, Inc. Venetian blind and installation. 3,703,920, 11-28-72, Cl. 160-107.000.
Debue, Marlene. Adjustable hair curler. 3,683,940, 8-15-72, Cl. 132-39.000.
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DeCardi, Pedro; Taylor, Carl S.; and Roberts, Geoffrey L., to McDonnell Douglas Corporation. Anti-hydroplaning device. 3,680,885, 8-1-72, Cl. 280-150.00r.
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Deck, Philip E., to Telex Computer Products, Inc. Pneumatic apparatus for incrementally advancing tape. 3,648,912, 3-14-72, Cl. 226-97.
Deckard, Charles E., to Wyle Laboratories. Flexible support structure for vibration testing. 3,691,822, 9-19-72, Cl. 73-71.600.
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Decker, Hanns; Hurtmanns, Heinz; and Stockmann, Helmut, to Klockner-Humboldt-Deutz Aktiengesellschaft. Lubricant feed means for gyratory crushers. 3,692,249, 9-19-72, Cl. 241-215.000.
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Decker, Jacob, to Cincinnati Milacron, Inc. Round gib for machine slide. 3,702,716, 11-14-72, Cl. 308-3.00a.
Decker, John J.; and Kerstetter, Donald R., to GTE Sylvania Incorporated. Doubled layer heater coating for electron discharge device. 3,691,421, 9-12-72, Cl. 313-345.000.
Decker, Martin; Stechl, Hanns-Helge; Palm, Christof; and Buerger, Gert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of aromatic nitriles. 3,637,797, 1-25-72, Cl. 260-465.
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DeCoster, Lloyd D. Bias voltage supply. 3,665,334, 5-23-72, Cl. 330-40.000.
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Deeter, Paul E. Mounting frame assembly for all terrain vehicle. 3,688,847, 9-5-72, Cl. 172-804.000.

Deex, Oliver de S.; and Fallwell, William F., Jr., to Monsanto Company. Terpolymer of an olefin, vinyl monomer and a partial ester of an unsaturated acid anhydride with an ethoxylated alkyl alcohol. 3,637,566, 1-25-72, Cl. 260-29.6.

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DeForest, William S.; Heap, Richard T.; Widmont, Joseph C.; and Zagorin, Harold, to North American Rockwell Corporation. Method for coating metals or insulating substrates having a vitreous binder. 3,666,639, 5-30-72, Cl. 204-38.00c.

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DeGarab, Giorgio Olah; and Corfiati, Domenico, to Montecatini Edison S.p.A. Apparatus for supporting electrodes, particularly suited for suspended electrodes used in multicell furnaces for the production of aluminum. 3,634,224, 1-11-72, Cl. 204-297.

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Degenkolbe, Joachim; and Musgen, Bruno, to Huttenwerk Oberhausen AG. Fabrication of steel structures by welding. 3,674,577, 7-4-72, Cl. 148-143.000.

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Degginger, Edward R., to Allied Chemical Corporation. Fire retarding process comprising converging separate solutions of polyvinyl alcohol and alkali metal borate. 3,676,169, 7-11-72, Cl. 117-3.000.

Degginger, Edward R., to Allied Chemical Corporation. Dust suppressing during mining process. 3,690,727, 9-12-72, Cl. 299-12.000.

Degnan, Joseph F.; and Ayotte, Robert A., to General Dynamics Corporation. Multi-layer printed circuit boards and methods of making same. 3,649,475, 3-14-72, Cl. 204-15.

Degnan, Joseph F., to General Dynamics Corporation. Method of making multilayer printed circuits. 3,654,097, 4-4-72, Cl. 204-15.

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Deguchi, Masahiro; and Hashirano, Masaru, to Matsushita Electric Industrial Co., Ltd. Automatic tape loading type magnetic recording and reproducing apparatus. 3,706,425, 12-19-72, Cl. 242-195.000.

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DeHart, John Randle. Apparatus for feeding letter envelopes or the like. 3,647,203, 3-7-72, Cl. 271-30.

DeHeere, Gerard Andries Scheltema; and Kingma, Rinze Veenenga, to N.V. Optische Industrie de Oude Delft. Device for compensating cylindrical distortion in panoramic aerial photographs. 3,653,307, 4-4-72, Cl. 95-12.5.

Dehlin, Leone S.; and Howard, Vesper J. Artificial breast replacement. 3,706,104, 12-19-72, Cl. 3-36.000.

Dehm, Henry C.; and Mellow, Dale F., to Hercules Incorporated. Process for preparation of molded propellant charges from smokeless powder and nonvolatile binders. 3,655,836, 4-11-72, Cl. 264-3.

Dehm, Henry C., to Hercules Incorporated. Coating composition having reactive surface isocyanate groups. 3,658,763, 4-25-72, Cl. 260-77.5.

Dehm, Henry C.; and Mellow, Dale F., to Hercules Incorporated. Method of preparing propellant charges from fibrous nitrocellulose. 3,676,533, 7-11-72, Cl. 264-3.00c.

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Dehnert, Johannes; and Bachmann, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Metalliferous dyes. 3,661,898, 5-9-72, Cl. 260-240.

Dehnert, Johannes, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for dyeing synthetic polyamide textiles with disazo dyestuffs. 3,672,816, 6-27-72, Cl. 8-41.00b.

Dehnert, Johannes, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Basic indazole azo dye substituted by a sulfonamide. 3,697,501, 10-10-72, Cl. 260-163.000.

Dehnhard, Willi. Chill casting machines. 3,670,803, 6-20-72, Cl. 164-267.000.

DeHoff, Ronald Lee, to Vanderbilt, R. T., Company, Inc. Liquid curing agent for epoxy resins comprising a mixture of an imidazold and an aniline-formaldehyde condensate. 3,697,462, 10-10-72, Cl. 260-21.000.

Deibel, Raymond A.; and Riester, William C., to Trico Products Corporation. Windshield wiper blade. 3,644,957, 2-29-72, Cl. 15-250.42.

Deibert, Harold Leroy. Umbrella and umbrella tree frost cover. 3,706,160, 12-19-72, Cl. 47-21.000.

Deibert, Max C., to Monsanto Research Corporation. Conductive carbon membrane electrode. 3,676,222, 7-11-72, Cl. 136-121.000.

Deich, Mikhail Efimovich; Filippov, Gennady Alexeevich; Sobolev, Sergei Petrovich; and Povarov, Oleg Alexeevich. Turboseparator for polyphase fluids and turbine incorporating said turboseparator. 3,652,182, 3-28-72, Cl. 415-168.

Deichen, Robert John. Optical reflector. 3,707,626, 12-26-72, Cl. 240-103.00r.

Deichert, William George; and Lemay, Richard Ronald, to American Cyanamid Company. Impact resistant compositions comprising methyl methacrylate, diallyl phthalate and an ethylene copolymer. 3,646,164, 2-29-72, Cl. 260-878.

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Deike, Robert F., to Cleaner Container Corporation. Convertible rail highway tractor. 3,633,514, 1-11-72, Cl. 105-26.

Deike, Robert F., 1/4 to Chamberlain, William H. and 1/4 to Chamberlain, Anna B. Pole or post mounting for ground anchor. 3,676,965, 7-18-72, Cl. 52-98.000.

Deike, Robert F., 1/4 to Chamberlain, William H. and 1/4 to Chamberlain, Anna B. Anchoring device. 3,680,274, 8-1-72, Cl. 52-157.000.

Deines, John. Independently operable dual drive wheel riding power mower. 3,702,051, 11-7-72, Cl. 56-11.300.

Deinet, Adolph J.; and Klein, David X., to Tenneco Chemicals, Inc. Process for the production of aromatic hydroxyaldehydes. 3,641,158, 2-8-72, Cl. 260-600.

Deinet, Adolph J., to Tenneco Chemicals, Inc. Method of controlling fungi with 2-acetoxy benzonitriles. 3,683,067, 8-8-72, Cl. 424-78.000.

Deinet, Adolph J., to Tenneco Chemicals, Inc. Methods of controlling fungi and insects with organotin nitriles. 3,683,089, 8-8-72, Cl. 424-288.000.

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Deisenroth, Robert J., to Excel Corporation. Method of bedding panels into frames. 3,655,854, 4-11-72, Cl. 264-134.

Deist, Robert P., to American Home Products Corporation. Process for the production of semi-synthetic penicillin intermediate. 3,669,978, 6-13-72, Cl. 260-301.000.

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Dekeyser, Lucien, to Bennes Marrel. Gas turbine with rotary heat exchangers. 3,667,220, 6-6-72, Cl. 60-39.51.

Dekeyser, Lucien, to Bennes Marrel. Gas turbine with variable blade distribution. 3,685,921, 8-22-72, Cl. 415-159.000.

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Dekking, Henri; and Maxey, Edwin M., to General Tire & Rubber Company, The. Method of encapsulating fillers with polymers. 3,661,620, 5-9-72, Cl. 117-62.2.

DeKlerk, John, to Westinghouse Electric Corporation. Method of forming thin insulating films particularly for piezoelectric transducer. 3,632,439, 1-4-72, Cl. 117-215.

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Del Rosso, Victor, to Hi-Speed Checkweigher Co., Inc. Apparatus for weight classifyting odd shaped articles. 3,687,362, 8-29-72, Cl. 235-98.00r.

Del Signore, Giovanni. Anti-collision apparatus for vehicles. 3,680,085, 7-25-72, Cl. 343-14.00.

Del Val, Sagrario Mochales: *See*—
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Del Vecchio, Joseph T.; Howell, John; and Bunin, Herbert A., to Instrument Systems Corporation. Quick disconnect slide structure. 3,650,578, 3-21-72, Cl. 308-3.8.

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Delaere, Albert Henri, to Davum. Flexible structural plate pipes and the like. 3,638,434, 2-1-72, Cl. 61-16.
Delafield, David J.; Edwards, Alan H.; and Owen, Keith, to Esso Research and Engineering Company. Gasoline compositions. 3,687,644, 8-29-72, Cl. 44-56.000.
Delafield, David James; Edwards, Alan H.; and Owen, Keith, to Esso Research and Engineering Company. Fuel oil and lubricating oil composition. 3,658,707, 4-25-72, Cl. 252-51.5.
Delafosse, Jacques; and Viaud, Jean-Luc, to Commissariat a l'Energie Atomique. Spacer grid for nuclear reactor fuel element assembly. 3,674,637, 7-4-72, Cl. 176-78.000.
Delagrange, Arthur D., to United States of America, Navy. Exponential attenuator-amplifier circuit. 3,652,871, 3-28-72, Cl. 307-230.
Delahunt, R. E., to Berry Systems Incorporated. Tapping device for beer kegs. 3,687,340, 8-29-72, Cl. 222-400.700.
Delahunty, Terry Wayne, to Chicago Bridge & Iron Company. Method of diluting liquefied gases. 3,658,499, 4-25-72, Cl. 48-196.
Delair, Jean-Paul; and Raisin, Jean-Pierre, to Institut Textile de France. Device for the automatic measurement of the length of yarn consumed in knitting machines. 3,690,123, 9-12-72, Cl. 66-1.00r.
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DeLang, Hendrik, to U.S. Philips Corporation, mesne. Optical interferometer. 3,635,552, 1-18-72, Cl. 356-106.
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Delbouille, Andre; Gobillon, Yves; and Stevens, Jacques, to Solvay & Cie. Process for the preparation of a catalyst useful for the polymerization of olefins. 3,663,660, 5-16-72, Cl. 260-88.200.
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Delcour, Leon Joseph Eugene; and Streel, Dominique Thomas Francois, to Cockerill-Ougree-Providence et Esperance-Longdoz, en abrege "Cockerill". Apparatus for applying a metal coating to an elongated metal article. 3,693,582, 9-26-72, Cl. 118-49.500.
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Delignieres, Robert; and Therond, Jean-Francois, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for coordinate conversions. 3,671,723, 6-20-72, Cl. 235-150.270.
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Della Porta, Paolo; Giorgi, Tiziano A.; Kindl, Bruno; and Zucchinelli, Mario, to S.A.E.S. Getters S.p.A. Method of producing substrate having a particulate metallic coating. 3,652,317, 3-28-72, Cl. 117-22.
Della Porta, Paolo; and Rebaudo, Mauro, to S.A.E.S. Getters S.p.A. Mercury generation. 3,657,589, 4-18-72, Cl. 313-178.
Della Porta, Paolo; and Ferrario, Bruno, to S.A.E.S. Getters S.p.A. Getter pump cartridge. 3,662,522, 5-16-72, Cl. 55-387.000.
Della Porta, Paolo; Zucchinelli, Mario; Rabusin, Elio; and Emili, Carlo, to S.A.E.S. Getters S.p.A. Generation of metal vapours. 3,663,121, 5-16-72, Cl. 417-48.000.
Della Porta, Paolo; Zucchinelli, Mario; and Emili, Carlo, to S.A.E.S. Getters S.p.A. Generation of alkali metal vapors. 3,667,513, 6-6-72, Cl. 141-311.000.
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Dellehim, John L., to International Business Machines Corporation. Program execution tracing system improvement. 3,707,725, 12-26-72, Cl. 444-1.000.
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Delli-Gatti, John L., to Fair-Quip Corporation. Auger mining machine. 3,698,768, 10-17-72, Cl. 299-55.000.
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Delmas, Jean-Raymond, to Societe des Lunetiers. Method and apparatus for securing metal mounting elements on a glass surface. 3,657,802, 4-25-72, Cl. 29-472.9.
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Delmonte, Clive Stephen. Modified Karl Fischer reagent. 3,656,907, 4-18-72, Cl. 23-230.
Delmonte, John; Meadows, Paul L.; and Benavides, Augusto E., to Furane Plastics Incorporated. Method of making transparent laminated structure having transplant interlayer. 3,703,425, 11-21-72, Cl. 156-245.000.
Delmousos, Alkis Alexander, to Scientific and Applied Research Ltd., Center of. Multiplication of metal surface, by electroplating or anodic dissolution. 3,692,639, 9-19-72, Cl. 204-28.000.
Deloach, Edwin R. Automation control system. 3,668,657, 6-6-72, Cl. 340-173.
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Delong, William T.; Szumachowski, Edwin R.; and Heverly, Harold R. Liquid binding agent for bonded arc welding flux. 3,704,149, 11-28-72, Cl. 106-286.000.
Delonge, Jean Georges. Plant box. 3,676,953, 7-18-72, Cl. 47-38.100.
Delonge, Jean-Claude Lucien: *See—*
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Deltoro, Thomas M. Automated color print processor. 3,672,288, 6-27-72, Cl. 95-89.00r.
Deltrol Corporation: *See—*
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Delu, Ion, to Complexul Pentru Prelucrarea Lemnului Reghin. Intermediate musical instrument between violina and viola. 3,680,424, 8-1-72, Cl. 84-274.000.
Delu, Ion, to Complexul Pentru Prelucrarea Lemnulai Reghin. Musical instrument with cords and bow. 3,691,891, 9-19-72, Cl. 84-275.000.
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Delzenne, Gerard Albert; Smets, Georges Joseph; and Hoefnagels, Jan Antonius, to Gevaert-Agfa N.V. Photochromic-photopolymerization compositions. 3,652,285, 3-28-72, Cl. 96-90.
Dema Engineering Co.: *See—*
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Demain, Arnold L.; Chemerda, John M.; and White, Raymond F., to Merck & Co., Inc. Enzymatic resolution of racemic (cis-1,2-epoxypropyl) phosphonic acid compounds. 3,635,795, 1-18-72, Cl. 195-2.
DeMaine, Paul A. D.; and Springer, Gordon K., to Research Corporation. Data compression and decompression system. 3,656,178, 4-11-72, Cl. 444-1.
Deman, Heiko T., to Abildgaard Laboratories. Machine for cutting and heading. 3,689,185, 9-5-72, Cl. 425-289.000.
Deman, Pierre; and Gouyet, Jean Pierre, to Thomson-CSF. Apparatus including sampling and quantizing means for discriminating received digital signals. 3,648,248, 3-7-72, Cl. 340-172.5.
DeMarco, Samuel J., to United Aircraft Products, Inc. Method of making a heat exchange tube. 3,636,607, 1-25-72, Cl. 29-157.3.
Demaree, John E.; and Demaree, Michael S. One-piece plastic sled. 3,635,490, 1-18-72, Cl. 280-18.
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Demarest, Donald M.; and Shore, Arnold I., to General Electric Company. Air cooling system for HVDC valve with staggered rectifiers. 3,646,400, 2-29-72, Cl. 317-100.
DeMarest, Donald M., to General Electric Company. Converter valve-pair arrangement. 3,684,943, 8-15-72, Cl. 321-8.00c.
Demarest, Henry M., Jr., to PPG Industries, Inc. Glass rolling apparatus and method. 3,694,180, 9-26-72, Cl. 65-101.000.
Demarez, Rene; and Dubois, Claude J., to Compagnie des Freins et Signaux Westinghouse. Method and apparatus for regulating brake control pressure. 3,692,365, 9-19-72, Cl. 303-3.000.
Demark, Anthony M., to Honeywell Inc. Semiconductor strain gauge amplifier. 3,654,545, 4-4-72, Cl. 323-75.
Demas, Nickolas P., to Wagner Electric Corporation. Two-terminal, two-color indicator lamp assembly. 3,697,802, 10-10-72, Cl. 315-65.000.
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Desmond, Matthew J. Restraining tape for mail packaging. 3,696,921, 10-10-72, Cl. 206-73.000.
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Di Cecco, Thomas. Mushroom puffs. 3,700,467, 10-24-72, Cl. 99-104.000.
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Di Giambattista, Vincent N.; and Greene, Robert L., Jr., to Kelsey-Hayes Company. Apparatus for making powder metal. 3,658,311, 4-25-72, Cl. 266-34.
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Di Lello, John, to Credit Systems, Inc. Means for interfacing an existing manual imprinter with a remotely operated, credit check control system. 3,693,156, 9-19-72, Cl. 340-149.00r.
Di Leone, Roland Ralph, to American Cyanamid Company. Polyethylene as a lubricant for polyimides of 3,4-dicarboxy-1,2,3,4-tetrahydro-1-naphthalene succinic dianhydride and a diamine. 3,647,920, 3-7-72, Cl. 260-851.
Di Leva, Anthony Joseph. Swimming doll. 3,693,292, 9-26-72, Cl. 46-247.000.
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Di Maio, Vincent, to Customflex, Inc. Electronic method and apparatus for audibly detecting changes. 3,641,814, 2-15-72, Cl. 73-186.
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Di Mauro, Frank C., to Leesona Corporation. Bobbin processing. 3,652,025, 3-28-72, Cl. 242-18.
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Di Mino, Alfonson, to ADM Tronics. Electronic trimming of microelectronic resistors. 3,676,633, 7-11-72, Cl. 219-69.00c.
Di Napoli, Anthony R.: *See—*
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Di Noia, Emanuel J.; and Breunich, Theodore R., to Universal Oil Products Company. Liquid level indicator system. 3,678,750, 7-25-72, Cl. 73-313.000.
Di Panni, Edward G., Jr., to Kenney Manufacturing Company. Curtain rod support. 3,661,272, 5-9-72, Cl. 211-105.100.
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Di Peri, Leonard J. Thermodynamic control device. 3,693,367, 9-26-72, Cl. 62-45.000.
Di Perna, James. Pollution suction water sweeper. 3,651,943, 3-28-72, Cl. 210-242.
Di Perno, Nicholas; Stiefenhofer, Paul; and Barbeau, Thomas. Article of footwear. 3,691,658, 9-19-72, Cl. 36-4.000.
Di Pietro, Joseph; and Todd, John Heaton, to Michigan Chemical Corporation. Production of flame-retardant spun-formed material. 3,660,582, 5-2-72, Cl. 117-136.
Di Pietro, Joseph, to Celanese Corporation. Shaped articles of improved dyeability. 3,703,392, 11-21-72, Cl. 106-177.000.
Di Rocco, James V., to Gordon Engineering Company. Low level conversion system. 3,696,403, 10-3-72, Cl. 340-347.0nt.
Di Rosa, Gaetano, to SOC. F.A.T.A. S.p.A. Overhead dual-track conveyors systems. 3,664,267, 5-23-72, Cl. 104-96.000.
Di Russo, Ettore; and Conserva, Mario, to Societa per l'Esercizio dell'Istituto Sperimentale dei Metalli Leggeri, S.p.A. Thermomechanical treatment process for heat treatable aluminium alloys. 3,706,606, 12-19-72, Cl. 148-12.700.
Di Salvo, Salvatore; and Collazuol, Mario, to Fiat Societa per Azioni. Adjustable headlamp. 3,686,497, 8-22-72, Cl. 240-61.800.
Di Spirito, Gino C., to Kreisler Manufacturing Corporation. Pocket clip for writing instrument. 3,638,280, 2-1-72, Cl. 24-11.
Di Stefan, Louis. Sagger. 3,681,818, 8-8-72, Cl. 25-153.000.
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Di Stefano, Edmund J.; and Enderley, Arthur E., to International Business Machines Corporation. Connector assembly with tine skewing housing. 3,673,542, 6-27-72, Cl. 339-14.00r.
Di Stefano, Ralph David; and James, Edward Anthony, to RCA Corporation. Selective deposition of metal. 3,640,765, 2-8-72, Cl. 117-212.
Di Vita, Philip S.; Powers, Earl N.; and Werneth, Charles J., to Data Display Systems, Inc. Digital data analysis and display device. 3,641,509, 2-8-72, Cl. 340-173.
Di Vita, Philip S.; Powers, Earl N.; and Werneth, Charles J., to Data Display Systems, Inc. Logic circuit probe with screw thread adjustment and interchangeable circuitry to match circuit being monitored. 3,646,579, 2-29-72, Cl. 324-72.5.
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Diamalt Aktiengesellschaft: *See—*
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Stark, Adolf F.; Kolbeck, Winfried; and Bayerlein, Friedrich J., 3,704,318.
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Diamond, Arthur S.; and Carr, David E., to Telautograph Corporation. Electrolytic recording medium. 3,668,079, 6-6-72, Cl. 204-2.000.
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Diamond, Clyde, Sr. Adjustable archery sight. 3,674,002, 7-4-72, Cl. 124-30.00r.
Diamond Die & Mold Co.: *See—*
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Horvath, William, 3,669,295.
Keen, Everett M.; and Siciliano, Anthony J., 3,641,983.
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Diamond, Jack. Diving bell invention. 3,641,776, 2-15-72, Cl. 61-69.
Diamond, Jack. Multiple inflatable pillow. 3,644,949, 2-29-72, Cl. 5-338.
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Diamond, Martin J.; and Needles, Howard L., to United States of America, Agriculture. Polymers of acryloxyacyl chlorides and use thereof. 3,681,312, 8-1-72, Cl. 260-86.10e.
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Diamond, Martin J.; and Needles, Howard L. Process of reacting hydrogen-donor fibrous substrate with polymers of acryloxyacyl chlorides and products produced thereby. 3,690,813, 9-12-72, Cl. 8-115.500.
Diamond, Norman: *See—*
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Diamond, Paul, to Raytheon Company. D.C. level controller. 3,703,003, 11-14-72, Cl. 343-7.00a.
Diamond Power Specialty Corporation: *See—*
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Rosen, Philip J., 3,706,921.
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Diana, Guy D., to Sterling Drug Inc. Thiazolylcarbimidoylureas. 3,673,201, 6-27-72, Cl. 260-302.00r.
Dianetti, Joseph C., to American Optical Corporation. Applanation tonometer arrangement. 3,693,416, 9-26-72, Cl. 73-80.000.
Diantonio, Daniel J., to Hewitt-Robins, Incorporated. Self-captivating wedge. 3,643,793, 2-22-72, Cl. 198-192.
Diapulse Corporation: *See—*
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Dias, Fleming, to Zenith Radio Corporation. Method of making a piezoelectric transducer. 3,696,479, 10-10-72, Cl. 29-28.350.
Dias, Jerry R.; and Pettit, George R. Process for preparation of 3-hydroxy A/B cis steroids of the cholestane series. 3,661,941, 5-9-72, Cl. 260-397.3.
Diassi, Patrick A.: *See—*
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Diaz, Richard A.; and Szabo, Andras I., to Westinghouse Electric Corporation. High resolution pulse rate modulated digital-to-analog converter system. 3,707,713, 12-26-72, Cl. 340-347.0da.
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Dibble, Leland, Jr.: *See—*
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Dibble, Leland, Jr., mesne: *See—*
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DiCamillo, Carmine V., to Bowles Fluidics Corporation. Pure fluid addition and substraction. 3,667,492, 6-6-72, Cl. 137-81.500.

Dichinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosilfovich; Anikanov, Nikolai Ivanovich; Grachev, Leonid Pavlovich; and Frumkin, Mikhail Evseevich, to Izdatelstvo "Izvestia". Rotary web printing machine 3,702,186, 11-7-72, Cl. 270-6.000.

Dick, A. B., Company: *See—*
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Dick, George W.; and Diamond, Norman, to Metropolitan Life Insurance Co. Insurance calculator. 3,698,630, 10-17-72, Cl. 235-78.000.

Dick, George Wilmer, to Bell Telephone Laboratories, Incorporated. Gaseous display driver circuits. 3,689,912, 9-5-72, Cl. 340-324.00r.

Dick, Heinrich, to Voith Getriebe KG. Magnetic valve. 3,665,963, 5-30-72, Cl. 137-625.48.

Dick, Heinrich, to Voith Getriebe KG. Electromagnet with a field-responsive control system. 3,671,814, 6-20-72, Cl. 317-123.000.

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Dick, Roy E. Automobile front end alignment equipment. 3,643,337, 2-22-72, Cl. 33-203.13.

Dick, William; and Gurton, Owen Allen, to Imperial Chemical Industries Limited. Slurried blasting explosive containing as sensitizing ingredient liquid non-explosive alkyl nitrate. 3,681,156, 8-1-72, Cl. 149-22.000.

Dickason, Ronald K., to Garlock, Inc. Fluid logic control system. 3,661,166, 5-9-72, Cl. 137-269.

Dicke, Clarence C., to Dicke Tool Company. Portable folding warning sign standard. 3,677,511, 7-18-72, Cl. 248-448.000.

Dicke, Robert H., to Research Corporation. Scatterhole camera and method for using same including the step of convoluting the image. 3,700,895, 10-24-72, Cl. 250-65.00r.

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Dickel, Daniel Frederick; and DeStevens, George, to Ciba Corporation. Indolylalkanoic acid lactones. 3,686,211, 8-22-72, Cl. 260-326.14r.

Dickens, Alvin J., Jr., to Reynolds, R. J., Tobacco Company. Gas suspension agglomeration. 3,700,461, 10-24-72, Cl. 99-26.000.

Dickens, Bernard L.; Melchionni, Bruno F.; and Werner, Raymond R., to RCA Corporation. Web cartridge. 3,653,608, 4-4-72, Cl. 242-199.

Dickens, Bernard L.; Kudla, Leonard J.; Luther, Arch C., Jr.; and Melchionni, Bruno F., to RCA Corporation. Web handling apparatus. 3,654,400, 4-4-72, Cl. 179-100.2.

Dickens, Harry R. Speed indicator for boats. 3,706,223, 12-19-72, Cl. 73-184.000.

Dickenson, Harvard G.; and De Vore, Dean L. Valve having improved means of removing and replacing seat elements. 3,689,028, 9-5-72, Cl. 251-328.000.

Dickerson, Burl D. Temporary pipe support. 3,687,407, 8-29-72, Cl. 248-59.000.

Dickerson, Robert B.: *See—*
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Dickert, Yancey J.: *See—*
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Dimitry, Edward A., to APM Corporation. Hermetically sealing boot with actuator for thumb wheel type switches. 3,668,938, 6-13-72, Cl. 74-18.100.
Dimmick, James Owen: *See—*
Becker, Floyd Kenneth; Dimmick, James Owen; Lewis, Theras Gordon; and O'Neill, John Francis, 3,668,318.
Dimmick, James Owen, to Bell Telephone Laboratories, Incorporated. Time division switching system. 3,689,896, 9-5-72, Cl. 340-172.500.
Dimmock, Eric P., to Monier Research & Development Pty. Ltd. Picking up flat articles. 3,670,869, 6-20-72, Cl. 198-185.000.
Dimo, Dimitrie P.: *See—*
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Dimo, Paul G.; and Dimo, Dimitrie P., to Ministerul Energiei Electrice. Graphic display apparatus for direct analysis of electric power systems. 3,706,073, 12-12-72, Cl. 340-172.500.
Dimond, Herbert M.: *See—*
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Hiller, Heinrich; and Dimroth, Peter, 3,682,923.
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Dine, Lester A.; and Lemmey, Edgar S. Close-up camera attachment. 3,687,030, 8-29-72, Cl. 95-11.000.
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Dinenno, Philip A., Jr.; Bonk, Joseph S.; Conrad, Kenneth C.; Moore, Rodney S.; Lochman, Harry E.; and Torello, Daniel D., to Westinghouse Electric Corporation. Split casting steam chest, nozzle chamber and casing assembly for turbines. 3,677,658, 7-18-72,Cl. 415-108.000.
Dinerman, Bernard B.: *See—*
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Dinerstein, Samuel, to Bunker-Ramo Corporation, The. Center set for clocks. 3,696,607, 10-10-72, Cl. 58-85.500.
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Dinges, Karl: *See—*
Mott, Ludwig; Muller, Richard; Dinges, Karl; and Krauss, Heinz-Walter, 3,696,063.
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Ott, Karl-Heinz; Schuster, Herbert; Meckel, Walter; Dinges, Karl; and Muller, Erwin, 3,641,209.
Weitzel, Hans; Dinges, Karl; Gobel, Wilhelm; and Hardt, Dietrich, 3,641,206.
Dingley, Wilfred; Bednar, John S.; and Rogers, Raymond R., to Canadian Patents and Development Limited. Silver plating baths. 3,645,858, 2-29-72, Cl. 204-34.
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Dingman, Robert W.: *See—*
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Dingwall, Andrew G. F., to RCA Corporation. Ratio-compensated resistors for integrated circuit. 3,644,802, 2-22-72, Cl. 317-235.
Dingwall, Andrew G. F., to RCA Corporation. Method of fabrication of photomasks. 3,673,018, 6-27-72, Cl. 156-11.000.
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Dingwall, Andrew Gordon Francis, to RCA Corporation. Apparatus for increasing the speed of series connected transistors. 3,651,342, 3-21-72, Cl. 307-251.

Dingwall, Andrew Gordon Francis, to RCA Corporation. Shaped riser on substrate step for promoting metal film continuity. 3,703,667, 11n21-72, Cl. 317-234.00r.
Dini, Franco. Car washing apparatus. 3,662,419, 5-16-72, Cl. 15-21.
DiNicolantonio, Frank: *See—*
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Dinizo, Philip T., Jr. Swimming pool water purifier. 3,677,408, 7-18-72, Cl. 210-169.000.
Dinlocker, Robert I., to Electro-Mechanical Instrument Company, Inc., mesne. Fabrication technique for electrical devices. 3,637,241, 1-25-72, Cl. 287-20.3.
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DiNoia, Emanuel J.; Klatte, Henry B.; and Breunich, Theodore R., to Universal Oil Products Company. Hydraulic cushioning device. 3,686,708, 8-29-72, Cl. 16-51.000.
Dinsmore, D. J., Co.: *See—*
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Dinwoodie, Andrew Harper; and Gourlay, George, to Imperial Chemical Industries Limited. Stabilised monomeric glyoxal solutions. 3,637,858, 1-25-72, Cl. 260-601.
Diolot, Lucien, to Societe Nouvelle Spidem. Rolling method using prestressing. 3,673,843, 7-4-72, Cl. 72-245.000.
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Dion, Warren E.: *See—*
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Kravitz, Bernard L., 3,680,205.
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DiPietro, Joseph, to Michigan Chemical Corporation. Fire retardant acrylonitrile polymer compositions. 3,645,964, 2-29-72, Cl. 260-45.7.
Dipietro, Joseph; Todd, John Heaton; and Mulph, Robert John, to Michigan Chemical Corporation. Production of flame retardant cellulosic materials. 3,650,820, 3-21-72, Cl. 117-136.
Dippold, Walter J.: *See—*
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Dirks, Chauncey L., to General Motors Corporation. Multi-station machine for automatic performance of sequential operations. 3,670,402, 6-20-72, Cl. 29-563.000.
Dirks Computer Systems Corporation, mesne: *See—*
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DiRocco, James V., to Baird-Atomic, Inc. Multi-mode spectral analyzer. 3,634,688, 1-11-72, Cl. 250-71.5.
Disa Elektronik A/S: *See—*
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Disa Elektronik A/S (Dansk Industri Syndikat A/S): *See—*
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Dischert, Robert Adams; and Monahan, John Francis, to RCA Corporation. Contrast compression circuits. 3,684,825, 8-15-72, Cl. 178-5.40r.
Dischert, William Arnold, to RCA Corporation. Sheet metal waveguide constructed of a pair of interlocking sheet metal channels. 3,686,590, 8-22-72, Cl. 333-24.100.
Dischler, Helmut, to Becorit Grubenausbau GmbH. Press assembly. 3,654,799, 4-11-72, Cl. 72-454.
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Dishington, Roland H.; and Hook, William R., to TRW Inc. Method and apparatus for location of radiant energy source. 3,638,025, 1-25-72, Cl. 250-203.
Dismon, Peter; and Jansen, Heinz, to Glanzstoff AG. Apparatus for applying a wire coil to a fine wire strand. 3,701,244, 10-31-72, Cl. 57-18.000.
Dismukes, John Pickett, to RCA Corporation. Low temperature silicon etch. 3,669,774, 6-13-72, Cl. 156-17.000.
Dison, James R., to General Motors Corporation. Ducted fan engine. 3,688,505, 9-5-72, Cl. 60-226.00r.
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Disposit Products Inc.: *See—*
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Dissen, Israel J.: *See—*
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Dissmeyer, Fred W.; and Olson, George E., to Smith, A. O., Harvestore Products, Inc. Entry tool for unloading mechanism. 3,650,417, 3-21-72, Cl. 214-17.
Dissmeyer, Fred W.; and Olson, George E., to Smith, A. O., Harvestore Products, Inc. Bottom unloader with overrunning clutch. 3,650,418, 3-21-72, Cl. 214-17.
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Distler, Harry; and Widder, Rudi, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of phosphorus sulfitobetaines. 3,652,633, 3-28-72, Cl. 260-456.
Distler, Harry; Widder, Rudi; Stanger, Bernd; Mueller, Alfred; and Druschke, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polymers having betaine groups containing sulfur atoms. 3,687,886, 8-29-72, Cl. 260-29.6ta.
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Ditello, James S.; and Ditello, Thomas J. Watch with ornamental running indicator. 3,665,700, 5-30-72, Cl. 58-57.000.
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Ditter, Jerome F.; Klusmann, Eugene B.; and Williams, Robert E., to United States of America, Navy. Carborane preparation from boranes. 3,660,494, 5-2-72, Cl. 260-606.5.
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Dittmar, Bruce I., to Du Pont de Nemours, E. I., and Company. Rearrangement process for preparation of alkyl 2-benzimidazolecarbamates from alkyl 2-amino-benzimidazole-1-carboxylates. 3,647,817, 3-7-72, Cl. 260-309.2.
Dittmar, Bruce I., to Du Pont de Nemours, E. I., and Company. Alkyl 1-(N-substituted thiocarbamoyl)-2-benzimidazolecarbamates as fungicides and mite ovicides. 3,662,069, 5-9-72, Cl. 424-273.
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Dixon, Robert L., to Smith International, Inc. Tunneling cutter gage ring replacement. 3,666,029, 5-30-72, Cl. 175-374.
Dixon, Rod P., to United States of America, Atomic Energy Commission. Recovery of geothermal energy by means of underground nuclear detonations. 3,640,336, 2-8-72, Cl. 165-1.
Dixon, Rolland E.; and Sherk, Fred T., to Phillips Petroleum Company. Hydrocarbon conversion. 3,704,334, 11-28-72, Cl. 260-683.430.
Dixon, Ronald L., to Eastman Kodak Company. Tobacco smoke filter element and method for making. 3,678,941, 7-25-72, Cl. 131-261.00b.
Dixon, Roy C.; Hash, Larry J.; and Steen, Robert F., to International Business Machines Corporation. Line control adapter for synchronous digital formatted message communications system. 3,633,168, 1-4-72, Cl. 340-167.
Dixon, Roy H. Oil filter in crankcase pan. 3,707,202, 12-26-72, Cl. 185-6.240.
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Preen, Robert, 3,696,777.
Dixon, Ted A. Nebulizer and tent assembly. 3,703,173, 11-21-72, Cl. 128-194.000.
Dixon, Thomas P.; and Worrell, Robert J., to United Aircraft Corporation. Fluid pressure variation sensor and indicator. 3,677,218, 7-18-72, Cl. 116-70.000.
Dixon, William D., to Monsanto Company. Benzothiazolinylidene substituted ureas. 3,671,531, 6-20-72, Cl. 260-305.000.
Dixon, William D., to Monsanto Company. Certain 1-aryl or aralkyl-3-(pyridyl) formimidoyl-ureas or thioureas. 3,699,110, 10-17-72, Cl. 260-294.80e.
Dixon, William H., to Marathon Oil Company. Chromic acid injection for well stimulation. 3,648,775, 3-14-72, Cl. 166-307.
Dixon, William H., to Marathon Oil Company. Stimulating producing wells with chromic acid. 3,648,776, 3-14-72, Cl. 166-307.
Dixon, William Jennings, to Bouligny, R. H., Inc. Boom rotation brake release means for derricks. 3,690,387, 9-12-72, Cl. 173-43.000.
Dixon, William Paul; and Kendall, David N., to McDonnell Douglas Corporation. Semi-conductor temperature sensitive means. 3,671,328, 6-20-72, Cl. 136-230.000.
Dixon-Bate, B., Limited: *See—*
Roberts, Richard Walter, 3,668,743.
Dixson, Bernard, to Sealmaster Limited. Seals. 3,659,382, 5-2-72, Cl. 49-481.
Dixson, Richard E.; and Merrill, Linus R. Device for demounting tires. 3,701,375, 10-31-72, Cl. 157-1.330.
Diyak, Ivan Vasilievich: *See—*
Skulsky, Jury Valentinovich; Boretsky, Vasily Grigorievich; Sakharnov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievih; Schukin, Pavel Ivanovich; Danilkiv, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamovich; and Sokirko, Vasily Andreevich, 3,657,962.
Dizio, Steven F., to Aero Vac Corporation. Programable readout for delta T bar spectrometer. 3,651,686, 3-28-72, Cl. 73-25.
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Djsek, Henry F. Collapsible barbecue grill. 3,688,757, 9-5-72, Cl. 126-9.00r.
Dlabac, Antonin: *See—*
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Dlugos, Daniel F.; Freeman, Gerald C.; and Piotroski, Peter N., to Pitney-Bowes, Inc. Parcel postage metering system. 3,692,988, 9-19-72, Cl. 235-151.330.
Dlugosinski, Theodore: *See—*
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Dluhy, Herbert, to American Export Isbrandtsen Lines, Inc. Shipping container with racks for supporting vehicles therein. 3,675,795, 7-11-72, Cl. 214-16.1cc.
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Khrenov, Konstantin Konstantinovich; Gursky, Pavel Ivanovich; Shulman, Grigory Alexandrovich; Klimenko, Gennady Alexeevich; Kirdo, Ivan Viktorovich; Dmitrenko, Georgy Viktorovich; Yagupov, Ivan Nikolaevich,; Tsyrlin, Mark Irmovich; Novikov, Anatoly Petrovih; and Puzov, Filimon Efimovich, 3,688,382.
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Doak, Richard L. Method of forming and installing automobile tail pipe. 3,636,606, 1-25-72, Cl. 29-157.3.
Doane, De Witt H., to Cockle Ventilator Company, Inc. Grease extractor method. 3,653,179, 4-4-72, Cl. 55-1.
Doane, Elliott P.: *See—*
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Doane, Ernest E. Method of making footwear having insole and intermediate sole of three-dimensional shape. 3,662,415, 5-16-72, Cl. 12-145.
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DOB Division of Fairmont Foods Co.: *See—*
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Dobbelstein, Arnold; Hille, Hans-Dieter; and Momm, Anneliese Geb. Koziokek, to Herberts, Kurt, Dr., & Co. vorm. Otto Louis Herberts. Process for the production of insulating coatings on electric conductors. 3,676,403, 7-11-72, Cl. 260-75.
Dobbelstein, Arnold; Hille, Hans-Dieter; and Holfort, Horst, to Herberts, Kurt, Dr., & Co. vorm Otto Louis Herberts. Electrical conductors coated with polyesterimides from dicyano diamide-hydrazine reaction products. 3,707,403, 12-26-72, Cl. 117-218.000.
Dobbener, Raymond; and De Haas, Hans, to Duisburger Kupferhutte. Method for the removal of impurities from metallic zinc. 3,685,985, 8-22-72, Cl. 75-86.000.
Dobbins, Billy D.: *See—*
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Dobbs, Richard A.; and Holmes, Richard N., to McDonnell Douglas Corporation. Acoustic face sheet. 3,700,067, 10-24-72, Cl. 181-33.
Dobbs, Richard H., to Dobbs, Harriette E. Drive mechanism. 3,685,363, 8-22-72, Cl. 74-31.000.
Dober, Edward J.; and Koch, Robert W., to Gulf Research & Development Company. Riser cracking of solvent extracted gas oil. 3,654,137, 4-4-72, Cl. 208-87.
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Dobinson, Bryan; Hope, Paul; Winterbottom, Kenneth; and Shaw, Trevor, to Ciba-Geigy AG and I.W.S. Nominee Company Limited. Treatment of keratinous fibres and fabrics. 3,703,352, 11-21-72, Cl. 8-128.00a.
Dobinson, Bryan; and Winterbottom, Kenneth, to Ciba-Geigy AG. Treatment of keratinous fibres and fabrics with polythiols. 3,706,527, 12-19-72, Cl. 8-127.500.
Dobinson, Bryan; Hope, Paul; and Winterbottom, Kenneth, to Ciba-Geigy AG. Modifying keratinous textiles and fibres with mercaptan polyesters. 3,706,528, 12-19-72, Cl. 8-128.00a.
Dobinson, Bryan; and Stark, Bernard Peter, to Ciba-Geigy AG. Esters of thioglycollic and mercapto propionic acid. 3,707,552, 12-26-72, Cl. 260-481.00r.
Dobinson, Frank; and Saunders, James H., to Monsanto Company. High molecular weight increase of polyamides with bis(imino-oxazolidines). 3,697,486, 10-10-72, Cl. 260-78.0sc.
Dobkin, Lloyd: *See—*
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Doble, Brian Reginald: *See—*
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Christie, Gerald Anthony; Doble, Brian Reginald; and Bromfield, Alec Roy, 3,677,679.
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Dobler, Christian D.; and Lilly, Herbert J., Jr., to Subsea Equipment Associates Limited, mesne. Method for connection of an underwater riser to a floating facility. 3,677,310, 7-18-72, Cl. 141-1.
Dobler, Christian D.; and Lilly, Herbert J., Jr., to Subsea Equipment Associates Limited, mesne. Fluid-swivel. 3,698,433, 10-17-72, Cl. 137-615.000.
Dobler, Hans, to Attenhofer, A., AG. Front jaw for safety ski bindings. 3,638,958, 2-1-72, Cl. 280-11.35.
Dobo, Emerick J. Cary; Kim, Don W.; and Mallonee, William C., to Monsanto Company. Process and apparatus for producing nonwoven fabrics. 3,705,068, 12-5-72, Cl. 156-441.
Dobo, Janos; Somogyi, Agnes; and Lakner, Endre, to Medimpex Gyogyszerkulkereskedelmi Vallalat. Dose indicator paint of an aqueous emulsion of vinyl chloride copolymer and methanyl yellow. 3,677,967, 7-18-72, Cl. 252-408.000.
Dobosan, Valeriu; and Cascaval, Nicolae, to Uzina de Autocamioane "Steagul Rosu" Brasov. Welding unit for motor car wheels. 3,702,916, 11-14-72, Cl. 219-125.00k.
Dobouney, Mouayed Edouard: *See—*
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Dobrasevic, Zdravko D.: *See—*
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Dobratz, Burton E.; and Farnsworth, Robert P., to Hughes Aircraft Company. Control circuit for biasing a photodetector so as to maintain a selected false alarm rate. 3,644,740, 2-22-72, Cl. 250-211.
Dobrauz, John W.: *See—*
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Dobrinich, Dennis: *See—*
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Dobritz, Gunter, to Dragerwerk Aktiengesellschaft. Method for mixing pressure gases particularly for respirators and medical devices. 3,669,134, 6-13-72, Cl. 137-7.000.
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Dobson, Donald R., to International Business Machines Corporation. Frequency detection system. 3,660,601, 5-2-72, Cl. 178-88.000.
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Dobson, Richard N.; Boyce, Kenneth E.; Gaiser, John A.; and Gris, Conrad David, to Dominion Foundries and Steel Limited. Stabilizing high speed railway trucks. 3,704,670, 12-5-72, Cl. 105-201.000.
Dobson, Thomas A.: *See—*
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Dobson, Thomas A., to American Home Products Corporation. Dibenzofuran derivatives and preparation thereof. 3,649,651, 3-14-72, Cl. 260-346.2.
Dobson, W. E. & F., Limited: *See—*
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Dochterman, Richard W., to General Electric Company. Method of making a dynamoelectric machine having improved housing, bearing and support structure. 3,670,405, 6-20-72, Cl. 29-596.000.
Dock, Mortimer Russell. Cross-member for a traction assembly, having replaceable cleats. 3,633,644, 1-11-72, Cl. 152-229.
Dock, Mortimer Russell, to H-2-O Filter Corporation, The. Packaging structure. 3,664,569, 5-23-72, Cl. 229-10.
Dock, Mortimer Russell, to H-2-O Filter Corporation, The. Cigerette holder containing activated carbon and frangible capsules. 3,685,521, 8-22-72, Cl. 131-187.000.
Docker, Emerson W., to Docker Safe Trailers, Inc. Travel trailer. 3,680,887, 8-1-72, Cl. 280-124.00a.
Docker, Leslie Thomas. Spring interiors and articles combining spring interiors. 3,681,798, 8-8-72, Cl. 5-351.000.
Docker Safe Trailers, Inc.: *See—*
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Dockerty, Robert Charles: *See—*
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Dockery, Denzel J. Pneumatic clamp. 3,638,675, 2-1-72, Cl. 137-550.
Dockery, Walter E. Fire extinguishing system for cook stoves and ranges. 3,653,443, 4-4-72, Cl. 169-2.
Dockery, Walter E. Self-defrosting windshield with automatically variable transparency. 3,695,681, 10-3-72, Cl. 296-97.00f.
Dockner, Toni: *See—*
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Dockter, Leroy: *See—*
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Doctoroff, Michael; Hoppert, Bernt D.; and Leece, Steven H., to Bausch & Lomb Incorporated. Heat absorbing reflector utilizing a metallic substrate. 3,645,600, 2-29-72, Cl. 350-1.
Doctoroff, Michael; Hoppert, Bernt D.; and Leece, Steven H., to Bausch & Lomb Incorporated. Reflector for specularly reflecting visible radiation and diffusely reflecting heat radiation. 3,645,601, 2-29-72, Cl. 350-1.
Documation Inc.: *See—*
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Karecki, Marion R.; Chastain George R.; and Barnes, Thomas R., 3,685,690.
Dodd, John A., Jr.; and Geshner, Robert A., to RCA Corporation. Method of making a graded photoprinting master. 3,698,903, 10-17-72, Cl. 96-36.100.
Dodd, John Alton, Jr.; and Line, George Harry, to RCA Corporation. Method of making matching photoprinting masters. 3,674,488, 7-4-72, Cl. 96-44.000.
Dodd, Russell O. Bearing race driver. 3,651,553, 3-28-72, Cl. 29-201.
Doddington, George Rowland; Flanagan, James Loton; and Lummis, Robert Carl, to Bell Telephone Laboratories, Incorporated. Automatic speaker verification by non-linear time alignment of acoustic parameters. 3,700,815, 10-24-72, Cl. 179-1.0sa.
Dodds, Irvine. Keyboard for a typewriter. 3,698,532, 10-17-72, Cl. 197-100.000.
Dodds, Phyllis R.: *See—*
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Chiola, Vincent; and Dodds, Phyllis R., 3,674,464.
Dodds, Thomas J., Jr.; Eagleson, Clegg; and Gibson, Harold F., to Burroughs Corporation. Time-shared apparatus for operating plural display media, and display methods including paging, displaying special forms and displaying information in tabulated form. ,648,245, 3-7-72, Cl. 340-172.5.
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Dodge, Gerald Floyd, III; and True, Howard D. F., Jr., to General Electric Company. Side-by-side refrigerator. 3,670,521, 6-20-72, Cl. 62-329.000.
Dodge, Harry G.; and Spontelli, Leonard P., to Crawford Fitting Company. Gripping device. 3,661,378, 5-9-72, Cl. 269-131.
Dodge, James B.: *See*—
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Dodgen, John N.; and Johnson, Kenneth R., 3,658,376.
Dodgen, John N.; and Taylor, Harry L., 3,659,894.
Dodgen, John N., to Dodgen Industries, Inc. Jack and tie-down system for a vehicle mounted camper. 3,635,366, 1-18-72, Cl. 214-515.
Dodgen, John N.; and Taylor, Harry L., to Dodgen Industries, Inc. Camping trailer safety and insulating window. 3,656,798, 4-18-72, Cl. 296-23.
Dodgen, John N.; and Johnson, Kenneth R., to Dodgen Industries, Inc. Jack and tie-down system for a vehicle mounted camper. 3,658,376, 4-25-72, Cl. 296-23.
Dodgen, John N.; and Taylor, Harry L., to Dodgen Industries, Inc. Vehicle mounted camper coach. 3,659,894, 5-2-72, Cl. 296-23.
Dodgen, John N. Jack and tie-down system for a vehicle mounted camper. 3,698,758, 10-17-72, Cl. 296-23.00m.
Dodgson, Hugh, to Moore Business Forms, Inc. Multiple form with removable tabs. 3,674,286, 7-4-72, Cl. 281-2.000.
Dodgson, Leonard S. Bumper guard for snow mobiles. 3,651,881, 3-28-72, Cl. 180-5.
Dodington, Sven H., to International Telephone and Telegraph Corporation. Tacan antenna system. 3,680,119, 7-25-72, Cl. 343-106.00r.
Dodman, David; and Woolley, John Mathers, to Imperial Chemical Industries Limited. Reduction of aromatic nitro compounds to aromatic primary amines. 3,637,820, 1-25-72, Cl. 260-508.
Dodman, David; Pearson, Kenneth William; and Woolley, John Mathers, to Imperial Chemical Industries, Limited. Catalysts. 3,700,605, 10-24-72, Cl. 252-471.000.
Dodoes, Arnold A. Tractor having hitch assembly for mounting a plurality of implements. 3,650,331, 3-21-72, Cl. 172-21.
Dodson, A. C., to Schlumberger Technology Corporation. Shaped charge devices for wire carriers. 3,636,875, 1-25-72, Cl. 102-20.
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Doebel, Karl J.; and Gagneux, Andre R., to Geigy Chemical Corporation. Substituted 2-mercaptoimidazole derivatives. 3,636,003, 1-18-72, Cl. 260-309.
Doebel, Karl J.; and Gruenfeld, Norbert, to Ciba-Geigy Corporation. Pyridyl-2-imidazolonic derivatives in therapeutic compositions and methods. 3,646,206, 2-29-72, Cl. 424-263.
Doebel, Karl J.; and Gagneux, Andre R., to Ciba-Geigy Corporation. Certain substituted 2-alkylmercaptoimidazole derivatives. 3,651,080, 3-21-72, Cl. 260-309.
Doebel, Karl J.; and Gagneux, Andre R., to Ciba-Geigy Corporation. Anti-inflammatory methods using derivatives of 2-mercaptoimidazoles. 3,658,991, 4-25-72, Cl. 424-273.
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Doede, Clinton M.; and Combs, Eugene E., to Quantum, Inc. Composite articles having metallic boating with high temperature lubricity. 3,669,719, 6-13-72, Cl. 117-93.1pf.
Doehel, Karl J.; and Francis, John E., to Ciba-Geigy Corporation. Intermediates for 3-hydrazino-1,2,8,9-tetraazaphenalenes. 3,691,165, 9-12-72, Cl. 260-250.00a.
Doehler, Emil J. Vehicle safety guard. 3,640,572, 2-8-72, Cl. 297-390.
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Doehring, Ekkehard; and Kirschner, Peter, to Volkswagenwerk Aktiengesellschaft. Vibration dampener for motor vehicle drive shaft. 3,680,407, 8-1-72, Cl. 74-574.000.
Doel, R Garth; Bricknell, William H.; and Osipenko, Stephen, to Hawker Siddeley Canada Ltd. Tree shearing head. 3,643,712, 2-22-72, Cl. 144-34.
Doelz, Melvin L. Quadrature transmission modern apparatus using single sideband data detection. 3,688,196, 8-29-72, Cl. 325-60.000.
Doem, Peter A., to Fabrique d'Horlogerie Chs Tissot & Fils S.A. Electromechanical clockwork with decoupling mechanism. 3,665,698, 5-30-72, Cl. 58-23.
Doeoschle, Fritz, to Sherwood Medical Industries Inc. Dental prophylactic device. 3,691,636, 9-19-72, Cl. 32-58.000.
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Steinhofer, Adolf; Doerfel, Helmut; Falkenstein, Georg; and Jeserich, Wolfgang-Dieter, 3,700,658.
Doerfel, Helmut; and Zettler, Hans Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous process for the after-condensation of polyhexa-methylene adipamide. 3,657,195, 4-18-72, Cl. 260-785.
Doerfling, Ralph G., to Superwick, Inc., mesne. Cable control unit. 3,645,503, 2-29-72, Cl. 254-197.
Doerge, Herman P.; and Wismer, Marco, to PPG Industries, Inc. Urethane foams with reduced smoke levels. 3,637,542, 1-25-72, Cl. 260-2.5.
Doerge, Herman P.; and Wismer, Marco, to PPG Industries, Inc. Urethane foams with reduced smoke levels. 3,639,307, 2-1-72, Cl. 260-2.5.
Doerge, Herman P.; and Wismer, Marco, to PPG Industries, Inc. Urethane foams with reduced smoke levels. 3,647,724, 3-7-72, Cl. 260-2.5.
Doerges, Alexander: *See*—
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Doering, A. L., Mfg. Corporation: *See*—
Heim, Kenneth J.; and Rimmler, Fred F., 3,670,605.
Doering, Arthur, to American Cyanamid Company. Oxidation of biureas to azobisformamides. 3,637,650, 1-25-72, Cl. 260-192.
Doering, Dieter: *See*—
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Doering, George I., to Industrial Nucleonics Corporation. Frequency standardized penetrating radiation gauge. 3,655,976, 4-11-72, Cl. 250-83.3.
Doering, George I., to Industrial Nucleonics Corporation. System and method for facilitating the operating set-up of a radiation gauge. 3,668,398, 6-6-72, Cl. 250-83.3.
Doering, James Peter: *See*—
Vogelaar, Bernard Francis; Doering, James Peter; and Pasturczak, Felix Stanley, 3,636,684.
Doering, William A.: *See*—
Clay, Robert B.; and Doering, William A., 3,649,138.
Doering, William Von E.; Farrissey, William J., Jr.; and Frulla, Floro F., to Upjohn Company, The. Process for preparing hydroquinones. 3,676,503, 7-11-72, Cl. 265-621.00h.
Doering, William Von E.; Farissey, William J., Jr.; and Frulla, Floro F., to Upjohn Company, The. Process for the preparation of substituted hydroquiones. 3,683,034, 8-8-72, Cl. 260-620.000.
Doerr, Marvin L.; and Vizurraga, Luis R., to Fiber Industries, Inc. Polyesterifation of 1,4- and 1,5-diols. 3,635,899, 1-18-72, Cl. 260-75.
Doerr, Richard L.; and Fuzesi, Stephen, to Olin Corporation. Phosphated polyols and process for making same. 3,692,880, 9-19-72, Cl. 260-929.000.
Doerrfeld, Robert E.: *See*—
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Doersam, Charles H., Jr. Communicating computer. 3,668,654, 6-6-72, Cl. 340-172.5.
Doerscheln, Fritz, to Heat Sealing Equipment Manufacturing Company. Multiple sheet dispensing apparatus. 3,691,727, 9-19-72, Cl. 53-390.000.
Doerter, Randall H., to Textron Inc. Method and apparatus for gapping and cleaning slide fastener chain. 3,685,130, 8-22-72, Cl. 29-408.000.
Doessel, James H.; and McKenna, Patrick A. Plastic tennis racket having predetermined cross sections effecting flexibility. 3,647,211, 3-7-72, Cl. 273-73.

Doevenspeck, Heinz, to Eifer, Richard, Dr., Wirtschaftsprufungszesellschaft und Steuerberatungsgesellschaft mit beschrankter Haftung. Device for treating disperse systems. 3,679,556, 7-25-72, Cl. 204-269.000.

Dogadkin, Boris Aristarkhovich: *See—*
Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrischev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olge Demidovna; an Yarovaya, Galina Dmitrievne, 3,674,496.

Dogadko, Peter: *See—*
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Doggart, John; and Gleave, Paul Rogerson, to Friedland, V. & E., Limited. Domes for electric bells. 3,683,845, 8-15-72, Cl. 116-148.000.

Doggett, John G., Jr.: *See—*
Anderson, Harold; Cain, Jerry Blanchard; and Doggett, John G., Jr., 3,696,432.

Dogigli, Johann, to ITAB Dogidli KG. Slide-rules incorporating magnetic elements. 3,643,070, 2-15-72, Cl. 235-70.

Dogl, Ernst; Funck, Albrecht; Wellach, Dieter; and Winkler, Hans-Georg, to Hauni-Werke Korber & Co. KG. Method and means for regulating the operation of apparatus for the production and processing of cigarettes or the like. 3,672,373, 6-27-72, Cl. 131-21.0r.

Dohan, William L., to Ballymore Company. Modular fixed-level work platform. 3,698,511, 10-17-72, Cl. 182-113.000.

Doheny, Anthony J., Jr.: *See—*
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Doherty, Alfred E., Jr.; and Knop, Louis H., to Aerojet-General Corporation. Means for joining metallic tubes by explosive bonding. 3,645,435, 2-29-72, Cl. 228-3.

Doherty, Edward E. Water repelling compositions. 3,682,697, 8-8-72, Cl. 117-167.000.

Doherty, Edward T.: *See—*
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Doherty, George O. Intubation tubes. 3,638,655, 2-1-72, Cl. 128-351.

Doherty, George O. Surgical collection unit. 3,648,698, 3-14-72, Cl. 128-276.

Doherty, George O. P. 2,6-Bis(trifluoromethyl)-1H-imidazo[4,5-b]pyridine. 3,681,369, 8-1-72, Cl. 260-296.00h.

Doherty, Harry G.: *See—*
Plank, Charles J.; Waldo, Pharez, G.; and Doherty, Harry G., 3,669,875.

Doherty, Henry. Means for collecting a dog's excrement by the dog's owner or walker. 3,685,088, 8-22-72, Cl. 15-257.600.

Doherty, Thomas E.: *See—*
Amberg, Stephen W.; Doherty, Thomas E.; and Fikert, Jacob J., 3,632,252.

Doherty, Walter G. Pavement repair. 3,699,854, 10-24-72, Cl. 94-22.000.

Dohgane, Iwao: *See—*
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayasi, Nobuki, 3,647,866.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,662,000.

Dohi, Tadahiro; Yu, Taneyoshi; Nakagawa, Takayuki; and Hiraoka, Kozi, to Otsuka Pharmaceutical Company Limited. Carnitine salts of N,N-dimethylbiguanide hydrohalides and manufacturing the same. 3,651,132, 3-21-72, Cl. 260-501.13.

Dohim, Hidemi: *See—*
Matsuda, Hideaki; Okamoto, Takanori; and Dohim, Hidemi, 3,689,427.

Dohmann, Fritz. Method for manufacturing bevel gears. 3,675,459, 7-11-72, Cl. 72-352.000.

Dohmeier & Strothotte KG: *See—*
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Dohmeier, Arnold; and Schwedhelm, Diether, to Dohmeier & Strothotte KG. Packaging device. 3,673,765, 7-4-72, Cl. 53-187.000.

Dohmen, Heinz. Sealed bearings lubricated by a lubricating medium. 3,679,277, 7-25-72, Cl. 308-187.100.

Dohn, George D.: *See—*
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Dohnalik, Joseph J., to Garden City Envelope Company. Machines for making envelopes. 3,635,128, 1-18-72, Cl. 93-1.

Dohnalova-Binkova, Blanka; and Binek, Bedrich, to Ceskoslovenska akademie ved. Generator of monodisperse aerosols. 3,700,170, 10-24-72, Cl. 239-102.000.

Dohner, Rene: *See—*
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Dohogne, Charles L.: *See—*
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Werdehausen, Achim; and Dohr, Manfred, 3,650,963.

Dohrendorf, Franz Friedrich Johannes, to Nordischer Maschinenbau Rud Baader. Method of and apparatus for gripping a fish for mechanical dressing. 3,680,174, 8-1-72, Cl. 17-45.000.

Dohrmann Instruments Company: *See—*
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Doi, Kaname: *See—*
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Doi, Kazuo; Murakami, Takeru; Kawamura, Hideo; Takaishi, Katsutoshi; and Nakano, Yoshinobu, to Matsushita Electric Works, Ltd. Polyester resins crosslinked by allyl derivatives of isocyanuric acid. 3,651,173, 3-21-72, Cl. 260-868.

Doi, Kazuo; Nakajima, Jun; Takahashi, Hisamitsu; and Tomokawa, Hideo, to Matsushita Electric Works, Ltd. Inorganic coating composition. 3,669,699, 6-13-72, Cl. 106-74.

Doi, Ken-Ichi: *See—*
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Doi, Kikuo; Takahashi, Masao; Nanamatsu, Satoshi; and Fujino, Yoshio, to Nippon Electric Company, Limited. $LiTaO_3$ piezoelectric vibrators. 3,644,761, 2-22-72, Cl. 310-9.5.

Doi, Manabu, to Kabushiki Kaisha Ricoh. Detection system for detecting holes in photocopying paper. 3,636,442, 1-18-72, Cl. 324-65.

Doi, Masaru: *See—*
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Doi, Muneharu: *See—*
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Doi, Takao: *See—*
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Doi, Takuji: *See—*
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Doi, Tatsumi: *See—*
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Doi, Tetsuo; and Sagae, Shoji, to Hitachi, Ltd. Image transfer recording apparatus. 3,662,395, 5-9-72, Cl. 346-74.

Doi, Toshio: *See—*
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Kawabe, Ushio; Kimura, Hiroshi; Tomeoku, Hiroshi; and Doi, Toshio, 3,673,444.

Doi, Toshio, to Victor Company of Japan, Limited. Jitter correction system for magnetic recording and reproducing apparatus. 3,639,689, 2-1-72, Cl. 178-6.6.

Doi, Toshitada; and Akiba, Kosuke, to Sony Corporation. Loop antenna with spaced impedance elements. 3,680,134, 7-25-72, Cl. 343-740.000.

Doi, Yoshikazu; and Honda, Yasuo, to Xerox Corporation. Split dagor-type of symmetrical copying lens system. 3,672,748, 6-27-72, Cl. 350-220.000.

Doi, Yoshikazu; Kishikawa, Toshiro; and Nomura, Hiroshi, to Fuji Shashin Koki Kabushiki Kaisha and Nippon Television Hosomo Kabushiki Kaisha. Color television camera with dichroic mirrors. 3,681,521, 8-1-72, Cl. 178-5.40e.

Doi, Yoshikazu; Kishikawa, Toshiro; and Sunaga, Yasumasa, to Fuji Shashin Koki Kabushiki Kaisha. Optical system for mechanically scanning with a rotating polyhedral reflector. 3,706,484, 12-19-72, Cl. 350-7.000.

Doittau Produits Metallurgie Societe a Responsabilite Limitee: *See—*
Nouveau, Henry, 3,660,135.

Doiuchi, Toru: *See—*
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Doki, Yoshikuni, to Honeywell Inc. Automatic-manual change-over switch capable of providing pressure indication. 3,698,247, 10-17-72, Cl. 73-388.brn.

Dokopoulos, Petros, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. High-current high-voltage switch with incisor electrode. 3,641,289, 2-8-72, Cl. 200-61.08.

Dokoshi, Noriaki: *See—*
Yoda, Naoya; Kubota, Takashi; Kurihara, Masaru; Dokoshi, Noriaki; and Yoshihi, Toshiya, 3,682,860.

Dokoupil, Jiri, to Maschinenfabrik Turner A.G. Apparatus for working flat, flexible material. 3,677,041, 7-18-72, Cl. 69-33.000.

Dola, Frank Peter, to AMP Incorporated. Connecting device. 3,634,605, 1-11-72, Cl. 174-88.

Dolan, Charles E. Belt. 3,653,100, 4-4-72, Cl. 24-198.

Dolan, Richard F., to General Motors Corporation. Measuring probe assembly. 3,678,584, 7-25-72, Cl. 33-169.00r.

Doland, Charles M.: *See—*

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Doland, George D.: *See—*
Doland, George D.; Doland, George D.; and Doland, Charles M., 3,637,037.
Doland, George D.; Doland, George D.; and Doland, Charles M. Auto theft protection system. 3,637,037, 1-25-72, Cl. 180-114.
Dolansky, Ladislav; and Phillips, Nathan D., to Research Corporation. Voiced sound display. 3,676,595, 7-11-72, Cl. 179-1.0vs.
Dolas, Michael. Advertising and display device. 3,692,190, 9-19-72, Cl. 211-135.000.
Dolbear, Geoffrey Emerson, to Grace, W. R. & Co. Method for determining octane ratings for gasolines. 3,693,071, 9-19-72, Cl. 324-.50r.
Dolby, Geoffrey, to Rolls-Royce Limited. Aircraft. 3,652,037, 3-28-72, Cl. 247-56.
Dolby Laboratories Inc.: *See—*
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Dolby, Ray Milton, to Dolby Laboratories Inc. Compressors and expanders for noise reduction systems. 3,665,345, 5-23-72, Cl. 333-14.
Dolcimascolo, Charles; Hoffman, Daniel S.; Jones, Hugh L.; and Mercik, James E., to Xerox Corporation. Bias roll transfer. 3,702,482, 11-7-72, Cl. 346-74.0es.
Dold, Klaus: *See—*
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Dole Valve Company, The: *See—*
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Dolega, Frank J. Lamp structure. 3,666,938, 5-30-72, Cl. 240-52.15.
Dolegowski, Arthur R., to Norgren, C. A., Co. Lubricator and sensor valve therefor. 3,680,661, 8-1-72, Cl. 184-55.00a.
Dolen, Cecil W.: *See—*
Huffaker, James E.; Myers, Ernest L.; Dillon, Brian D.; and Dolen, Cecil W., 3,695,573.
Dolev, Amior; Mannheim, Chaim H.; and Schimmel, Moshe, to Centre for Industrial Research, The National Council for Research and Development. Method of drying fruits. 3,692,546, 9-19-72, Cl. 99-204.000.
Dolezal, Foods M.: *See—*
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Dolezal, Premysl Thomas: *See—*
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Dolezal, Richard, to Sulzer Brothers Limited. Apparatus and method for starting up a steam generator. 3,648,667, 3-14-72, Cl. 122-406.
Dolezal, Richard, to Sulzer Brothers Limited. Forced circulating steam generator and method of generating. 3,690,303, 9-12-72, Cl. 122-406.00s.
Dolezal, Wayne R.: *See—*
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Dolfing, Thale; and Lolkema, Jan, said Lolkema assor. to Scholten Honig Research N.V. Method of impeding the growth of plants on non-agricultural soils. 3,690,107, 9-12-72, Cl. 61-36.00r.
Dolfini, Joseph Edward: *See—*
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Weisenborn, Frank Lee; Dolfini, Joseph Edward; Bach, Georges Gustav; and Bernstein, Jack, 3,682,981.
Dolfini, Leonardo. Method and apparatus for opening signatures. 3,661,379, 5-9-72, Cl. 270-54.000.
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Dolinski, Richard J.; De Vrieze, Jerry D.; and Nowak, Robert M., to Dow Chemical Company, The. Halogen containing esters of vinyl arylene acetic acid. 3,649,668, 3-14-72, Cl. 260-476.
Dolinski, Richard J.; Nowak, Robert M.; and Burk, George A., to Dow Chemical Company, The. Polymers of halogen containing n-alkenyl carbamates. 3,666,727, 5-30-72, Cl. 260-77.5.
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Doll, Brendan L., to Cellu Products Company. Method and apparatus for slitting sheet material. 3,703,116, 11-21-72, Cl. 83-17.000.
Doll, Henri Georges; and Broner, Hans J., to Doll Research Incorporated. Electromagnetic flowmeter. 3,659,591, 5-2-72, Cl. 128-2.05.
Doll, Martin, to Cellu Products Company. Method of producing net-like foamed thermoplastic material. 3,642,967, 2-15-72, Cl. 264-51.
Doll, Martin; and Von Drehle, Frank, to Cellu Products Company. Patient underpad. 3,670,345, 6-20-72, Cl. 5-91.000.
Doll, Martin E. Method of producing laminated stock materials and products. 3,642,550, 2-15-72, Cl. 156-78.
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Dollase, William R., to Case, J. I., Company. Differential lock with pressure modulating exhaust valve. 3,640,360, 2-8-72, Cl. 192-4.
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Dollenmayer, William L., to International Business Machines Corporation. Miniature disc dictation machine featuring integral disc storage. 3,695,741, 10-3-72, Cl. 312-10.000.
Dollgast, Walter, to Siemens Aktiengesellschaft. Method of concentrating radioactive waste. 3,679,595, 7-25-72, Cl. 252-301.10w.
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Dollman, Stephen C.: *See—*
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Dollond and Aitchison Services Ltd.: *See—*
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Dolomite Brick Corporation of America: *See—*
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Dolomont, Allan A., to Olin Mathieson Chemical Corporation. Aluminum welding wire electrode with an alumina coating containing phosphate. 3,676,309, 7-11-72, Cl. 204-27.000.
Dols, Wilhelmus Emilius Maria, to Van Der Grinten N.V. Development apparatus for electrophotographic copies. 3,673,985, 7-4-72, Cl. 118-637.000.
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Zellmer, August R.; and Tetrick, John D., 3,648,432.
Doman, Donald Wayne; and Sauey, Lawrence Kenneth, to Flambeau Plastics Corporation. Ice cube bin. 3,642,162, 2-15-72, Cl. 220-1.
Doman, Robert C.: *See—*
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Domanico, Charles J. Self-retractable hanger. 3,666,224, 5-30-72, Cl. 248-203.000.
Domann, Helmut: *See—*
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Schnaebel, Eberhard; Fleischer, Helmut; Zechnall, Richard; Domann, Helmut; Maisch, Wolfgang; and Christ, Klaus, 3,696,270.
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Domba, Elemer, to Nalco Chemical Company. Process of rindering a solid material oil and water repellent. 3,666,538, 5-30-72, Cl. 117-121.000.

Domba, Elemer, to Nalco Chemical Company. Copolymers from a polyfluoro amido silane and a polyalcohol. 3,681,266, 8-1-72, Cl. 260-2.00s.

Domba, Elemer, to Nalco Chemical Company. Chromium complexes of maleic anhydride copolymers. 3,692,747, 9-19-72, Cl. 260-78.50t.

Domba, Elemer; and Krolikiewicz, Thaddeus A., to Nalco Chemical Company. Hexafluoroisopropanol acrylamide. 3,696,081, 10-3-72, Cl. 260-78.5bb.

Domba, Elemer, to Nalco Chemical Company. Quaternary fluorsilicon dispersant. 3,700,844, 10-24-72, Cl. 260-404.500.

Dombay, Stephen, to Furniture Industry Research Association. Conditioning of wood to stabilise its colour. 3,690,922, 9-12-72, Cl. 117-57.000.

Dombeck, Edward K., to Bendix Corporation, The. Surge brake control. 3,647,032, 3-7-72, Cl. 188-112.

Dombeck, Edward K., to Bendix Corporation, The. Brake lining wear indicator. 3,662,863, 5-16-72, Cl. 188-1.

Dombro, Robert A.: *See—*
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Schmerling, Louis; and Dombro, Robert A., 3,652,684.

Dombro, Robert A., to Universal Oil Products Company. Preparation of ether esters of carboxylic acids. 3,639,456, 2-1-72, Cl. 260-484.

Dombro, Robert A., to Universal Oil Products Company. Preparation of delta valero-lactones. 3,644,426, 2-22-72, Cl. 260-343.5.

Dombro, Robert A., to Universal Oil Products Company. 1,4-Dihydroxypolyhalopolyhydro-5,8-methano-2,3-naphthalene-dicarboxylic acids and corresponding anhydrides. 3,661,937, 5-9-72, Cl. 260-346.3.

Dombroski, Edward L. Tile structure with cruciform shaped foundation supporting tiles. 3,676,971, 7-18-72, Cl. 52-603.000.

Dombroski, Frank P., to American Cyanamid Company. Inks containing naphthyl-azo-α-hydroxy-naphthoic acid pigments and method. 3,666,503, 5-30-72, Cl. 106-30.000.

Dombrowski, Theodor, to Wilhelm Hegenscheidt Kommanditgesellschaft. Apparatus for reworking wheels on a rail vehicle. 3,667,329, 6-6-72, Cl. 82-8.000.

Domburg, Gerrit: *See—*
Cardozo, Benjamin Lopes; Admiraal, Daniel Johannes Hindericus; and Domburg, Gerrit, 3,659,195.

Dome, Peter, to Societe Suisse pour l'Industrie Horlogere S.A. Variable capacitor. 3,659,165, 4-25-72, Cl. 317-249.

Dome, Peter, to Societe Suisse pour l'Industrie Horlogere S.A. Driving mechanism for electronically controlled timepiece. 3,665,697, 5-30-72, Cl. 58-23.

Dome, Peter, to Societe Suisse pour l'Industrie Horlogere SA. Date indicating mechanism for watches. 3,704,583, 12-5-72, Cl. 58-58.000.

Domek, John A., to Efdyn Corporation. Adjustable shock absorber. 3,645,365, 2-29-72, Cl. 188-285.

Domen, Steve R., to United States of America, Health, Education and Welfare. Calorimeter. 3,665,762, 5-30-72, Cl. 73-190.00r.

Domenichini, Carlo P.; and Terjenian, Leo, to Raytheon Company. Capacitive tilter for suppression of spurious electrical radiation. 3,681,652, 8-1-72, Cl. 315-85.000.

Domenico, Penelope B., to Dow Chemical Company, The. Polyhalopyridylthio-, sulfinyl- and sulfonylalkylnitriles. 3,634,436, 1-11-72, Cl. 260-294.8.

Domenico, Penelope B., to Dow Chemical Company, The. Halopyridine sulfenyl- and sulfonylhalides. 3,635,994, 1-18-72, Cl. 260-294.8.

Domenico, Penelope B., to Dow Chemical Company, The. (Thio-, sulfinyl- and sulfonyl) containing pyridine compounds. 3,639,413, 2-1-72, Cl. 260-294.8.

Domenico, Penelope B., to Dow Chemical Company, The. Polyhalo-4-nitrosopyridines. 3,651,066, 3-21-72, Cl. 260-290.

Domenico, Penelope B., to Dow Chemical Company, The. Halopyridine sulfenyl- and sulfonylhalides. 3,692,792, 9-19-72, Cl. 260-294.80g.

Domenico, Penelope B., to Dow Chemical Company, The. Certain polyhalo-4-nitor-picolinonitriles. 3,706,751, 12-19-72, Cl. 260-294.900.

Domenighetti, Domenico. Vibrations generator with multiple shafts in series, especially for vibrating tamping means. 3,668,983, 6-13-72, Cl. 94-50.

Domergue, Annick Marthe Suzanne Simone: *See—*
Mingasson, Georges Raymond Henry; Domergue, Annick Marthe Suzanne Simone; and Sureau, Robert Frederic Michel, 3,642,799.

Domergue, Annick M.S.S.: *See—*
Mingasson, Georges R. H.; and Domergue, Annick M.S.S., 3,649,633.

Domerico, Penelope B., to Dow Chemical Company, The. Substituted polyhalo-4-nitropyridines. 3,699,108, 10-17-72, Cl. 260-290.0hl.

Domian, Robert E.; and Laviolette, Paul A., to Colt's Inc. Self contained magazine. 3,665,631, 5-30-72, Cl. 42-17.

Domicone, Joseph J., to Corning Glass Works. Method of bonding glass to vinyl fabric. 3,649,443, 3-14-72, Cl. 161-193.

Domicone, Joseph J., to Corning Glass Works. Surface treatment of glass-ceramics. 3,666,559, 5-30-72, Cl. 134-3.

Domicone, Joseph J.; and Ziver, Garo M., to Corning Glass Works. Surface conditioner for glass-ceramics. 3,681,122, 8-1-72, Cl. 117-124.00f.

Domin, Daniel J.; and Duvall, Thomas E., to TMA Company. Cabinet-mounted speaker system. 3,707,201, 12-26-72, Cl. 181-31.00b.

Domin, Heinz, to Bremshey & Co., Firma. Tilting table. 3,656,439, 4-18-72, Cl. 108-113.

Domin, Siegfried: *See—*
Lewis, Martyn A.; and Domin, Siegfried, 3,665,500.

Domin, Siegfried; and Nembhard, Roy. Alarm system. 3,697,971, 10-10-72, Cl. 340-258.00c.

Domina, Edward Y. Process for the treatment of benign prostatic hypertrophy. 3,639,615, 2-1-72, Cl. 424-280.

Domine, Daniel; and Jay, Leon, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method of separation by substantially isothermal selective adsorption of a gaseous mixture. 3,638,398, 2-1-72, Cl. 55-25.

Domini, Gianfranca: *See—*
Geloso, Giovanni, 3,679,845.

Dominick, George G.; Sciacero, Rinaldo; Wimpffen, George I.; and Kardos, Theodore L. Exact fare system. 3,670,955, 6-20-72, Cl. 232-7.000.

Dominick, George G.; Sciacero, Rinaldo; Weber, Leonard J.; Wimpffen, George I.; and Kardos, Theodore Louis, to Qonaar Corporation. Cash acceptance receptacle. 3,693,870, 9-26-72, Cl. 232-16.000.

Dominick, Joseph W.; and Warthen, William P., to Deering Milliken Research Corporation. Method of coating the cut edge of a fabric. 3,632,383, 1-4-72, Cl. 117-44.

Dominion Auto Accessories Limited: *See—*
Magi, Hugo; and Smith, John, 3,651,321.
Magi, Hugo, 3,666,940.

Dominion Bridge Company Limited: *See—*
Cape, Richard Allan Gordon, 3,667,274.
Graville, Brian Anthony, 3,674,973.
Hagen, William Dobson, 3,673,658.
Horsley, Edward A., 3,657,493.
Kerkham, Algernon; and Eunson, Charles, 3,632,002.
Mutch, Robert Douglas, 3,674,302.

Dominion Engineering Works, Limited: *See—*
Rodwin, Stephen Anthony, 3,633,284.
Rodwin, Stephen Anthony, 3,668,785.
Rodwin, Stephen Anthony; and Shuffler, Eustace Cosmo, 3,694,926.
Sproule, Robert Stanley, 3,635,582.
Truxa, Leslie, 3,647,620.
Williams, Stanley C., 3,669,830.
Wood, John Frederick Barry; and Field, Michael Frank, 3,648,507.
Wood, John Frederick Barry, 3,649,091.

Dominion Envelope Company Limited: *See—*
MacDougall, Bruce A., 3,652,007.

Dominion Foundries and Steel Limited: *See—*
Dobson, Richard N.; Boyce, Kenneth E.; Gaiser, John A.; and Gris, Conrad David, 3,704,670.

Dominion Gasket & Manufacturing Co., Limited: *See—*
Nelson, Robert S., 3,666,389.

Dominion Luggage Co., Limited: *See—*
Slan, Jack, 3,694,540.

Dominy, Beryl William, to Pfizer Inc. Preparation of quinoxaline-di-N-oxides from O-quinonedioxime and butene-1,4-diones. 3,679,679, 7-25-72, Cl. 260-250.00r.

Dominy, Francis I., to Burdick Corporation, The. Cardiac monitoring apparatus for a plurality of patients. 3,648,689, 3-14-72, Cl. 128-2.06.

Domke, Klaus, to Fr. Hesser Maschinenfabrik A.G. Heat seal tool. 3,669,810, 6-13-72, Cl. 156-583.000.

Domkraft AB Nike: *See—*
Bjork, Bengt Anders, 3,687,417.

Dommasch, Daniel O., to United States of America, Federal Aviation Administration. Air data lateral-directional stability augmentation system. 3,636,324, 1-18-72, Cl. 235-150.2.

Domnick, Arno. Assemblies of inter-linked pre-fabricated members for forming a path. 3,685,403, 8-22-72, Cl. 94-13.000.

Domok, Livia, nee Kis-Vigh: *See—*

Kisfaludy, Lajos; Patthy, Agnes, nee Lukats; Dancsi, Lajos; Domok, Livia, nee Kis-Vigh; Karpati, Egon; and Szporny, Laszlo, 3,642,805.

Domokos, Jozsef; Benedek, Gyorgy; Kiss, Bela; Winkler, Laszlo; and Beller, Zoltan, to Hajtomu-es Felvonogyar. Method for coating metal workpieces with water soluble or colloidal coloring matter emulsified in water. 3,676,316, 7-11-72, Cl. 204-181.

Domovs, Kelvin B.: *See—*
Tesoro, Giuliana C.; Lee, Wing-Kai; and Domovs, Kelvin B., 3,658,791.

Domres, Franklin W. Pulp cutting and loading machine. 3,688,818, 9-5-72, Cl. 143-46.00r.

Domres, Hans Georg; Simons, Emil; and Gillhaus, Horst, to Brown, Boveri & Cie Aktiengesellschaft. Movable casting apparatus. 3,685,573, 8-22-72, Cl. 164-335.000.

Domtar Limited: *See—*
Fedosoff, Joseph P.; and Trebish, John R., 3,682,601.

Domulewicz, Raymond J., Sr. Stopper block. 3,662,986, 5-16-72, Cl. 251-144.

Domyan, Frank F.; Lantz, Joseph C.; and Sibley, Richard D. Diving helmet. 3,675,650, 7-11-72, Cl. 128-142.700.

Domyan, Frank Francis: *See—*
Keller, William Fredrick; and Domyan, Frank Francis, 3,656,592.
Keller, William Fredrick; and Domyan, Frank Francis, 3,675,538.

Don Carlos, Tex. Advertising sign. 3,634,960, 1-18-72, Cl. 40-125.

Don, Gunter, to Siempelkamp, G., & Co. Apparatus for forming a stack. 3,704,883, 12-5-72, Cl. 271-72.000.

Donadello, Graziello: *See—*
Lo Monaco, Sergio; Guerrato, Alfredo; Fabbro, Dario; and Donadello, Graziello, 3,671,493.

Donadio, Vincent J., to United States of America, Army. Flechette manufacturing machine. 3,695,310, 10-3-72, Cl. 140-71.000.

Donaghay, Richard Hugh: *See—*
Van-Essen, Christopher Geoffrey; Schulson, Erland Maxwell; and Donaghay, Richard Hugh, 3,702,398.

Donaghu, Fay J., to Kerr-McGee Chemical Corporation. Peroxygen composition containing an alkali metal silicate and an organic acid anhydride. 3,640,876, 2-8-72, Cl. 252-99.

Donahoe, Joseph F.; and Macalalad, Fidel V., to Abbott Laboratories. Manometer with sliding adjustable scale and meniscus indicator. 3,693,612, 9-26-72, Cl. 128-205.00d.

Donahue, John A.: *See—*
Minden, Henry T.; and Donahue, John A., 3,697,330.

Donahue, Leo O.; and Behrens, Roy E., to Graphic Engineering, Inc. Conveyor mechanism. 3,659,699, 5-2-72, Cl. 198-165.

Donahue, Patrick H., to Bird & Son, Inc. Building corner unit. 3,651,610, 3-28-72, Cl. 52-278.

Donahue, Stephen F.: *See—*
Urton, John T.; Glass, Max E.; Donahue, Stephen F.; and Carlson, Arthur, Jr., 3,639,577.

Donahue, William J.; Blanchard, David L.; and Wack, John M., to United States of America, Navy. Fuze arming device. 3,670,656, 6-20-72, Cl. 102-81.000.

Donald, Harold J.: *See—*
Hearns, Harold L.; and Donald, Harold J., 3,700,370.
Walles, Wilhelm E.; Caiola, Robert J.; and Donald, Harold J., 3,685,446.

Donald, Harold J.; Dewald, Carl E.; and Caiola, Robert J. Method for the vapor phase surface sulfonation of plastic webs. 3,684,554, 8-15-72, Cl. 117-47.00a.

Donald, John Henry: *See—*
Edwards, John David; Perkins, Leonard; Donald, John Henry; Chappell, Peter Lee; Newcombe, Sean Benjamin; and Roe, Malcolm David, 3,697,729.

Donald, Malcolm: *See—*
Budge, William W.; and Donald, Malcolm, 3,638,615.

Donald, Philip Joseph, to RCA Corporation. Method of pressure treating electrophotographic recording elements to change their sensitivity to light. 3,681,071, 8-1-72, Cl. 96-1.800.

Donaldson Company, Inc.: *See—*
Johnson, Lemoine L.; and Timmons, William P., 3,696,666.
Rolland, William C., 3,695,012.
Rowley, Douglas W.; and Campbell, John A., 3,672,464.
Sullivan, Bruce M.; and Kaus, Carl M., 3,672,130.

Donaldson, Darrell J.: *See—*
Beninate, John V.; Daigle, Donald J.; Drake, George L., Jr.; Reeves, Wilson A.; and Donaldson, Darrell J., 3,697,316.

Donaldson, Darrell J.; Normand, Floyd L.; and Drake, George L., Jr., to United States of America, Agriculture. Process for producing flame resistant organic textiles. 3,698,854, 10-17-72, Cl. 8-116.00p.

Donaldson, David, to Container Corporation of America. Moulded container. 3,643,855, 2-22-72, Cl. 229-2.5.

Donaldson, David. Egg carton. 3,661,320, 5-9-72, Cl. 229-44.

Donaldson, David, to Container Corporation of America. Moulded container. 3,662,943, 5-16-72, Cl. 229-2.5.

Donaldson, Desmond M., to Borg-Warner Corporation. Self-positioning baffle for shell and tube heat exchangers. 3,656,548, 4-18-72, Cl. 165-159.

Donaldson, George R.: *See—*
Williams, Archibald H.; Germanas, Dalia; and Donaldson, George R., 3,637,881.

Donaldson, George W., to Westinghouse Air Brake Company. Car propulsion scheme utilizing married pairs of propulsion units. 3,656,037, 4-11-72, Cl. 318-59.

Donaldson, Gordon W.; Graham, Charles D., Jr.; and Hart, Howard R., Jr., to General Electric Company. Superconductive magnets. 3,665,351, 5-23-72, Cl. 335-216.

Donaldson, John C., Jr., to EG & G Inc. Programmable computer-peripheral interface. 3,673,576, 6-27-72, Cl. 340-172.500.

Donaldson, John G., to Sylvania Electric Products, Inc. Localized electroplating method. 3,644,181, 2-22-72, Cl. 204-15.

Donaldson, John Taylor, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the. Reactor devices for wheeled vehicles. 3,687,315, 8-29-72, Cl. 214-86.00a.

Donaldson, Peter Eden Kirwan: *See—*
Brindley, Giles Skey; and Donaldson, Peter Eden Kirwan, 3,699,970.

Donaldson, Richard G.: *See—*
Stucky, Duane L.; Donaldson, Richard G.; and Alexander, Allen D., 3,668,397.

Donaldson, William K.; Wilke, Werner; and Fetzer, Hans. Production of coherent bodies from asbestos dispersions. 3,634,568, 1-11-72, Cl. 264-103.

Donalies, Daniel J., to Xerox Corporation. Centrifugal development apparatus and method. 3,664,297, 5-23-72, Cl. 118-627.

Donalies, Daniel J., to Xerox Corporation. Fluidized development apparatus. 3,685,486, 8-22-72, Cl. 118-637.000.

Donalson, Alton E. Plumbing grate fixture. 3,674,149, 7-4-72, Cl. 210-163.000.

Donat, Ralph J.: *See—*
Kauffman, John H.; and Donat, Ralph J., 3,635,447.

Donato, Anthony C., to Lightolier Incorporated. Multiple access electric power distribution assembly. 3,676,830, 7-11-72, Cl. 339-21.00r.

Donato, Thomas C. Fishing rod line guide and mounting. 3,702,514, 11-14-72, Cl. 43-24.000.

Donche-Gay, Pierre, to American Engineering Company Limited. Reinforcing rod machine. 3,690,349, 9-12-72, Cl. 140-63.000.

Donegan, Dennis J., to McDonnell Douglas Corporation. Window shade assembly. 3,691,686, 9-19-72, Cl. 49-56.000.

Doner, Abraham J.; deceased (by Doner, Cyril; executor), to Miles Laboratories, Inc. Sunscreen formulation containing triethanolamine neutralized 2-hydroxy-4-methoxy-benzophenone-5-sulfonic acid. 3,670,074, 6-13-72, Cl. 424-60.000.

Doner, Cyril: *See—*
Doner, Abraham J., 3,670,074.

Doner, John T., to Whirlpool Corporation. Removable door structure. 3,677,259, 7-18-72, Cl. 126-194.000.

Donham, James E., to Amoco Production Company. Reaction products of substituted imidazolines and amino tri (lower alkylidenephosphonic acids). 3,699,118, 10-17-72, Cl. 260-309.600.

Donich, Thomas G.: *See—*
Charters, Robert L.; Bartlemay, James M.; Folline, John M.; and Donich, Thomas G., 3,701,120.

Doniger, Jerry: *See—*
Pfersch, George H., Jr.; and Doniger, Jerry, 3,667,057.

Doniguian, Thaddeus M.: *See—*
Kipps, Harry J.; and Doniguian, Thaddeus M., 3,692,650.

Doniguian, Thaddeus M., to I.M.I. Division of Becton, Dickinson and Company. Fluid sensor cap assembly. 3,666,650, 5-30-72, Cl. 204-195.

Doniguian, Thaddeus M., to I.M.I.; division of Becton, Dickinson and Company. Controlled atmosphere incubator system with oxygen probe. 3,680,557, 8-1-72, Cl. 128-185.000.

Donini, Pietro, to Istituto Farmacologico Serono S.p.A. Procedure for obtaining pituitary gonadotropic hormones from urine. 3,674,865, 7-4-72, Cl. 424-99.000.

Donjon, Jacques; LePape, Auguste Raymond; and Marie, Gerard Joseph Marcel, to U.S. Philips Corporation. Optic relay for use in television. 3,637,931, 1-25-72, Cl. 178-7.5.

Donjon, Jacques, to Societe de Fabrication d'Instruments de Mesure (S.F.I.M.). Electrical signal sampling device. 3,665,496, 5-23-72, Cl. 307-251.

Donkersloot, Hendrik Cornelis; and van Vucht, Johannes Hendrikus Nicolaas, to U.S. Philips Corporation. Method of producing a basic powder for permanent magnets. 3,681,151, 8-1-72, Cl. 148-105.000.

Donlavy, Donald J.: *See—*
Sandoval, Antonio A.; and Donlavy, Donald J., 3,681,859.

Donley, Harold E., to PPG Industries, Inc. Method of forming metal oxide coatings on refractory substrates. 3,658,568, 4-25-72, Cl. 117-46.

Donley, Harold E.; Rieser, Raymond G.; and Wagner, William E., to PPG Industries, Inc. Coated glass sheet and method for making the same. 3,660,061, 5-2-72, Cl. 65-32.

Donlon, Richard H.: *See—*
Sobey, Albert J.; and Donlon, Richard H., 3,675,583.

Donlon, Richard H., to Transportation Technology, Inc. Combined peripheral jet and plenum chamber air cushion device. 3,653,458, 4-4-72, Cl. 180-124.
Donlon, Richard H., to Transportation Technology, Inc. Air bearing conveyor. 3,653,485, 4-4-72, Cl. 198-25.
Donlon, Richard H., to Transportation Technology, Inc. Transportation system having inertial switch system. 3,680,488, 8-1-72, Cl. 104-130.000.
Donn Products, Incorporated: *See—*
Downing, Lucien R., Jr.; and Mieyal, David F., 3,693,303.
Donnan, David H., to Guaranty National Bank and Trust of Corpus Christi. Holder of credit card receiving machine. 3,643,809, 2-22-72, Cl. 211-49.
Donnat, Jean-Charles: *See—*
Fresard, Marcel; and Donnat, Jean-Charles, 3,639,877.
Donnell, Derrick: *See—*
England, Michael John; Donnell, Derrick; and Hales, Eric Charles, 3,695,731.
Donnell, Howard Kenneth: *See—*
Einthoven, Willem Gerard; and Donnell, Howard Kenneth, 3,664,894.
Donnelley, Reuben H., Corporation: *See—*
Blossom, Frank M., 3,667,189.
Donnelly, Charles A.; and Sanders, James F., to Minnesota Mining and Manufacturing Company. Fixing process. 3,669,707, 6-13-72, Cl. 117-21.000.
Donnelly, Harold F., to Kimberly-Clark Corporation. Surgical drape. 3,668,050, 6-6-72, Cl. 161-39.000.
Donnelly, James F.; Gee, Wendell P.; and Phipps, Nelson S., to Jamesbury Corporation. Handle for positioning an element. 3,701,286, 10-31-72, Cl. 74-142.000.
Donnelly, William Edward: *See—*
Purdy, Don Ryall; and Donnelly, William Edward, 3,648,167.
Donnelly, William R., to Readi-Temp Inc. Heat transfer unit. 3,685,507, 8-22-72, Cl. 126-263.000.
Donnels, Wayne T., to Walker Boudwin Construction Co., Inc., The. Adjustable brace for tilt-up construction. 3,700,202, 10-24-72, Cl. 248-354.00c.
Donner, Klaus: *See—*
Wiggershaus, Fred; and Donner, Klaus, 3,696,755.
Donninger, Cyril; and Schofield, John A., to Shell Oil Company. Carbonic esters of 4-nitrophenol. 3,636,037, 1-18-72, Cl. 260-463.
Donninger, Cyril; Davies, John H.; and Davis, Royston H., to Shell Oil Company. Insecticidal composition and a method of use comprising cyanoalkylthio oxime carbamates. 3,639,620, 2-1-72, Cl. 424-304.
Donninger, Cyril; Schofield, John A.; and Hawes, John E., to Shell Oil Company. Pyridine carbamates. 3,701,779, 10-31-72, Cl. 260-294.80g.
Donnini, James M.: *See—*
United States of America, National Aeronautics and Space Administration, 3,659,043.
Donofrio, Nicholas M.; and Pomeranz, Jehoshua N., to International Business Machines Corporation. Monolithic memory sense amplifier/bit driver. 3,676,704, 7-11-72, Cl. 307-235.000.
Donofrio, Nicholas M.; and Linton, Richard H., to International Business Machines Corporation. A.C. stable storage cell. 3,706,891, 12-19-72, Cl. 307-238.000.
Donofrio, Robert L.; and Rehkopf, Charles H., to GTE Sylvania Incorporated. Process of forming cathode ray tube screens to utilize the luminous efficiency of the phosphor material. 3,697,301, 10-10-72, Cl. 117-33.50c.
Donoghue, William J., to United States of America, Air Force, mesne. COS/MOS phase comparator for monolithic integration. 3,673,430, 6-27-72, Cl. 307-232.000.
Donoghue, William James, to RCA Corporation. Signal generating circuit including a pair of cascade connected field effect transistors. 3,697,777, 10-10-72, Cl. 307-228.000.
Donohoe, John W.: *See—*
Foret, Pierre G.; and Donohoe, John W., 3,689,065.
Donohoo, Daniel J., to Dantronics Inc. Modulated on to off ratio pulse controlled digital to analog converter. 3,646,460, 2-29-72, Cl. 329-102.
Donohoo, Daniel J., to Dantronics Inc. Communication system using the electrical power distribution network of a building. 3,659,280, 4-25-72, Cl. 340-310.
Donohue, James M.: *See—*
Gerbasi, Dennis P.; and Donohue, James M., 3,641,979.
Donohue, James M.; and Gerbasi, Dennis P., to Xerox Corporation. Toner reclaiming system. 3,654,901, 4-11-72, Cl. 118-637.
Donohue, James P.; Bange, Donald A.; and Miyata, John J., to National Cash Register Company, The. Three pole tip read after write transducer. 3,653,011, 3-28-72, Cl. 340-174.1.
Donohue, Paul Christopher, to Du Pont de Nemours, E. I., and Company. Chromium and molybdenum tetraphosphides having isotopic, monoclinic crystal structures. 3,634,335, 1-11-72, Cl. 252-518.
Donohue, Robert J.; and Joseph, Bernard W., to General Motors Corporation. Faceted reflector for lighting unit. 3,700,883, 10-24-72, Cl. 240-41.360.
Donohue, Thomas W.; Murphy, John Brian; and Bissett, Thomas B., to Bissett-Berman Corporation, The. Temperature monitoring apparatus. 3,688,296, 8-29-72, Cl. 340-228.00r.
Donoski, Paul J.: *See—*
Tucker, Henry G.; and Donoski, Paul J., 3,695,247.
Donovan, Daniel J.: *See—*
Card, Charles E., Jr.; Donovan, Daniel J.; and Sweeney, William G., 3,684,817.
Donovan, Glenn R., to Smith, A. O., Corporation. Coil transfer apparatus. 3,689,976, 9-12-72, Cl. 29-205.00d.
Donovan, Howard Gleason, to Johns-Manville Corporation. Apparatus and process for suspending solids. 3,701,484, 10-31-72, Cl. 241-5.000.
Donovan, John C.: *See—*
Strawn, Charles F.; and Donovan, John C., 3,636,444.
Donovan, Lawrence E., to General Electric Company. 2-Transistor saturating core high-voltage inverter. 3,702,963, 11-14-72, Cl. 321-2.000.
Donovan, Ross Grant; and Wolf, Stewart Franklin, to Canada Packers Limited. Process for the enzymic unhairing of hides. 3,679,548, 7-25-72, Cl. 195-6.000.
Donovan, Timothy F.; and Ryan, William P., to Mite Corporation. Keyboard operated transmitter. 3,651,260, 3-21-72, Cl. 178-17.
Donselman, Edward H., to Westinghouse Electric Corporation. Free standing appliance with break-open door. 3,639,025, 2-1-72, Cl. 312-276.
Donskaya, Marina Maiorovna: *See—*
Gridunov, Ivan Tikhonovich; Unkovsky, Boris Vladimirovich; Donskaya, Marina Maiorovna; Andreev, Leonid Vladimirovich; Korolkova, Galina Sergeevna; Ignatova, Ljudmila Alexandrovna; and Grigorian, Alexandr Grigorievich, 3,681,278.
Dontas, Vassilios K. Spring retractable car key. 3,672,192, 6-27-72, Cl. 70-414.000.
Dontigny, Rene. Folding camper trailer. 3,694,022, 9-26-72, Cl. 296-23.00r.
Doo, Ven Y.; Regh, Joseph; and Seto, David K., to International Business Machines Corporation. Photolithographic masks of semiconductor material. 3,701,659, 10-31-72, Cl. 96-38.300.
Doocey, Robert J.: *See—*
Walters, William D.; and Doocey, Robert J., 3,652,175.
Dooley, Gerald F., to North Electric Company. Digital pulse transmission through an analog TDM switching system. 3,652,800, 3-28-72, Cl. 179-15.
Dooley, James A.: *See—*
Dills, Raymond L.; and Dooley, James A., 3,686,477.
Dooley, James L., to McCulloch Corporation. Re-entry type integrated gas turbine engine and method of operation. 3,685,287, 8-22-72, Cl. 60-39.020.
Dooley, James Linville; and Harasta, Clarence John, to McCulloch Corporation. Automatic system for spring starting an internal combustion engine. 3,692,010, 9-19-72, Cl. 123-185.000.
Dooley, John. Ventilated water closets automatically affording protection of its ventilating means from water damage. 3,681,790, 8-8-72, Cl. 4-216.000.
Dooley, John F. Golf photography dart board game including scene changing means. 3,697,073, 10-10-72, Cl. 273-95.00r.
Doolittle, Donald B.: *See—*
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Draper, Alexander. Cooking package for freeze-dried eggs. 3,689,291, 9-5-72, Cl. 99-177.000.

Draper, Ernest William. Motor vehicle unauthorized tampering alarm system. 3,649,961, 3-14-72, Cl. 340-64.

Draper, Homer L., to Phillips Petroleum Company. Polyolefin fibers impregnated with asphaltite and asphalt. 3,632,418, 1-4-72, Cl. 117-138.

Draper, Homer L.; and Gagle, Duane W., to Phillips Petroleum Company. Liquid impounding structure. 3,680,319, 8-1-72, Cl. 61-30.000.

Draper, James Krishen; and Chick, David Michael, to International Computers Limited. Field effect transistor switching arrangement for amplifying only low level signals. 3,671,779, 6-20-72, Cl. 307-251.000.

Draper, Neal M. Method of making laminar garment by autogenous bonding of continuous webs. 3,644,157, 2-22-72, Cl. 156-160.

Drapkin, William, to Slater Electric Inc. Ground contact for receptacle. 3,639,883, 2-1-72, Cl. 339-14.

Drapkin, William, to Slater Electric Inc. Grounding connection for wiring device. 3,639,884, 2-1-72, Cl. 339-14.

Drapkin, William, to Slater Electric Inc. Weatherproof electrical outlet box and receptacle. 3,639,886, 2-1-72, Cl. 339-36.

Drapkin, William, to Slater Electric Inc. Pressure lock and release terminal for an electrical receptacle. 3,671,925, 6-20-72, Cl. 339-95.00d.

Drapkin, William B., to Kulka Electric Corporated. Terminal junction. 3,697,935, 10-10-72, Cl. 339-217.

Drasner, Joseph, to Dow Chemical Company, The. Chlorinated polyethylene-organic polyisocyanate adhesive for laminating chlorinated polyolefin film or sheet materials to fabric. 3,674,597, 7-4-72, Cl. 156-331.000.

Drathschmidt, Carl J. Instant operating coilless relay. 3,676,816, 7-11-72, Cl. 337-134.000.

Draugelis, Vaidevutis C.: *See—*
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Draughon, Roland C.; Jensen, Paul D.; and Jensen, Donald F. Concrete plank molding machine. 3,664,792, 5-23-72, Cl. 25-41.

Draux, Marcel M. Therapeutic table. 3,638,646, 2-1-72, Cl. 128-33.

Draving, Robert C.: *See—*
Draving, Walter J.; and Draving, Robert C., 3,694,913.

Draving, Walter J.; and Draving, Robert C., to Micro-Miniature Parts Corporation. Method for wiring core memory cores. 3,694,913, 10-3-72, Cl. 29-604.000.

Dravo Corporation: *See—*
Allison, Robert J.; Hatfield, Paul E.; and Frumerman, Robert, 3,669,623.
Anthes, John A.; and Vlnaty, Joseph, 3,635,456.
Coulter, Stanley M.; and Mevissen, Ernst A., 3,679,195.
McLean, William B.; and Naruns, Laimons, 3,653,486.
Mevissen, Ernst A.; and Coulter, Stanley M., 3,653,648.
Mevissen, Ernst A.; and Coulter, Stanley M., 3,653,649.
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Drawert, Manfred: *See—*
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Drawn & Rolled Sections Limited: *See—*
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James, David, 3,650,144.

Drawsky, Ronald H., to Kaiser Aluminum & Chemical Corporation. Slotted flooring. 3,680,530, 8-1-72, Cl. 119-28.000.

Dray, James F., to United States of America, Navy. Piston type thrust bearing. 3,700,293, 10-24-72, Cl. 308-9.000.

Dray, Robert F.; and Lawrence, Donald L., said Dray assor. to Feed Screws, Inc. and said Lawrence assor. to Owens-Illinois, Inc. Apparatus for extruding plastic material. 3,650,652, 3-21-72, Cl. 18-12.

Drayton, Walker E., to American Chain & Cable Company, Inc. Hook for load carrying device. 3,633,960, 1-11-72, Cl. 294-75.

Drayton, Walker E., to American Chain & Cable Company, Inc. Energy absorbing tie-down winch. 3,679,175, 7-25-72, Cl. 254-51.000.

Drazick, Herman J. Latch assembly for mold bases. 3,706,116, 12-19-72, Cl. 24-130.0av.

Dreamland Electrical Appliances Limited: *See—*
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Dreannan, Wendell M., to Arkla-Industries, Inc. Split gas burner. 3,638,635, 2-1-72, Cl. 126-41.

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Drechsel, Erhart K.; Sardisco, John B.; and Stewart, James R., Jr., to Pennzoil United, Inc. Potassium phosphate manufacture. 3,697,246, 10-10-72, Cl. 71-34.000.

Drechsel, Herbert; Rowedder, Gustav; Dorr, Karl-Heinz; and Grimm, Hugo, to Metallgesellschaft Aktiengesellschaft. Process for the catalytic conversion of SO_2 to SO_3 with production of sulfuric acid. 3,656,900, 4-18-72, Cl. 23-168.

Drechsler, Rudolph Charles, to Bell Telephone Laboratories, Incorporated. Apparatus for generating a logarithmically related series of digitally coded signal quantities. 3,698,631, 10-17-72, Cl. 235-152.000.

Dreckmann, Hubert; Wilson, Charles B.; and Wagenblast, Richard K., to Hays Corporation, The. Magnetic non-contact thickness gauge with means to compensate the effects of stray fields on the gauge. 3,696,290, 10-3-72, Cl. 324-34.0tk.

Dreger, Erich A. Abrasive plumber's tool. 3,638,367, 2-1-72, Cl. 51-392.

Drehe, John L.: *See—*
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Dreher, Albert H.: *See—*
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Dreher, Edward J. Preformed wall section molding apparatus. 3,642,395, 2-15-72, Cl. 425-109.

Dreher, Hans C., to General Cigar Co., Inc. Quick-return severing device for a moving continuous rod. 3,686,989, 8-29-72, Cl. 83-320.000.

Dreher, Karl D.: *See—*
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Dreher, Karl D.; and Sydansk, Robert D., to Marathon Oil Company. Inhibiting salt water intrusion into fresh water aquifers. 3,642,067, 2-15-72, Cl. 166-275.

Dreher, Karl D.; and Holmes, Michael, to Marathon Oil Company. Wettability control in an oil recovery process. 3,643,738, 2-22-72, Cl. 166-252.

Dreher, Robert F.; and Dreher, Albert H. Livestock water tank water temperature control apparatus. 3,636,312, 1-18-72, Cl. 219-523.

Drehman, Lewis E.: *See—*
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Drehman, Lewis E.; and Walker, Darrell W., to Phillips Petroleum Company. Catalytic dehydrogenation process. 3,670,044, 6-13-72, Cl. 260-683.3.

Dreibelbis, Richard C.; and Turner, Warren E., to Delta-T-Inc. Means for storing and dispensing heated liquid and system therefor. 3,642,176, 2-15-72, Cl. 222-146.

Dreibelbis, Richard C., to Carrier Corporation. Air distribution unit. 3,653,588, 4-4-72, Cl. 236-49.

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Dreier, Raymond C. Adjustable handsaw construction. 3,672,418, 6-27-72, Cl. 145-34.00r.

Dreier, Raymond C. Blade holder. 3,702,627, 11-14-72, Cl. 145-33.00a.

Dreifus, Harry, to Hooker Chemical Corporation. Method for purifying cyclic phosphonitrilic chlorides. 3,694,171, 9-26-72, Cl. 423-300.000.

Dreimanis, Herbert V.; Spisz, Albert S.; Merlino, Eugene L., Jr.; and Ellis, Jonas, to Burroughs Corporation. Document elevation apparatus for a strip printer. 3,664,481, 5-23-72, Cl. 197-133.

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Dreisin, Alexander, to Allis-Chalmers Manufacturing Company. Multiple plunger fuel injection pump. 3,667,437, 6-6-72, Cl. 123-139.

Dreisin, Alexander, to Allis-Chalmers Manufacturing Company. Fuel injection pump timing and metering arrangement. 3,673,996, 7-4-72, Cl. 123-139.0ap.

Dreismann, Robert: *See—*
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Dreissen, Hubert H.: *See—*
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Drejza, John E.; Henkel, Michael A.; and Morgan, William F., to International Business Machines Corporation. Print type carrier. 3,638,565, 2-1-72, Cl. 101-111.
Drejza, John E., to International Business Machines Corporation. Print hammer control means for pivotally mounted type members. 3,640,217, 2-8-72, Cl. 101-93.
Drelich, Arthur H.; and Condon, Patricia M., to Johnson & Johnson. Adhesive composition. 3,639,327, 2-1-72, Cl. 260-29.6.
Drelich, Arthur H., to Johnson & Johnson. Shaped articles having improved surface properties and corona discharge methods and apparatus for making the same. 3,661,735, 5-9-72, Cl. 204-165.
Drelich, Arthur H.; and Bowman, Bobby R., to Johnson & Johnson. Shaped articles having enhanced surface bonding and adhesion properties and improved elongation characteristics. 3,692,653, 9-19-72, Cl. 204-165.000.
Drelich, Arthur H.; and Bowman, Bobby R., to Johnson & Johnson. Method of applying a resin binder to a substrate. 3,706,595, 12-19-72, Cl. 117-38.000.
Drelich, Arthur Herbert, to Johnson & Johnson. Composition containing metal salts and method of utilizing the same to control resin deposition. 3,649,330, 3-14-72, Cl. 117-38.
Drelicharz, Joseph A. Fluked core retainer. 3,647,009, 3-7-72, Cl. 175-242.
Drelicharz, Joseph A., to United States of America, Navy. Light weight pallet construction. 3,704,673, 12-5-72, Cl. 108-53.000.
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Plotnikoff, Nicholas Peter; Dren, Anthony Thomas; and Jochimsen, William George, 3,706,831.
Drenning, John F.: *See—*
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Dreps, James R.; and Miller, Ira H., to Owens-Illinois, Inc. Dispensing container and closure. 3,653,559, 4-4-72, Cl. 222-545.
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Dresden, Du Wayne D., to General Motors Corporation. Swivel seat locking mechanism. 3,659,895, 5-2-72, Cl. 296-65.
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Germain, Andrew G.; and Dressel, William G., 3,684,004.
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Bissell, Robert D., 3,641,820.
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Burleson, E Richard; and Davis, Carl H., 3,670,880.
Conn, William M., 3,659,660.
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Janssen, Herman W., 3,660,755.
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Jones, William P., 3,666,555.
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Nelson, Dana W., 3,655,944.
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Petrey, Ernest Q., Jr., 3,699,047.
Petrey, Ernest Quentin, Jr.; and Werner, Ronald M., 3,699,052.
Silverstein, Ronald M., 3,687,859.
Drew, Dennis H.; and Hecht, Paul F. Safety container. 3,669,296, 6-13-72, Cl. 215-9.000.
Drew, Gene R., to United States of America, Navy. Slug throwing deployment apparatus. 3,646,847, 3-7-72, Cl. 89-1.
Drew, Harold E.: *See—*
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Drew, William G. Powered lid orientor. 3,682,292, 8-8-72, Cl. 198-33.0ad.
Drewry, Hugh S., to Allis-Chalmers Manufacturing Company. Apparatus for and method of controlling rotary kiln operation. 3,647,195, 3-7-72, Cl. 263-33.
Drewry Photocolor Corporation: *See—*
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Drews, Harvey J.; and Raffensperger, Stanley P., to White Lily Foods Company, The, mesne. Packaged mixes for flavored food products and the process of making them. 3,671,264, 6-20-72, Cl. 99-94.000.
Drews, Reinhold A.: *See—*
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Drews, Reinhold A.; and Grau, Julius J., to Whirlpool Corporation. Caster jack mechanism for portable appliances. 3,635,491, 1-18-72, Cl. 280-43.14.
Drexel, Charles F., to Tylan Corporation. Fluid flow measuring system. 3,650,151, 3-21-72, Cl. 73-194.
Drexel, Charles F., to Tylan Corporation. Thermal valve. 3,650,505, 3-21-72, Cl. 251-11.
Drexel Dynamics Corporation: *See—*
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Maltby, Frederick L., 3,706,980.

Drexler, Karl F.; and Gibbs, Edward E., to General Electric Company. Flexible support structure for end winding connections. 3,691,416, 9-12-72, Cl. 310-260.000.

Drexler, Karl F.; and Kudlacik, Henry W., to General Electric Company. Internal static excitation system for a dynamoelectric machine. 3,702,965, 11-14-72, Cl. 322-25.000.

Drexler, Rodger A.; and Altmann, Conrad, to Eastman Kodak Company. Method for development of electrostatic images. 3,703,395, 11-21-72, Cl. 117-17.500.

Dreyer, Allen E., to Universal Research Company. Puzzle. 3,690,672, 9-12-72, Cl. 273-155.000.

Dreyer, Hans, to General Motors Corporation. Adjustable steering column for motor vehicles. 3,693,997, 9-26-72, Cl. 280-87.00a.

Dreyer, John F., to Polacoat, Inc. Method of making light polarizing patterns. 3,658,616, 4-25-72, Cl. 156-234.000.

Dreyer, Paul E. Sheet feed press for printing small size sheets on both sides simultaneously. 3,690,253, 9-12-72, Cl. 101-217.000.

Dreyer, Robert N.: *See—*
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Phillips, Michael; and Jurow, Victor A., 3,706,419.

Dreyfus, Russell W., to International Business Machines Corporation. Storage tube with pointwise erase capability. 3,657,709, 4-18-72, Cl. 340-173.

Dreyling, Alfred P.; and Dreyling, Lewis J., to Quigley Company, Inc. Refactory composition. 3,656,977, 4-18-72, Cl. 106-55.

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Drieze, Hieronimus Robert. Container with a fixed number of elements. 3,685,201, 8-22-72, Cl. 46-26.000.

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Drinkard, B. M.; Allen, Paul T.; and Unger, Edward H., to Mobil Oil Corporation. Separation of C_8 aromatics mixture with production chromatography. 3,653,184, 4-4-72, Cl. 55-67.

Drinkard, B. M.; Allen, Paul T.; and Unger, Edward H., to Mobil Oil Corporation. Gas chromatographic separation of aromatic mixtures. 3,656,278, 4-18-72, Cl. 55-67.

Drinkard, Gary: *See—*
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Drinkard, William C., Jr.; and Lindsey, Richard V., to Du Pont de Nemours, E. I., and Company. Hydrides of nickel coordination compounds. 3,676,475, 7-11-72, Cl. 260-439.00r.

Drinkard, William C., Jr.; and Taylor, Brian William, to Du Pont de Nemours, E. I., and Company. Hydrocyanation of olefins. 3,694,485, 9-26-72, Cl. 260-465.80r.

Drinkard, William Charles, Jr., to Du Pont de Nemours, E. I., and Company. Hydrocyanation of olefins. 3,655,723, 4-11-72, Cl. 260-465.3.

Driole, Jean: *See—*
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Driscoll, David M. Signaling and indicating system. 3,668,640, 6-6-72, Cl. 340-167.00b.

Driscoll, Gary L.: *See—*
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Driscoll, Gary L., to Sun Oil Company. Preparation of oils from isobutene. 3,655,808, 4-11-72, Cl. 260-683.15.

Driscoll, Gary L.; and Kerr, David L., to Sun Oil Company. Oligimerization of isobutene and methylstyrene. 3,657,369, 4-18-72, Cl. 260-669.

Driscoll, Gary L., to Sun Oil Company. Unsaturated polyesters prepared from α,α, dimethyl muconic acids. 3,671,572, 6-20-72, Cl. 160-485.00g.

Driscoll, Gary L., to Sun Research and Development Company. Phosphorus compound promoted oligomerization of isobutene. 3,707,582, 12-26-72, Cl. 260-683.15b.

Driscoll, Hiram E., to Hercules Incorporated. Electric initiators for high energy firing currents. 3,683,811, 8-15-72, Cl. 102-28.000.

Driscoll, James A. Outboard motor stabilizer. 3,693,576, 9-26-72, Cl. 115-41.00r.

Driscoll, James E. Gauge for placing golf ball tees. 3,658,331, 4-25-72, Cl. 273-33.

Driscoll, John J., to Allied Research Associates, Inc. Bullet trap. 3,664,263, 5-23-72, Cl. 102-65.2.

Driscoll, John Joseph, to Bell Telephone Laboratories, Incorporated. Precessed pulse test arrangement. 3,634,633, 1-11-72, Cl. 179-175.2.

Driscoll, Michael M.: *See—*
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Driscoll, Patrick R.; and Kaufman, Harold A., to Mobil Oil Corporation. N-benzothienylchloroacetamides. 3,636,050, 1-18-72, Cl. 260-330.5.

Driscoll, Patrick R., to Mobil Oil Corporation. 3-Thiadiazolyltetrahydro-1,3,5-oxadiazin-4-ones. 3,655,659, 4-11-72, Cl. 260-244.

Driscoll, Patrick R., to Mobil Oil Corporation. Use of pyridylthiuronium salts as fungicides. 3,655,898, 4-11-72, Cl. 424-263.

Driscoll, Richard E., to Cities Service Company. Process for wet pelletizing carbon black. 3,636,188, 1-18-72, Cl. 264-117.

Driscoll, Richard E., to Cities Service Company. Manufacture of pigmentary silica. 3,660,025, 5-2-72, Cl. 23-182.

Driscoll, Richard E., to Cities Service Company. Hydrolysis of silicon tetrafluoride. 3,661,519, 5-9-72, Cl. 23-182.

Driscoll, Richard E.; and DeCuir, George L., to Cities Service Company. Generation of silicon tetrafluoride. 3,674,431, 7-4-72, Cl. 23-205.000.

Driscoll, Rosemary F. Laundering clasp. 3,673,639, 7-4-72, Cl. 24-16.0pb.

Driscoll, Vance J., to Amoco Production Company. Multiple producing intervals to suppress coning. 3,638,731, 2-1-72, Cl. 166-314.

Driskell, Carl R., to United States of America, Navy. Periscope stadimeter simulator with camera sweep delay. 3,671,391, 6-20-72, Cl. 178-6.800.

Driskell, Carl R., to United States of America, Navy. Submerged periscope simulator. 3,698,102, 10-17-72, Cl. 35-25.000.

Driskill, Robert E. Auxiliary electrical generating system for jet aircraft. 3,662,975, 5-16-72, Cl. 244-58.

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Drislane, Cornelius J., to Raytheon Company. Antenna slew system. 3,646,564, 2-29-72, Cl. 343-766.

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Du Pont, Paul R., to Thermoplastic Processes Inc. Fluorescent lamp protection apparatus. 3,673,401, 6-27-72, Cl. 240-11.400.

Du Rocher, Gideon A., to Essex International, Inc. Current control apparatus and methods of manufacture. 3,648,002, 3-7-72, Cl. 200-166.

Du Rocher, Gideon A.; and Miller, Ellsworth S., to Essex International, Inc. Connector for electrical terminals. 3,701,965, 10-31-72, Cl. 339-60.00m.

Du Rocher, Gideon A., to Essex International, Inc. Thermally sensitive circuit control apparatus. 3,707,694, 12-26-72, Cl. 337-139.000.

Du Rose, Arthur H.; and Stern, Robert L., to Kewanee Oil Company. Alkaline nickel plating solutions. 3,634,210, 1-11-72, Cl. 204-49.

Du Ross, James W.; and Lensack, Gabriel P., to Atlas Chemical Industries, Inc. Surfactant composition for frozen confections. 3,647,477, 3-7-72, Cl. 99-136.

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Dubach, Paul. Process for permanently crimping yarn and the like. 3,678,142, 7-18-72, Cl. 264-25.

Dubble, Roger D.: *See—*
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Dube, Milford J.; and Semrow, Robert A., to Ney, J. M., Company, The. Slip ring assembly. 3,686,514, 8-22-72, Cl. 310-232.000.

Dube, Victor J.; Thoma, Paul E.; and Kao, Jao Shiun, to Johnson Service Company. Bi-material condition sensing means. 3,665,765, 5-30-72, Cl. 73-337.

Dubeck, Michael; and Brackenridge, David R., to Ethyl Corporation. Olefin dimerization. 3,647,883, 3-7-72, Cl. 260-683.15.

Dubeck, Michael; and Shubkin, Ronald L., to Ethyl Corporation. Preparation of carboxylic acids. 3,678,083, 7-18-72, Cl. 260-413.

Duben, Franklin T., to Honeywell Information Systems Inc. Memory cell with voltage limiting at transistor control terminals. 3,703,711, 11-21-72, Cl. 340-173.0ff.

Dubernet, Robert; and Sabatie, Michele, to Societe Nationale Industrielle Aerospatiale. Multiconductor stranded remote-control cable. 3,676,576, 7-11-72, Cl. 174-113.00r.

Dubey, William B., to Alford Industries Incorporated. Paperboard container. 3,638,850, 2-1-72, Cl. 229-33.

Dubini, Mario; and Montino, Franco, to Montecatini Edison S.p.A. Process for preparing methyl hexadienoates. 3,661,979, 5-9-72, Cl. 260-486.

Dubinsky, Rudolf Solomonovich: *See—*
Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexandr; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikailovich; Shevisov, Anatoly Ivanovich; Grinsnpon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexandr Mikhaivich, 3,687,188.

Dubinsky, Terence N., to Case, J. I., Company. Hydrostatic bearing. 3,671,155, 6-20-72, Cl. 418-73.

Dubinsky, Vladimir Alexandrovich; and Mats, Veniamin Mikhailovich. Storage premises for storing piece articles. 3,633,769, 1-11-2, Cl. 214-16.4.

Dubner, Ben B. Automatic retracting hypodermic syringe. 3,669,111, 6-13-72, Cl. 128-218.00p.

Dubner, Harvey, to Baxter Corporation, The, mesne. Method and apparatus for producing jacquard cards. 3,671,944, 6-20-72, Cl. 340-172.500.

Dubois, Andre, to Compagnie Generale d'Electricite. Magneto-optically controlled ionization tube. 3,633,067, 1-4-72, Cl. 315-149.

DuBois, Bert, to Tenneco Inc. Acoustic conduit with wrinkle section. 3,655,010, 4-11-72, Cl. 181-36.

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Dubois, Gerald. Timer. 3,688,491, 9-5-72, Cl. 58-74.000.

Dubois, Gerald, to Mingard, Marcel. Timepiece having oscillating rotating indicator. 3,696,609, 10-10-72, Cl. 58-125.00r.

Dubois, Joseph W., to North American Rockwell Corporation. Yarn piecing device. 3,691,744, 9-19-72, Cl. 57-34.00r.

Dubois, Michel A. Machine for digging underground galleries. 3,663,054, 5-16-72, Cl. 299-18.

Dubois, Robert: *See—*
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Dubreuil, Philip B.; Bartok, Stephen; and Crawford, William R., to Mattel, Inc. Wire bending device. 3,672,408, 6-27-72, Cl. 140-102.000.

Dubsek, Frantisek; Tomes, Vaclav; Nigrin, Mojmir; and Sobotka, Jiri, to Prvni brnenska Strojirna Zavody Klementa Gottwalda, narodni podnik. Storage tank for liquid metal. 3,635,286, 1-18-72, Cl. 165-108.

Dubuc, Rene A.; White, Sheldon S.; and Willoughby, Joseph A., to Texas Instruments, Incorporated. Electrical contact having a head sink layer. 3,686,457, 8-22-72, Cl. 200-166.00c.

DuBuis, Edwin O.; and Bayer, Carl, Jr., to Mohawk Data Sciences Corporation. Light conducting member for photoelectric code sensor. 3,643,103, 2-15-72, Cl. 250-227.

Dubuit, Louis Gilbert. Automatic machine for silk-screen printing on filled bottles of flexible material with flat faces. 3,659,522, 5-2-72, Cl. 101-35.

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Duc, Xuong Nguyen; and Bonnamy, Jean Marc, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for laying submarine cables and pipes in areas covered with ice. 3,681,927, 8-8-72, Cl. 61-72.100.

Ducamus, Jean Matital; and Fernandez, Claude-Jane, to U.S. Philips Corporation. Four-phase delay element. 3,676,709, 7-11-72, Cl. 307-279.000.

Ducasse, Viateur. Excess smoke eliminating system for boilers. 3,701,622, 10-31-72, Cl. 431-76.000.

Duchane, David V., to Kimberly-Clark Corporation. Flushable wrapper for absorbent pads. 3,654,928, 4-11-72, Cl. 128-290.

Duchane, David V., to Kimberly-Clark Corporation. Method for fabricating improved flushable wrappers for absorbent pads and product obtained thereby. 3,689,314, 9-5-72, Cl. 117-140.00a.

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Duchesneau, Jerome G.; and Schwartz, Robert A., to United Aircraft Corporation. Proportional pressure difference actuator. 3,668,349, 6-6-72, Cl. 200-82.00r.
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Duck, Sherman W., to Bell & Howell Company. Magnetic deformation recording. 3,683,405, 8-8-72, Cl. 346-74.0tp.
Duck, Wolfgang; deceased (by Duck, Hertha; heir), to Siemens Aktiengesellschaft. Connection arrangement for a telephone microphone amplifier with power supply connected to the output side of the amplifier. 3,668,320, 6-6-72, Cl. 179-1.00a.
Duck, Wolfgang; deceased (by Duck, Hertha; heir). Circuit arrangement for a difference amplifier in integrated construction. 3,684,973, 8-15-72, Cl. 330-30.00d.
Duckett, John W.; Brooks, Edward A.; and Reynolds, Clarke, to American Molded Products, Ltd. Self-righting road delineator. 3,705,566, 12-12-72, Cl. 116-63.00p.
Duckhinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosifovich; Anikanov, Nikolai Ivanovich; and Grachev, Leonid Palovich, to Izdatelstvo "Izvestia". Apparatus for wrapping articles with wrapping material. ,683,586, 8-15-72, Cl. 53-228.000.
Ducksbury, Alfred N.; and Telford, Bruce C., to Eastman Kodak Company. Method and cell for repetitive high precision pH and like measurements. 3,681,205, 8-1-72, Cl. 204-1.00t.
Duckwall, Frank E.; and Labelle, Edward J., to Textron, Inc. Ophthalmic lens series. 3,645,610, 2-29-72, Cl. 351-159.
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Ducousset, Robert Eugene Raymond; Larmurier, Claude Fernand Emile; and Rolland, Jean-Noel Gaston Andre, to Compagnie des Compteurs. Fluid impact deflector amplifier. 3,631,875, 1-4-72, Cl. 137-81.5.
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Ducrot, Alain Jean Edmond; Poulain, Jacques Constant; Pavon, Miguel Sancho; and Turpin, Michel Louis, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation and Association pour la Recherche et le Developpement des Methodes et Processus Indutriels A.R.M.I.N.E.S. Treatment of articles having metallic core with boron coating. 3,694,333, 9-26-72, Cl. 204-140.000.
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Duffy, Arthur R.: *See—*
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Duffy, Daniel P., to Schultz, Robert S. Child resistent safety closure and container. 3,684,116, 8-15-72, Cl. 215-9.000.

Duffy, Edward J. Portable height and depth setting gauge. 3,664,031, 5-23-72, Cl. 33-185.

Duffy, Francis M. Method and preparation for treatment of carcinoma. 3,655,873, 4-11-72, Cl. 424-93.

Duffy, Gregory A. Chemical milling process. 3,647,584, 3-7-72, Cl. 156-11.

Duffy, James J., to Ford Motor Company. Fluid control valve for a hydrostatic power boosting mechanism for an automotive steering gear. 3,667,346, 6-6-72, Cl. 91-375.00a.

Duffy, James J., to Ford Motor Company. Pressure distributor valve construction for power steering gear mechanisms. 3,672,259, 6-27-72, Cl. 91-382.000.

Duffy, James V.: *See—*
Augl, Joseph M.; and Duffy, James V., 3,654,226.

Duffy, James V.; and Erickson, Porter W., to United States of America, Navy. Depotting solvent. 3,706,691, 12-19-72, Cl. 252-364.000.

Duffy, Joseph J.; and Sims, Stuart Donald, to Hadron, Inc. Thermometer trimming method and apparatus. 3,641,307, 2-8-72, Cl. 219-121.

Duffy, Joseph J.; and Dunbar, Alexander S., to Hadron Inc. Segmented laser apparatus and method of making the same. 3,696,308, 10-3-72, Cl. 331-94.500.

Duffy, Laurence Sidney, to Kent, George, Limited. Measurement of fluid flow. 3,636,767, 1-25-72, Cl. 73-229.

Duffy, Michael C.; Schumann, Paul A., Jr.; and Yeh, Tsu-Hsing, to International Business Machines Corporation. Method of making or modifying a PN junction by ion implantation. 3,655,457, 4-11-72, Cl. 148-1.5.

Duffy, Michael C.; and Hudson, Richard L., to International Business Machines Corporation. Method of determining impurity profile of a semi-conductor body. 3,660,250, 5-2-72, Cl. 204-1.

Duffy, Michael Thomas, to RCA Corporation. MOS transistor with aluminum oxide gate dielectric. 3,702,786, 11-14-72, Cl. 117-212.000.

Duffy, Philip A., Jr.: *See—*
Siedband, Melvin P.; Duffy, Philip A., Jr.; and James, Jack L., 3,675,020.

Duffy, Philip A., Jr.; and Siedband, Melvin P., to CGR Medical Corporation, mesne. Pulsed X-ray control system with improved film darkening. 3,633,029, 1-4-72, Cl. 250-65.

Duffy, William, to Wiss, J., & Sons Co. Scroll shears or the like. 3,678,580, 7-25-72, Cl. 30-267.000.

Duffy, William; and Students, John, to Wiss, J., & Sons Co. Cutting implement or tool with blade tensioning device. 3,683,497, 8-15-72, Cl. 30-228.000.

Duffy, William B.; and Fisher, Charles K., to TRW Inc. Rotatable nut and washer assembly. 3,659,491, 5-2-72, Cl. 85-32.

Duffy, William B., to TRW Inc., mesne. Sheet metal panel fastener. 3,675,958, 7-11-72, Cl. 287-189.36d.

Dufour, Charles H., to Harris-Intertype Corporation. Balanced folder assembly. 3,632,104, 1-4-72, Cl. 270-33.

Dufour, Jacques; Perroud, Paul H.; Petres, Jacques; and Rebiere, Jean. Temperature-measuring device. 3,691,840, 9-19-72, Cl. 73-349.000.

Dufour, Raymond J.; and Grimm, James J., to Northern Illinois Gas Company. Internal pipe sealing system. 3,678,560, 7-25-72, Cl. 29-235.000.

Dufour, Raymond J.; and Grimm, James J., to Northern Illinois Gas Company. Internal pipe sealing device. 3,700,265, 10-24-72, Cl. 285-15.000.
Dufresne, Jacques Pierre: *See—*
Buzzi, Umberto; Dufresne, Jacques Pierre; and Farfaletti-Casali, Flaviano, 3,677,328.
Dufton, John Peter: *See—*
Panter, Robert B.; Dufton, John Peter; Duthie, Robert W.; and Verbaas, George, 3,678,197.
Dufton, William C.: *See—*
Brown, William E., Jr.; and Dufton, William C., 3,682,209.
Dugan, Allan Edward, to Western Electric Company, Incorporated. Electron beam inspection. 3,703,637, 11-21-72, Cl. 250-49.5pe.
Dugan, John J., to Esso Research and Engineering Company. Catalyst system. 3,670,037, 6-13-72, Cl. 260-656.00r.
Dugdale, Raymond: *See—*
Habashi, Fathi; Dugdale, Raymond; and Holderreed, Francis L., 3,650,679.
Dugdale, Ronald Arthur; and Ford, Stanley Denis, to United Kingdom Atomic Energy Authority. Growing of crystals using electron beam heating and annealing. 3,634,045, 1-11-72, Cl. 23-301.
Dugdale, Ronald Arthur; Ford, Stanley Denis; and Maskrey, John Thomas, to United Kingdom Atomic Energy Authority. Non-thermionic glow discharge devices. 3,678,334, 7-18-72, Cl. 315-111.000.
Duggan, John C., to Monsanto Company. Preparation of 1,3-dienes. 3,660,342, 5-2-72, Cl. 260-666.00a.
Duggan, Lois J.; trustees of the estate of Magnuson, Roy M.: *See—*
Babb, Raymond E., 3,669,263.
Duggan, Richard E.; Sandberg, Bernard L.; Reisner, Manfred; and Gascoigne, Allan J., to Cat Products, Inc. Alarm with trundle switch. 3,644,921, 2-22-72, Cl. 340-283.
Duggan, Robert B.: *See—*
Noakes, Thomas E.; Konen, Thomas P.; Kokalari, Albert; and Duggan, Robert B., 3,696,611.
Duggan, Robert J.: *See—*
Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., 3,656,148.
Duggar, Anderson, Jr. Speed reducer. 3,675,510, 7-11-72, Cl. 74-801.000.
Dugge, Richard H.; and Smith, Garth R., to ACF Industries, Incorporated. Removable lower cover for hopper discharge outlet structure. 3,656,666, 4-18-72, Cl. 222-556.
Dugge, Richard H.; and Carney, John L., Jr., to ACF Industries, Incorporated. Device for removing an outer sleeve from a rotatable tube. 3,691,611, 9-19-72, Cl. 29-261.000.
Dugge, Richard H.; and Carney, John L., Jr., to ACF Industries Incorporated. Hopper outlet valve providing lading samplying. 3,701,460, 10-31-72, Cl. 222-193.000.
Dugger, Cortland O., to United States of America, Air Force. Process for the synthesis of glass and single crystal germanates of identical composition. 3,674,455, 7-4-72, Cl. 65-134.000.
Dugger, Harry A.: *See—*
Cooke, George A.; Dugger, Harry A.; and Houlihan, William J., 3,657,268.
Duggins, Ray B.; and Gross, Robert J., to Du Pont de Nemours, E. I., and Company. Process for forming a stress-free article containing a depression from a polymer. 3,642,975, 2-15-72, Cl. 264-314.
Dugle, Thomas E., to Planet Products Corporation. Workpiece drive means for turning lathes. 3,657,950, 4-25-72, Cl. 82-8.
Duguay, Michel Albert, to Bell Telephone Laboratories, Incorporated. Direct display of light images with picosecond resolution. 3,669,541, 6-13-72, Cl. 356-5.000.
Duguay, Michel Albert, to Bell Telephone Laboratories, Incorporated. Picosecond optical apparatus utilizing optically induced birefringence in solids. 3,671,747, 6-20-72, Cl. 250-199.000.
Duguay, Michel Albert; and Hansen, John Wilfred, to Bell Telephone Laboratories, Incorporated. Dispersion compensation in lasers. 3,675,154, 7-4-72, Cl. 331-94.500.
Duham, Frederick W.: *See—*
Potts, Vinson S.; and Duham, Frederick W., 3,683,834.
Duhamel, Ronald E.: *See—*
Ferlise, Louis; and Duhamel, Ronald E., 3,690,245.
Duhamel, Ronald E.; and Hutten, James E., to Panacon Corporation. Compact combination infra-red heating and ventilating unit. 3,692,977, 9-19-72, Cl. 219-343.000.
Duhan, Frederick William, to Crown Cork & Seal Company, Inc. Conveying apparatus and method. 3,642,120, 2-15-72, Cl. 198-203.
Duharte-Francia, Carlos A.: *See—*
Lieberman, Hillel; Duharte-Francia, Carlos A.; and Henderson, John W., 3,697,439.
Duhault, Jacques: *See—*
Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Duhault, Jacques, 3,683,008.
Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Duhault, Jacques, 3,683,088.
Regnier, Gilbert; Canevari, Roger; and Duhault, Jacques, 3,705,899.
Duhaut, Pierre: *See—*
Cosyns, Jean; and Duhaut, Pierre, 3,661,798.
Duhl, David N., to United Aircraft Corporation. Enhancement of transverse properties of directionally solidified superalloys. 3,700,433, 10-24-72, Cl. 148-32.500.
Duhring, Ornolf; and Damgaard, Lavritz Gudmund, to Struers, H., Chemiske Laboratorium. Apparatus for the filling of petri dishes. 3,704,568, 12-5-72, Cl. 53-109.000.
Duhring, Wolfgang: *See—*
Rohner, Dieter; and Duhring, Wolfgang, 3,679,808.
Duisburger Kupferhutte: *See—*
Dobbener, Raymond; and De Haas, Hans, 3,685,985.
Dujardin, Roger: *See—*
Carossi, Jean-Claude; Dufayet, Jean-Pierre; and Dujardin, Roger, 3,697,868.
Duke, Anthony John; and Dagley, Horace John, to Chrysler United Kingdom Limited. Methods of making heat exchangers. 3,702,022, 11-7-72, Cl. 29-157.30d.
Duke, Bernard; and Levensohn, David Z., to Miracle Pet Products, Inc. Aquarium gang valve. 3,643,694, 2-22-72, Cl. 137-608.
Duke, Bernard; and Levensohn, David Z., to Miracle Pet Products, Inc. Combination aquarium pump and gang valve. 3,671,151, 6-20-72, Cl. 417-411.000.
Duke, David A.: *See—*
Giffen, James W.; Duke, David A.; Dumbaugh, William H., Jr.; Flannery, James E.; MacDowell, John F.; and Megles, John E., 3,673,049.
Duke, David A., to Corning Glass Works. Glass-ceramic articles. 3,700,471, 10-24-72, Cl. 106-39.0dv.
Duke, Inc.: *See—*
Keith, Jack G., 3,673,227.
Duke, June T.: *See—*
Coffey, Gerald P.; Ball, Lawrence E.; and Duke, June T., 3,683,052.
Duke, Keith A.: *See—*
Bouricius, Willard G.; Carter, William C.; Duke, Keith A.; Roth, John P.; and Schneider, Peter R., 3,665,174.
Carter, William C.; Duke, Keith A.; and Jessep, Donald C., Jr., 3,648,239.
Carter, William C.; Duke, Keith A.; and Jessep, Donald C., Jr., 3,697,949.
Duke, Philip J.: *See—*
Helgeland, Walter; Lazott, James B.; Duke, Philip J.; Taggart, William J.; Geacox, George W.; and Brandsma, Abe, 3,645,784.
Duke, Roy B.; and McGrew, David P., to Marathon Oil Company. Oxydehydrogenation process for preparation of dienes. 3,651,121, 3-21-72, Cl. 260-465.
Duke, Roy B., Jr.; and Echelberger, Larry M., to Marathon Oil Company. Oxidative coupling and dehydrogenation of methyl-substituted aromatic and heterocyclic compounds. 3,646,018, 2-29-72, Cl. 260-240.
Duke, Roy B., Jr., to Marathon Oil Company. Oxidative dealkylation and dehydrogenation of tert-alkyl aromatics. 3,706,811, 12-19-72, Cl. 260-669.00r.
Duke University, Inc.: *See—*
Tosteson, Daniel C., 3,657,095.
Dukert, Andrew A.; and Christofas, Alkis, to Pennwalt Corporation. Extrusion strip die for thermoplastic sheet. 3,680,997, 8-1-72, Cl. 425-381.000.
Dukes, Clifford F.; and Scott, George B., to Celanese Coatings Company. Epoxide resins cured with amine-glycidyl ester adducts in admixture with a phenolic accelerator. 3,637,902, 1-25-72, Cl. 260-830.
Dukes, Everett E., Jr.: *See—*
Hedin, Robert A.; and Dukes, Everett E., Jr., 3,673,569.
Dukes, John N., to Hewlett-Packard Company. Temperature compensation of a laser interferometer. 3,674,371, 7-4-72, Cl. 356-106.000.
Dukes, John N., to Hewlett-Packard Company. Automatic restarting laser power supply. 3,679,934, 7-25-72, Cl. 315-200.00r.
Dukes, John N., to Hewlett-Packard Company. D. C. motor circuit for rotating a polarizer and providing a detector synchronizer signal for a laser stabilizing system. 3,701,042, 10-24-72, Cl. 331-94.500.
Dukes, John R., to Industrial Nucleonics Corporation. Non-shifting radiation source capsule. 3,655,984, 4-11-72, Cl. 250-106.
Dukes, Michael: *See—*
Davies, George Edward; Dukes, Michael; and Johnston, Thomas Paterson, 3,655,896.
Dukes, Michael, to Imperial Chemical Industries Limited. Certain S-triazolo 1,5-a pyrimidines. 3,689,488, 9-5-72, Cl. 260-256.40f.
Dukov, Vasily Maximovich: *See—*
Lakiza, Rostislav Ivanovich; Soloviev, Petr Ivanovich; Dukov, Vasily Maximovich; and Baron, Grigory Rakhmielevich, 3,662,991.
Dulaney, Ernest N.: *See—*
Bergemann, Gerald T.; and Dulaney, Ernest N., 3,639,703.
Dulaney, Thomas J. Panel mounting apparatus. 3,691,713, 9-19-72, Cl. 52-397.000.

Dulat, Joseph, to United States Borax & Chemical Corporation. Ceramic whiteware compositions comprising a borate flux. 3,704,146, 11t28-72, Cl. 106-45.000.

Dulberg, Murray. Manifold lipstick holder. 3,656,628, 4-18-72, Cl. 211-13.000.

Dulhunty, Philip W., to Dulmison (Australia) Pty., Limited. Overhead transmission line and attached vibration damper. 3,644,660, 2-22-72, Cl. 174-42.

Duling, Irl N.: *See—*
Stearns, Richard S.; Duling, Irl N.; and Gates, David S., 3,676,521.

Duling, Irl N.; Schneider, Abraham; and Driscoll, Gary L., to Sun Oil Company. Adamantane polyesters. 3,639,351, 2-1-72, Cl. 260-75.

Duling, Irl N.; Schneider, Abraham; and Moore, Robert E., to Sun Oil Company. Adamantane acrylate and methacrylate esters and polymers thereof. 3,639,362, 2-1-72, Cl. 260-78.5.

Duling, Irl N.; Glazier, Frederick P.; Gates, David S.; and Moore, Robert E., to Sun Oil Company. Friction or tractive drive fluid comprising adamantanes. 3,645,902, 2-29-72, Cl. 252-73.

Duling, Irl N.; Gates, David S.; Moore, Robert E.; and Glazier, Frederick P., said Duling, said Gates and said Moore assors. to Sun Oil Company. Friction or tractive drive fluid. 3,648,531, 3-14-72, Cl. 74-200.

Duling, Irl N.; and Merges, John C., Jr., to Sun Oil Company. Extrusion of extremely high molecular weight polyolefins. 3,665,068, 5-23-72, Cl. 264-211.

Duling, Irl N.; Driscoll, Gary L.; and Moore, Robert E., to Sun Oil Company. Process for preparing polyamides. 3,692,750, 9-19-72, Cl. 260-78.40n.

Dulis, Edward J.; Kasak, August; and Stasko, William, to Crucible Inc. Low-nickel valve steel. 3,681,058, 8-1-72, Cl. 75-128.00a.

Dull, Ernst Hermann: *See—*
Brune, Werner; Schwartz, Gunter; Dull, Ernst Hermann; and Polly, Edgar, 3,665,393.

Dull, Helmut, to Bernhard Beyschlag Apparatebau G.m.b.H. Electric network and method of making same. 3,697,816, 10-10-72, Cl. 317-101.0cc.

Dull, Thomas J., to Leggett and Platt, Incorporated. Helical wire shearing and twisting mechanism for spring mattress units. 3,648,737, 3-14-72, Cl. 140-92.7.

Dulle, William J. Rotating bird perch. 3,678,901, 7-25-72, Cl. 119-26.000.

Dullinger, Karl, to Kronseder, Hermann. Method and apparatus for foil wrapping bottle necks. 3,707,417, 12-26-72, Cl. 156-212.000.

Dully, Floyd I.: *See—*
De Claire, James H.; Dully, Floyd I.; and Hull, Neil A., 3,653,711.

Dulmage, Fred C., to Dow Chemical Company, The. Package including envelope with heat-shrunk band. 3,664,498, 5-23-72, Cl. 206-65.

Dulmage, Howard T.; Correa, Jose A.; and Martinez, Adelaido J. Certain microbial insecticides and methods of preparation thereof. 3,702,359, 11-7-72, Cl. 424-93.000.

Dulmison (Australia) Pty., Limited: *See—*
Dulhunty, Philip W., 3,644,660.

Dulya, Mikhail Afanasievich: *See—*
Tatianko, Nikolai Vasilievich; Tsymbal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vailievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.

DUMAG OHG, Dr. Ludwig Kaluza & Co.: *See—*
Wiesenberger, Josef, 3,667,679.

Dumais, Richard L.: *See—*
Arciprete, Genio R.; Brokow, Adrian P.; Dumais, Richard L.; and Stucchi, Richard F., 3,662,362.

Dumanchin, Roger, to Compagnie Generale de Telegraphie Sans Fil. Microstrip aerials. 3,643,262, 2-15-72, Cl. 343-846.

Dumanowski, Ferdinand J.; Malley, William G.; and Cayton, David W., to FMC Corporation. Turnover shaker. 3,656,488, 4-18-72, Cl. 130-30.

Dumas, Christ J.: *See—*
Simovits, Stephen S.; and Dumas, Christ J., 3,636,412.

Dumas, Christ J., to American Plasticraft Company. Modularized resistance unit. 3,638,161, 1-25-72, Cl. 338-256.

Dumas, Henry J., Jr.: *See—*
Raye, George W.; Dumas, Henry J., Jr.; and Duncan, Lloyd N., 3,664,397.

Dumas, Hugh D. Pickup truck spare tire carrier. 3,650,424, 3-21-72, Cl. 214-454.

Dumas, Victor: *See—*
Allard, Pierre; and Dumas, Victor, 3,687,776.

Dumast, Michel; Rouzaud, Guy; and Thevenin, Luc, to Societe d'Instrumentation Schlumberger. Regulator-meter utilizing a beam of light for indication and regulation. 3,693,022, 9-19-72, Cl. 250-230.000.

Dumbaugh, William H., Jr.: *See—*
Giffen, James W.; Duke, David A.; Dumbaugh, William H., Jr.; Flannery, James E.; MacDowell, John F.; and Megles, John E., 3,673,049.

Dumbaugh, William H., Jr.; Flannery, James E.; and Hares, George B., to Corning Glass Works. Opal glass compositions. 3,661,601, 5-9-72, Cl. 106-54.

Dumbaugh, William H., Jr.; Flannery, James E.; and Hares, George B., to Corning Glass Works. Opal glass compositions comprising calcium fluoride. 3,681,098, 8-1-72, Cl. 106-52.000.

Dumbauld, Richard, to Berkley & Company, Inc. Drag mechanism for fishing reels. 3,682,411, 8-8-72, Cl. 242-84.20r.

Dumeige, Daniel, to AMP Incorporated. Fuse connectors. 3,681,740, 8-1-72, Cl. 339-151.00m.

Dumesnil, Maurice E.; Hewitt, Robert R.; and Bozarth, Joseph L., to Fairchild Camera and Instrument Corporation. Low-expansion, low-melting zinc phosphovanadate glass compositions. 3,650,778, 3-21-72, Cl. 106-47.

Dumire, Leo G.: *See—*
Nevin, John J.; and Dumire, Leo G., 3,685,147.

Dumitrescu, Nicolaie: *See—*
Mogos, Ion; Muscel, Cormel I.; and Dumitrescu, Nicolaie, 3,648,694.

Dumitrescu, Stelica: *See—*
Costa, Eugen; Ene, Lucian; Dumitrescu, Stelica; and Covaci, Ioan, 3,695,333.

Dumitrescu, Traian, to Institutul de Cercetari Tehnologice Pentru Constructii de Masini. Method of making piston rings. 3,673,004, 6-27-72, Cl. 148-3.000.

Dumitriu, John. Floating turbine construction. 3,641,762, 2-15-72, Cl. 60-22.

Dumler, Henry: *See—*
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Dummer, Richard S.: *See—*
Wellnitz, Jerry N.; and Dummer, Richard S., 3,702,391.

Dummer, Wilhelm: *See—*
Diedrich, Bernd; and Dummer, Wilhelm, 3,654,249.

Dummermuth, Ernst, to Allen-Bradley Company. Numerical control contouring machine including means to provide excess feed-rate. 3,649,899, 3-14-72, Cl. 318-571.

Dummermuth, Ernst, to Allen-Bradley Company. Digital differential analyzer employing multiple overflow bits. 3,701,890, 10-31-72, Cl. 235-150.310.

Dummermuth, Ernst H., to Allen-Bradley Company, mesne. Velocity control of numerical control system. 3,633,013, 1-4-72, Cl. 235-151.11.

Dumont, A J. Toy gun with bubble-forming sight. 3,636,652, 1-25-72, Cl. 46-8.

Dumont, Daniel: *See—*
Blezat, Jean; and Dumont, Daniel, 3,682,662.

Dumont, Thomas P., to Emery Industries, Inc. Polyester compositions and their use as textile assistants. 3,694,257, 9-26-72, Cl. 117-139.50f.

Dumont-Fillon, Jacques; and Roederer, Charles, to Institut de Recherches de la Siderurgie Francaise. Electric arc furnace for continuously melting scrap iron. 3,665,085, 5-23-72, Cl. 13-9.000.

Dumontier, Jean-Michel, to Regie Nationale des Usines Renault and Automobiles Peugeot. Composite bumpers. 3,692,345, 9-19-72, Cl. 293-71.00r.

Dumoulin, Michel: *See—*
Farjon, Raymond; Farce, Jacques; Florent, Jacques; and Dumoulin, Michel, 3,702,314.

Dun, Peter W.; and Van Hemert, Formijn J., to Shell Oil Company. Process for the production of very high VI lubricating oils by hydrotreating. 3,663,422, 5-16-72, Cl. 208-28.

Dun, Peter W.; and Van Weeren, Pieter A., to Shell Oil Company. Multi-zone hydrocracking process for HVI lubricating oils. 3,682,813, 8-8-72, Cl. 208-59.000.

Dun-Hot, Incorporated: *See—*
Jehn, David H., 3,671,270.

Dun-Rite Manufacturing Corporation: *See—*
Kliewer, George G., 3,656,452.

Dunaevsky, July Nekhemievich; Tartakovsky, Boris Nusimovich; Zhukov, Nikolai Arsentievich; and Potapenko, Viktor Viktorovich. Excavator. 3,689,090, 9-5-72, Cl. 280-6.100.

Dunahoo, Glen L.: *See—*
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Dunai Vasmu: *See—*
Horvath, Aurel; Repasi, Gellert; Szabo, Elek; and Vorsatz, Bruno, 3,661,559.

Dunay, Michael: *See—*
Jamison, Saunders E.; and Dunay, Michael, 3,639,501.

Dunbabin, John G., to Connecting Devices, Inc. Method of making a connector. 3,665,601, 5-30-72, Cl. 29-629.

Dunbar, Alexander S.: *See—*
Duffy, Joseph J.; and Dunbar, Alexander S., 3,696,308.

Dunbar, Charles C. Tide-actuated machine. 3,706,507, 12-19-72, Cl. 415-7.000.

Dunbar, Clarence Wendell: *See—*
Hahn, Lynn Harold; and Dunbar, Clarence Wendell, 3,642,447.

Dunbar, Glenn G. Container handling apparatus. 3,670,912, 6-20-72, Cl. 214e313.000.
Dunbar, Glenn G., to Allied Tube & Conduit Corporation. Material transporting apparatus. 3,674,166, 7-4-72, Cl. 214-501.000.
Dunbar, Jack D., to Textron Inc. Glass armor fabrication. 3,684,631, 8-15-72, Cl. 161-37.000.
Dunbar, Jack E.: *See—*
Cramer, Robert L.; Henneman, John W.; and Dunbar, Jack E., 3,693,653.
Dunbar, John R.: *See—*
Cazabon, Dennis C.; and Dunbar, John R., 3,672,625.
Dunbar, Joseph E.; and Zemba, John W., to Dow Chemical Company, The. Pyridyl xanthates. 3,674,795, 7-4-72, Cl. 260-294.80e.
Dunbar, Oris G.: *See—*
Helms, Millard O.; and Dunbar, Oris G., 3,691,523.
Dunbar, Robert A., to General Electric Company. DC to AC inverter for producing a sine-wave output by pulse width modulation. 3,649,902, 3-14-72, Cl. 321-9.
Dunbar, Robert A., to Remvac System Corporation. Coded card and reader therefor. 3,699,311, 10-17-72, Cl. 235-61.11h.
Dunbar, Robert G., Jr.; and Womack, Karl K., to International Business Machines Corporation. Address modification by main/control store boundry register in a microprogrammed processor. 3,651,475, 3-21-72, Cl. 340-172.5.
Duncan, Alan W., to Sears, Roebuck and Co. Combination gate hinge and closer. 3,699,615, 10-24-72, Cl. 16-184.000.
Duncan, Alfred D., to Duncanlite Laboratory, Inc. Catcher and projector employed with a substantially non-resilient ball. 3,697,074, 10-10-72, Cl. 273-96.
Duncan, Angelo N., to Smith, A. O., Corporation. Water heating and storage system with mixing valve. 3,705,574, 12-12-72, Cl. 126-362.000.
Duncan, Carolyn L.: *See—*
Duncan, William D.; and Duncan, Carolyn L., 3,639,945.
Duncan, David M. Deposited silicon diffusion sources. 3,664,896, 5-23-72, Cl. 148-187.
Duncan, David M., to Communications Transistor Corporation. Radio frequency transistor package. 3,683,241, 8-8-72, Cl. 317-234.000.
Duncan, David M., to Communications Transistor Corporation. Method and apparatus for measuring R. F. current gain of a transistor. 3,707,677, 12-26-72, Cl. 324-158.00t.
Duncan Electric Company, Inc.: *See—*
Burkhart, George N., Jr., 3,652,936.
Hess, Hugo J. A.; Milligan, James W.; and Friend, Harvey L., 3,638,116.
Milligan, James W., 3,657,676.
Road, Richard A.; and Schlatter, James H., 3,657,651.
Duncan, Floyd R., to Pan American Petroleum Corporation. Pontoon structures in man-made lake for arctic operations. 3,670,813, 6-20-72, Cl. 166-.500.
Duncan, Franklin D.; and Butt, Alan G., to Trane Company, The. Cross flow plate type heat exchanger with barrier space. 3,633,661, 1-11-72, Cl. 165-70.
Duncan, George A., to General Motors Corporation. Method of screen printing. 3,656,428, 4-18-72, Cl. 101-129.
Duncan, Howard K.: *See—*
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Duncan, Joe S.; and Elmer, Otto C., to General Tire & Rubber Company, The. Composition for lowering the release temperature of phenol-and lower alkyl substituted phenol-blocked isocyanates. 3,668,186, 6-6-72, Cl. 260-75.0nc.
Duncan, John E. Adjustable hysteresis clutch and brake. 3,700,941, 10-24-72, Cl. 310-105.000.
Duncan, Johnson L. Curtain and shade support. 3,679,165, 7-25-72, Cl. 248-256.000.
Duncan, Lawrence N. Phase detection circuit. 3,633,072, 1-4-72, Cl. 317-27.
Duncan, Leslie C. V., to Southbourne Rubber Company Limited. Plug or stopper for the open ends of tubular metal appliances. 3,640,496, 2-8-72, Cl. 248-188.9.
Duncan, Lewis C.: *See—*
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Duncan, Richard A., to Thomson Machinery Company, Inc., The. Two row window harvester. 3,665,686, 5-30-72, Cl. 56-11.3.
Duncan, Richard D.; and Salzano, George H., to United States of America, Atomic Energy Commission. Tube spacer tool. 3,640,115, 2-8-72, Cl. 72-393.
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Duncan, Robert Louis, Jr., to Robins, A. H., Company, Incorporated. 6-Substituted-indolo[1,2-c]quinazolines. 3,635,966, 1-18-72, Cl. 260-247.5.
Duncan, Robert Louis, Jr.; and Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. Indolo[1,2-d][1,4]benzodiazepin-6-ones. 3,642,779, 2-15-72, Cl. 260-239.3.
Duncan, Robert Stanwood, to Bell Telephone Laboratories, Incorporated. Optical-electromechanical apparatus for generating and collapsing chirp pulses. 3,639,038, 2-1-72, Cl. 350-161.
Duncan, Stephen H., to Honeywell, Inc. Unitary vacuumhold down apparatus for large and small record sheets. 3,659,818, 5-2-72, Cl. 248-363.
Duncan, Vernon R.; and Owen, Louis L., to General Electric Company. Modulating circuit. 3,706,943, 12-19-72, Cl. 332-9.00t.
Duncan, William A.: *See—*
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Duncan, William A.; and Murfree, James A., Jr., to United States of America, Army. Metal carbonyls as gas generation process using additives. 3,665,708, 5-30-72, Cl. 60-220.000.
Duncan, William D.; and Duncan, Carolyn L. Poultry cutter. 3,639,945, 2-8-72, Cl. 17-11.
Duncan, William E.; Kau, Harry L. F.; and Livermont, Lawrence H., to Hi-Shear Corporation. Roll-forming of transition surfaces on cylindrically shanked element. 3,636,746, 1-25-72, Cl. 72-100.
Duncan, William E., to United States of America, Navy. Orthogonal line generator. 3,706,235, 12-19-72, Cl. 74-52.000.
Duncan, Wilson B., Jr. Bin carrier. 3,679,081, 7-25-72, Cl. 214-516.000.
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Dundon, John Peter, to American Cyanamid Company. Process for crease resistant textiles. 3,705,822, 12-12-72, Cl. 117-139.400.
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Dungan, Paul, to Grace, W. R., & Co. Process for eliminating flashing from molded thermoplastic articles. 3,702,789, 11-14-72, Cl. 134-5.000.
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Dunham, Kenneth R.; Newcomb, Richard A.; and Yost, Marshall E., to Eastman Kodak Company. Photoresist compositions containing N-halo cyclic imides. 3,702,766, 11-14-72, Cl. 96-75.000.
Dunham, Milo A.; and Hardy, Donald F., to Dart Industries, Inc. All purpose belt coater. 3,695,223, 10-3-72, Cl. 118-217.000.
Dunham, Tom David; Yeakley, Lester Marvin; and Nagy, Andrew, to International Nominees Bahamas Limited, mesne. Custom shoe construction system. 3,696,456, 10-10-72, Cl. 12-146.00l.
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Dunham, Wayne. Propeller assembly. 3,682,128, 8-8-72, Cl. 115-34.00r.
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Dunlap, Howard L., to Hughes Aircraft Company. Method for bonding contacts to and forming alloy sites on silicon carbide. 3,654,694, 4-11-72, Cl. 29-587.
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Dunlavey, Robert J., to Teletype Corporation. Lateral oscillation to form ink droplets. 3,689,936, 9-5-72, Cl. 346-75.000.
Dunlop, Adam. Method of carbonizing refractory moulds. 3,683,996, 8-15-72, Cl. 164-14.000.
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Dunn, Donald P.; and Dunn, Helen T. Hand loom and combination display device. 3,695,303, 10-3-72, Cl. 139-34.000.
Dunn, Elmer M. Apparatus for treating fabric items. 3,687,102, 8-29-72, Cl. 118-2.000.
Dunn, Eugene Blair; Masavage, Gerald James; and Sauer, Harold Alfred, to Bell Telephone Laboratories, Incorporated. Method of freezing solution droplets and the like using immiscible refrigerants of differing densities. 3,653,222, 4-4-72, Cl. 62-74.
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Dunwald, Willi: *See—*
Merten, Rudolf; Dunwald, Willi; and Mielke, Karl-Heinz, 3,642,524.

Dunwell, David William; and Evans, Delme. Pyrimidotriazinone compounds. 3,694,441, 9-26-72, Cl. 260-249.500.

Duong, Tuan Kiet: *See—*
Bellanger, Maurice Georges; Daguet, Jacques Lucien; and Duong, Tuan Kiet, 3,674,937.

Dupas, Robert; and Ostyn, Marcel, to Esso Research and Engineering Company. Lubricating oil composition. 3,634,249, 1-11-72, Cl. 252-59.

Dupasquier, Joseph H. Discharging nozzle assembly for producing equalized distribution of pressurized fluid in an elongated drying chamber. 3,669,831, 6-13-72, Cl. 162-290.000.

Dupea, Fred W. Vacuum cleaner head for cleaning and combing shag carpeting. 3,668,735, 6-13-72, Cl. 15-397.000.

Duphorn, Ingolf: *See—*
Schacht, Ulrich; Tschesche, Rudolf; and Duphorn, Ingolf, 3,660,569.

Dupieux, Jacques Georges; Gadre, Jean-Claude; Le Corre, Jean-Pierre; deceased (by La Corre, Yvette Marie Laurence; administratrix); and Loisel, Jean Francois Pierre Julien, to International Standard Electric Corporation. TDM switching network using time spced control signals. 3,678,206, 7-18-72, Cl. 179-18.00j.

Duplan Corporation, The, mesne: *See—*
Anderson, Sven; and Lombardo, Anthony, 3,699,907.

Dupler, Raymond R. Body and head covering. 3,696,450, 10-10-72, Cl. 5-334.000.

Duplex, Paul: *See—*
Globus, Anatol; Duplex, Paul; and Vautier, Roger, 3,674,218.

Dupnock, Andrew; Gorey, Edward F.; and Keenan, William A., to International Business Machines Corporation. Method for measuring resisitivity. 3,676,775, 7-11-72, Cl. 324-64.000.

Dupol-Rubbermaid GmbH Fabrik fur Gummi- und Kunststofferzeugnisse: *See—*
Hubel, Otto, 3,654,657.

DuPont, Andre Pierre Francois, to DuPont, S. T., (Societe Anonyme). Spark wheel actuating mechanism particularly for cigarette lighters. 3,661,498, 5-9-72, Cl. 431-275.

Dupont, Eugene F.: *See—*
Stangarone, Gene; Cassara, Frank A.; and Dupont, Eugene F., 3,675,615.

Dupont, Gerard Pierre Marie-Joseph. Space-heating burner. 3,639,094, 2-1-72, Cl. 431-115.

Dupont, Paul E.: *See—*
Mooradian, Aram; and Dupont, Paul E., 3,657,350.

Dupont Roger: *See—*
Carriere, Christian; and Dupont Roger, 3,666,969.

DuPont, Ronal Charles, to GSW Limited-GSW Limitee. Spout structure. 3,643,987, 2-22-72, Cl. 285-205.

DuPont, S. T., (Societe Anonyme): *See—*
DuPont, Andre Pierre Francois, 3,661,498.

Dupouy, Jean. Device for rapidly loading a revolver cylinder. 3,667,146, 6-6-72, Cl. 42-89.

Dupre, Herman K. Waste treatment systems. 3,695,439, 10-3-72, Cl. 210-173.000.

Dupre, Herman K. Apparatus and method for making snow. 3,706,414, 12-19-72, Cl. 239-14.000.

Dupre, Jean; and Booman, Keith A., to Rohm & Haas Company. Synergistic combination for inhibiting the attack of alkaline solutions on alkali sensitive substrates. 3,653,095, 4-4-72, Cl. 21-2.7.

Dupre, Jean, to Rohm & Haas Company. Method of imparting soil release properties to fabrics. 3,655,436, 4-11-72, Cl. 117-129.5.

Dupre, Jean; and Booman, Keith A., to Rohm & Haas Company. Synergistic combination of silicates and barium salts for inhibiting the attack of alkaline solutions on aluminum containing materials. 3,655,582, 4-11-72, Cl. 252-387.

Dupre, John J., to Hewlett-Packard Company. Yig-tuned solid state microwave oscillator. 3,668,554, 6-6-72, Cl. 331-107.00r.

Dupre, Victor M.: *See—*
Sureau, Robert F. M.; Kremer, Gilbert V. H.; and Dupre, Victor M., 3,634,414.

Dupre, Victor Marie: *See—*
Sureau, Robert Frederic Michel; Alicot, Marie-Josephe Jeanne; and Dupre, Victor Marie, 3,644,389.

Dupree, Inc.: *See—*
Dupree, James N., 3,659,249.
Dupree, James N.; and Walker, Frank A., 3,665,459.
Dupree, James N., 3,673,544.

Dupree, James N., to Dupree, Inc. Lamp assembly for edge lighted panel. 3,659,249, 4-25-72, Cl. 339-88.

Dupree, James N.; and Walker, Frank A., to Dupree, Inc. Annunciator light hinged cover. 3,665,459, 5-23-72, Cl. 340-381.000.

Dupree, James N., to Dupree, Inc. Connector for lamp socket. 3,673,544, 6-27-72, Cl. 339-61.00l.

Dupree, Paul Montgomery: *See—*
Sheehan, Gerard Martin; Roberts, George Leathwhite, Jr.; and Dupree, Paul Montgomery, 3,658,566.

Duprey, Francis S., to Parker Manufacturing Company. Handle lock for a cutting instrument. 3,681,845, 8-8-72, Cl. 30-341.000.

Duprey, Richard H., to Interroyal Corporation. Bed locking device. 3,676,881, 7-18-72, Cl. 5-63.000.

Dupuis, Hubert, to Allegheny Ludlum Industries, Inc. Indexable cutting inserts. 3,681,830, 8-8-72, Cl. 29-95.000.

Dupuis, Hubert J., to Carmet Company. Indexable broach. 3,656,220, 4-18-72, Cl. 29-95.1.

Dupuis, Hubert J., to Carmet Company. Cutting insert holder. 3,665,571, 5-30-72, Cl. 29-96.

Dupuis, Jean, to General Fireproofing Company, The. Detachable tablet arm assembly. 3,680,911, 8-1-72, Cl. 297-162.000.

Duquaine, Gordon L.: *See—*
Carlson, Clarence C.; and Duquaine, Gordon L., 3,707,404.

DuQuesnay, Robert H.: *See—*
Hedin, Robert A.; and DuQuesnay, Robert H., 3,651,464.

Duquette, Noel Charles, to Brill, H. C., Company, Inc. Enzymatic baking compositions and methods for using same. 3,650,764, 3-21-72, Cl. 99-90.

Duquette, William F.; Stormzand, Dale T.; and Rauhauser, Warren C., to Avis Industrial Corporation. Wireway divider. 3,633,628, 1-11-72, Cl. 138-116.

Dura Corporation: *See--*
Aarup, Carl P., 3,671,055.
Littmann, Joseph C., 3,635,100.
McGee, Donald J., 3,694,001.

Dura Fiber, Inc.: *See—*
Jenks, Herbert R., 3,641,230.

Dura-Pak, Inc.: *See—*
Panasewicz, Anton Z., 3,678,652.

DuraCraft Boats, Inc.: *See—*
Ward, Milton K., 3,642,320.

Durametallic Corporation: *See—*
Adams, William V., 3,655,206.
Hummer, Herbert B., 3,661,398.
Hummer, Herbert B., 3,697,088.

Duran, Conrado E. Hand operated wheeled V-blade snowplow. 3,664,042, 5-23-72, Cl. 37-47.

Duran, Raymond J.; and Musch, Gordon F., to Black and Decker Manufacturing Company, The. Trimmer-edger debris catcher. 3,672,139, 6-27-72, Cl. 56-202.000.

Durand & Huguenin A.G.: *See—*
Keller, Heinz; and Grossmann, Hans, 3,649,654.

Durand, Francois. Device for transmitting motion. 3,707,212, 12-26-72, Cl. 192-150.000.

Durand, Harry Walter, to Grain Processing Corporation. Derivatized starch thinning with hydrogen peroxide. 3,655,644, 4-11-72, Cl. 260-233.3.

Durand, Jacqueline. Photographic light box. 3,643,085, 2-15-72, Cl. 240-20.

Durand, Jean-Francois: *See—*
Houot, Jean-Jacques; Pelissier, Yves; and Durand, Jean-Francois, 3,645,565.

Durand, Marce, to Pomagalski, Jean, S.A. Power hoisting apparatus. 3,640,506, 2-8-72, Cl. 254-187.

Durand, Marcel, to Pomagalski, Jean, S.A. Winch or hoist with a friction brake device. 3,640,505, 2-8-72, Cl. 254-150.

Durand, Philip E., to United States of America, Army. Low profile size adjustable protective helmet. 3,665,514, 5-30-72, Cl. 2-3.

Durand, Pierre: *See—*
Lartigue, Gerard; and Durand, Pierre, 3,684,453.

Durand, Pierre, to Societe Anonyme Richier. Device for achieving permanent equilibration in tower cranes. 3,642,148, 2-15-72, Cl. 212-48.

Duranleau, Roger G.: *See—*
Smetana, Richard D.; and Duranleau, Roger G., 3,646,226.

Durant, Dennis J.: *See—*
Crovatt, Lawrence W., Jr.; and Durant, Dennis J., 3,654,235.

Durant, Walter F. Wheel puller. 3,638,294, 2-1-72, Cl. 29-252.

Durbin, George A. Juice extracting device. 3,673,952, 7-4-72, Cl. 100-98.000.

Durbin, Larry E.; and Thomas, Robert, to Big Three Industrial Gas & Equipment Co. Gravity switch assembly. 3,651,290, 3-21-72, Cl. 200-61.45.

D'Urbino, Donato: *See—*
Decursu, Giorgio; De Pas, Jonathan; D'Urbino, Donato; and Lomazzi, Paolo, 3,672,723.

Durcam Research and Development Company Limited: *See—*
Temple, Stephen, 3,697,344.

Durckheimer, Walter: *See—*
Schorr, Manfred; Durckheimer, Walter; and Duwel, Dieter, 3,658,834.
Schorr, Manfred; Durckheimer, Walter; and Duwel, Dieter, 3,660,422.
Schorr, Manfred; Durckheimer Walter; Behrendt, Lothar; and Duwel, Dieter, 3,676,446.

Durdin, Lewis H.: *See—*
Wunsche, Edgar; Turner, Alfred H.; and Durdin, Lewis H., 3,686,421.

Duren, Jesse Thomas, to Ralston Purina Company. High protein pudding. 3,689,288, 9-5-72, Cl. 99-139.000.

Duren, Lennart Axel: *See—*
Andersson, Arne Hilding; and Duren, Lennart Axel, 3,691,437.

Duren, Lennart Axel; and Andersson, Arne, to Amlab AB. Ultrasonic generators. 3,694,713, 9-26-72, Cl. 318-116.000.
Duren, Rainer; and Neidig, Klaus, to Volkswagenwerk Aktiengesellschaft. Guide lock for motor vehicles. 3,656,098, 4-11-72, Cl. 340-52.
Durgarian, Sergei Garievich: *See—*
Nametkin, Nikolai Sergeevich; Durgarian, Sergei Garievich; Soloviev, Evgeny Vladimirovich; and Piryatinsky, Viktor Maxovich, 3,637,899.
Durham, Charles Edward, to Clenaglass Electric Washer Limited. Brushes for cleaning glasses and other drinking vessels. 3,675,263, 7-11-72, Cl. 15-76.000.
Durham, Nolan B., 1/2 to Crowe Manufacturing Company. Dual wheel assembly and clamp therefor. 3,675,974, 7-11-72, Cl. 301-13.0sm.
Durham, Robert E., to Container Corporation of America. Partition divider. 3,640,445, 2-8-72, Cl. 229-15.
Durham, Roger Owen. Personal armor. 3,696,439, 10-10-72, Cl. 2-2.500.
Durinck, Rene; and Boussekey, Bernard, to Fives Lille-Cail. Support for rotary furnaces. 3,648,992, 3-14-72, Cl. 263-33.
Duriron Company, Inc., The: *See—*
Bowen, John C., 3,661,060.
Bowen, John C., 3,668,978.
Durkee, Everett L.: *See—*
Lowe, Edison; and Durkee, Everett L., 3,634,103.
Durkee, Gale H. Adjustable rake. 3,701,243, 10-31-72, Cl. 56-400.180.
Durkee, Jackson L.; Beighley, Arthur F.; and Dunlap, Donald E.; deceased (by Dunlap, Mary E.; administratrix), to Bethlehem Steel Corporation. Method of making parallel wire strand. 3,659,633, 5-2-72, Cl. 140-111.
Durkee, John E., to Thomas Industries, Inc. Fire and burglar alarm system. 3,686,668, 8-22-72, Cl. 340-420.000.
Durkee, John E., to Thomas Industries, Inc. Control system having transmitter-receiver sets for operating functional device over power lines. 3,689,886, 9-5-72, Cl. 340-163.000.
Durkin, Joseph A.; Estes, John H.; and Lafferty, William L., Jr., to Texaco Inc. Hydroisomerization in the presence of carbon oxide promoted catalyst. 3,652,709, 3-28-72, Cl. 260-683.68.
Durkoppwerke GmbH: *See—*
Nicolay, Karl, 3,640,236.
Nicolay, Karl, 3,669,043.
Nicolay, Karl; and Pollmeier, Konrad, 3,704,884.
Durner, Josef: *See—*
Pfister, Franz; Albrecht, Ernst; Durner, Josef; and Maus, Eicke, 3,687,005.
Durney, George P., to ILC Industries, Inc. Ventilation system for inflatable pressure garments. 3,667,459, 6-6-72, Cl. 128-142.5.
Durney, George P., to ILC Industries, Inc. Spacesuit thigh restraint assembly. 3,699,589, 10-24-72, Cl. 2-2.100.
Duro-Dyne Corporation: *See—*
Hinden, Milton; and Porat, David, 3,701,878.
Duro-Test Corporation: *See—*
Cortorillo, Salvatore; Shaffer, George A.; and Strauss, Herbert S., 3,636,401.
Koo, Ronald C.; and Shurgan, Joel, 3,662,789.
Strauss, Herbert S., 3,675,068.
Thorington, Luke; and Parascandola, Louis J., 3,670,193.
DuRocher, Gideon A., to Essex International, Inc. Power locking and unlocking apparatus for vehicle doors. 3,653,237, 4-4-72, Cl. 70-264.
DuRocher, Gideon A.; and Kosowan, Michael B., to Essex International, Inc. Motor actuated seat back latch release mechanism. 3,655,240, 4-11-72, Cl. 297-379.
DuRocher, Gideon A., to Essex International, Inc. Thermally sensitive controls for electric circuits. 3,676,815, 7-11-72, Cl. 337-140.000.
Durolith Corporation: *See—*
Casson, Edward A., Jr.; Gaul, Albro T.; Langlais, Eugene L.; Shadlen, Gerald; and Vanaver, Eugene L., 3,658,662.
Duron, Paul P.; and Rich, Harold T., to Air Reduction Company, Incorporated. Machine for making dry ice pellets. 3,670,516, 6-20-72, Cl. 62-35.000.
Duroux, Jacques Marius: *See—*
Boichard, Jacques; Brossar, Bernard Pierre; Duroux, Jacques Marius; and Janin, Raymond Marc Clement, 3,651,135.
Charamel, Andre; Duroux, Jacques Marius; Siquet, Serge; and Descroix, Jaques, 3,692,830.
Durowe G.m.b.H.: *See—*
Stemmler, Ewald, 3,633,354.
Stemmler, Ewald, 3,636,700.
Durr, Alfred W.; Gunsser, Otto; and Heller, Hubert H., to Gebruder Heller Maschinenfabrik GmbH. Machine tool with additional tool magazine. 3,688,362, 9-5-72, Cl. 29-26.000.
Durr, Heinz, to Durr, Otto. Method for treating the surfaces of vehicle bodies. 3,705,817, 12-12-72, Cl. 117-49.000.
Durr, Helmut: *See—*
Wagner, Karl; and Durr, Helmut, 3,672,286.
Durr, Helmut, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with automatic exposure control means. 3,641,888, 2-15-72, Cl. 95-10.
Durr, Helmut. Photographic apparatus with indicating means for selected exposure time and aperture size. 3,678,824, 7-25-72, Cl. 95-10.0ce.
Durr, Helmut Emil; and Haller, Albert Heinz, to Western Electric Company, Incorporated. Method for inserting material into the apertures of an apertured workpiece. 3,660,161, 5-2-72, Cl. 136-67.
Durr, Larry L.; and Clay, Byron Jan, to Textile Technology, Inc. Textile treating processing and apparatus involving both water and an immiscible solvent. 3,692,467, 9-19-72, Cl. 8-158.000.
Durr, Otto: *See—*
Durr, Heinz, 3,705,817.
Durran, Donald A.; and Platus, Daniel H., to United States of America, Air Force. Spin control system for reentry vehicle. 3,690,596, 9-12-72, Cl. 244-3.210.
Durrant, George G.; and Cowe, Peter L., to Laporte Industries Limited. Treatment of pigments. 3,649,321, 3-14-72, Cl. 106-300.
Durrum Chemical Corporation: *See—*
Benson, James R., 3,686,118.
Durrum Instrument Corporation: *See—*
Tipotsch, Donald G., 3,637,311.
Durrwachter, Eugen; and Reichert, Otto, to Durrwachter, Eugen, Dr., DODUCO. Process for a continuous selective electroplating of strip. 3,691,026, 9-12-72, Cl. 204-28.000.
Durrwachter, Eugen, Dr., DODUCO: *See—*
Durrwachter, Eugen; and Reichert, Otto, 3,691,026.
Durso, Alphonse J.: *See—*
Pescuma, Gerald F.; Durso, Alphonse J.; and Brown, Walter T., 3,665,738.
Durso, August J.: *See—*
Durso, August J.; Maurer, Frank C.; and McEnery, John F. (said Maurer and said McEnergy assor. to said), 3,648,872.
Durso, August J.; Maurer, Frank C.; and McEnery, John F., said Maurer and said McEnergy assor. to said Durso, August J. Safety container and closure cap unit therefor. 3,648,872, 3-14-72, Cl. 215-9.
D'Urso, Gianfranco: *See—*
Teagno, Wladimiro; and D'Urso, Gianfranco, 3,633,156.
Teagno, Wladimiro; and D'Urso, Gianfranco, 3,634,811.
Durst, David L. Collapsible sauna. 3,648,299, 3-14-72, Cl. 4-160.
Durst, Felix. Device for cleaning venetian blind slats. 3,643,277, 2-22-72, Cl. 15-77.
Durst, Reuben H.: *See—*
Calaceto, Ralph R.; Durst, Reuben H.; and Millar, David, 3,638,924.
Durst, Richard R.; and Uelzmann, Heinz, to General Tire & Rubber Company, The. Titanium trihalide-amine hydrohalide complexes. 3,700,707, 10-24-72, Cl. 260-429.500.
Durstewitz, Gerald: *See—*
Cirillo, John; and Durstewitz, Gerald, 3,637,110.
Durstewitz, Gerald, to Kidde, Walter, & Company, Inc. Frictionless bi-directional inertia responsive gas dispensing apparatus. 3,661,299, 5-9-72, Cl. 222-3.
Durteste, Bernard Pierre; Henrion, Michel Andre Robert; and Le Corre, Jean-Pierre; deceased (by Le Corre, Yvette Marie Laurence; administrator), said Durteste and said Henrion assors. to International Standard Electric Corporation. Scanning circuits. 3,692944, 9-19-72, Cl. 179-18.0ff.
Durteste, Bernard Pierre Jean; Gadre, Jean-Claude; and Loisel, Jean Francois Pierre Julien, to International Standard Electric Corporation. Signalling supervision unit. 3,657,698, 4-18-72, Cl. 340-146.1.
Durwood, Inc.: *See—*
Schumann, Robert J.; and Priest, Wayne A., 3,663,826.
Duryea, George R.: *See—*
Weatherston, Roger C.; and Duryea, George R., 3,667,874.
Duschinsky, Robert: *See—*
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,641,047.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,679,698.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,700,698.
Dusek, Ervin F., to Reliable Manufacturing Corporation. Popcorn popper. 3,699,874, 10-24-72, Cl. 99-238.100.
Dusenbery, John, Company, Inc.: *See—*
Young, Roger W., 3,651,728.
Dushkes, Sherman Z.; and Trollmann, Conrad, to International Business Machines Corporation. Hot gas solder removal. 3,653,572, 4-4-72, Cl. 228-20.
Dushkes, Sherman Z.; and Surty, Rohinton J., to International Business Machines Corporation. Miniature ultrasonic bonding device. 3,670,944, 6-20-72, Cl. 228-1.000.
Dusik, Josef: *See—*
Havranek, Milan; Zouhar, Drahomir; Dusik, Josef; Kucera, Jaromir; and Krejcirik, Jiri, 3,673,818.
Dusing, Gerhard: *See—*

Kuhner, Gerhard; Sauer, Heinrich; Jager, Gerhard; and Dusing, Gerhard, 3,701,480.

Duss, Walter, to Peyer, Siegfried. Multiple operating head machines, particularly multiple spindle textile spooling machines with supervisory operating time indicator. 3,697,732, 10-10-72, Cl. 235-151.300.

Dussardier, Claude J., to Norgren, C. A., Co. Lubricator sight feed dome. 3,707,204, 12-26-72, Cl. 184-55.00a.

Dussel, Paul E., to Falls Machine Company. Longitudinally divided tube and method of making the same. 3,692,060, 9-19-72, Cl. 138-89.000.

Dussich, Joseph A. Method and apparatus for axially compressing and storing flexible tubular material. 3,681,889, 8-8-72, Cl. 53-3.000.

Dussourd, Jules L.; and Haugen, Ronald L., to Ingersoll-Rand Company. Gas drying apparatus and method. 3,696,588, 10-10-72, Cl. 55-163.000.

Dust, Hanspeter: *See*—
Lewer, Hans; Dust, Hanspeter; and Thoennes, Martin, 3,657,135.
Witten-Annen, Hans Lewer; Dust, Hanspeter; and Thonnes, Martin, 3,681,246.

Dustikin Products, Inc.: *See*—
Scheuer, Fred F., 3,664,064.

Dustin, Daniel S., to Minnesota Mining and Manufacturing Company. Presensitized light-sensitive letterpress printing makeready. 3,703,362, 11-21-72, Cl. 96-38.200.

Duswalt, Allen A., to Hercules Incorporated. Process for stabilizing hydrox compositions containing magnesium oxides. 3,692,687, 9-19-72, Cl. 252-184.000.

Dusza, John Paul: *See*—
Joseph, Joseph Peter; Dusza, John Paul; and Bernstein, Seymour, 3,678,029.

Duszka, Stephen. Loading device for trucks. 3,642,154, 2-15-72, Cl. 214-83.24.

Dutcher, Daniel P., to Hoerner-Waldorf Corporation. Display carton. 3,664,493, 5-23-72, Cl. 206-45.14.

Dutcher, Daniel P., to Hoerner-Waldorf Corporation. Display carton. 3,670,881, 6-20-72, Cl. 206-45.340.

Dutcher, Daniel P., to Hoerner-Waldorf Corporation. Covered tray package. 3,675,764, 7-11-72, Cl. 206-45.340.

Duthie, Robert W.: *See*—
Panter, Robert B.; Dufton, John Peter; Duthie, Robert W.; and Verbaas, George, 3,678,197.

Duthion, Louis; and Seguela, Claude Jean-Marie. Feed unit for a fuel burner. 3,658,302, 4-25-72, Cl. 259-18.

Duthoit, Jean: *See*—
Plumat, Emile; Duthoit, Jean; Toussaint, Francois; and Van Laethem, Robert, 3,632,321.

Dutkewych, Oleh B.: *See*—
Gulla, Michael; and Dutkewych, Oleh B., 3,663,242.
Shipley, Charles R., Jr.; and Dutkewych, Oleh B., 3,650,959.

Dutkewych, Oleh Borys: *See*—
Shipley, Charles Raymond; Gulla, Michael; and Dutkewych, Oleh Borys, 3,677,776.

Dutkiewicz, Bronislaw K., to Stone & Webster Engineering Corporation. Heating apparatus and process. 3,677,234, 7-18-72, Cl. 122-240.00a.

Dutkwych, Oleh B.: *See*—
Gulla, Michael; and Dutkwych, Oleh B., 3,649,308.

Dutnell, Richard C. Pop top closure. 3,637,104, 1-25-72, Cl. 220-25.

Dutot, Christian, to Regie Nationale des Usines Renault and Automobiles Peugeot. Devices for guiding movable assemblies. 3,649,090, 3-14-72, Cl. 308-3.6.

Dutra, Joseph G., Jr. Pruning shears. 3,688,405, 9-5-72, Cl. 30-135.000.

Dutro, Lyle V.: *See*—
Glaser, Donald A.; Dutro, Lyle V.; and Pendleton, Woodrow W., 3,656,738.

Dutschke, Thomas W. Harvester. 3,648,870, 3-14-72, Cl. 214-519.

Dutt, Prabir K.: *See*—
Marvel, Carl S.; Bracke, William; and Dutt, Prabir K., 3,635,896.

Duttera, Robert B.; and Macshane, Gordon H., to Teledyne, Inc. Tubular composite self-shielded arc welding electrodes. 3,643,061, 2-15-72, Cl. 219-146.

Dutton, John C., to General Electric Company. High voltage coil assembly for electric induction apparatus. 3,675,175, 7-4-72, Cl. 336-70.000.

Dutton-Lainson Company: *See*—
Molinare, Anthony W., 3,649,080.
Perry, Max W.; and Brockelsby, Norman D., 3,648,728.
Perry, Max W.; and Brockelsby, Norman D., 3,664,556.
Perry, Max W.; and Brockelsby, Norman D., 3,681,550.
Priest, Wayne A.; and Weigand, Arthur D., 3,687,249.

Duval, Bruce: *See*—
Waddington, Rogor Strange; and Duval, Bruce, 3,693,264.

Duval Corporation: *See*—
Bourne, Douglas J.; and Lamb, Frank E., 3,656,892.

Duval, Georges A.; and Hernandez, Francois, to International Standard Electric Corporation. Selection systems for electrical circuits or equipments. 3,701,853, 10-31-72, Cl. 179-18.0ha.

Duvall, David Scott: *See*—
Paulonis, Daniel F.; Duvall, David Scott; and Owczarski, William A., 3,678,570.

Duvall, Harvey H. Film cartridge. 3,690,582, 9-12-72, Cl. 242-71.100.

Duvall, Jacque L., to BASF Wyandotte Corporation. Antifoam agent. 3,705,860, 12-12-72, Cl. 252-358.000.

Duvall, Thomas E.: *See*—
Domin, Daniel J.; and Duvall, Thomas E., 3,707,201.

DuVall, Wilbur E., to Xerox Corporation, mesne. Apparatus for rapid action displacement control. 3,699,555, 10-17-72, Cl. 340-174.10c.

Duve, Gunther: *See*—
Oberst, Hermann; Reihs, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,830.
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Dyonics Inc.: *See—*
Humphrey, William G., Jr.; and Rishton, Michael L., 3,699,950.
Rishton, Michael L., 3,683,167.

Dyre, Eddie L., to Carrier Corporation. Control system for multiple stage absorption refrigeration system. 3,651,655, 3-28-72, Cl. 62-103.

Dyre, Mogens, to Danfoss A/S. Electrically heated catalytic air purifier. 3,654,432, 4-4-72, Cl. 219-374.

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Dyreng, Ray Morgan. Scraping machine and allied structure. 3,680,166, 8-1-72, Cl. 15-93.00b.

Dyroff, David R.; and Ruest, Dennis A., to Monsanto Company. Dehydrogenation process. 3,632,662, 1-4-72, Cl. 260-683.3.

Dyroff, David R., to Monsanto Company. Crystalline from V ammonium polyphosphate and process for producing same. 3,687,695, 8-29-72, Cl. 106-3.000.

Dyrschka, Helmut: *See—*
Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glaser, Hermann; and Dyrschka, Helmut, 3,637,819.
Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glader, Hermann; and Dyrschka, Helmut, 3,650,986.

Dysart, Theodore R., to Dresser Industries, Inc. Borehole reamer-stabilizer with improved fluid circulation. 3,659,663, 5-2-72, Cl. 175-325.000.

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Niskovskikh, Vitaly Maximovich; Dyshkant, Viktor Fedorovich; and Kuznetsov, Leonid Georgievich, 3,685,571.

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Dyson, John J., to Parker Pen Company, The. Article having light-resistant simulated anodized aluminum coating. 3,632,395, 1-4-72, Cl. 117-72.

Dyson, Norman H. Resolution of 2-(6-methoxy-2-naphthyl)propionic acid. 3,683,015, 8-8-72, Cl. 260-520.000.

Dyson, Norman H., to Syntex Corporation. Preparation of optical isomers of arylalkylacetic acids. 3,686,183, 8-22-72, Cl. 260-284.000.

Dzerzhinsky filial nauchno-Issledovatelskogo i Konstruktorskogo Instituta Khimicheskogo Mashi-Nastroenia: *See—*
Vagin, Alexei Alexeevich; Shalygin, Veniamin Nikolaevich; Shiborin, Viktor Ivanovich; Murakhver, Vladimir Ilich; and Sharov, Nikolai Grigorievich, 3,682,569.
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Dzevitsky, Boris Eduardovich; Spitsyn, Boris Vladimirovich; Kochkin, Dmitry Alexandrovich; and Deryagin, Boris Vladimirovich. Producing diamonds synthetically. 3,705,937, 12-12-72, Cl. 423-446.000.

Dzhanelidze, Vazna Venediktovich: *See—*
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Dziedzic, Jan. Electrical sensing device for measurement of liquid metal. 3,678,748, 7-25-72, Cl. 73-290.00r.

Dzierski, Stanley F.: *See—*
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Dzierzanowski, Frank J.: *See—*
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Haden, Walter L., Jr.; and Dzierzanowski, Frank J., 3,657,154.
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Dziggel, Reiner: *See—*
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Dziuk, Peter, to Staedtler, J. S. Vibration device. 3,660,860, 5-9-72, Cl. 15-94.

Dzus Fastener Co., Inc.: *See—*
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Gunther, Conrad J., 3,688,352.

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E&M Laboratories: *See—*
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E-C Corporation: *See—*
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Pfenning, Dwight B.; and Brown, Robert L., 3,686,090.

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Deering, Charles S., 3,700,987.
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Gershberg, David N.; and Lee, Alex Y., 3,703,722.
Usry, Joe D., 3,700,209.
Usry, Joe D., 3,703,185.

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Schaffner, Myer J., 3,664,633.

E-Z-Em Company, Inc.: *See—*
Greene, Franklin R., 3,641,999.

Eacho, William H., to Schulmerich Manufacturing Co., mesne. Security camera with tape indicator. 3,637,300, 1-25-72, Cl. 352-121.

Eachus, Joseph J., to Honeywell Inc. Single stage differential amplifier. 3,660,774, 5-2-72, Cl. 330-30.

Eachus, Joseph J., to Honeywell, Inc. Array method and apparatus for encoding, detecting, and/or correcting data. 3,685,016, 8-15-72, Cl. 340-146.1al.

Eacock, Michael F., to Polaroid Corporation. Photographic film handling and processing system. 3,648,584, 3-14-72, Cl. 95-13.

Eaddy, William P., to Deering Milliken Research Corporation. Process for improving adhesion of vinyl resins to a polyamide and resultant product. 3,635,749, 1-18-72, Cl. 117-76.

Eade, Glen G.; and Eade, Ronald E. Centrifugal spring type projectile throwing device. 3,659,576, 5-2-72, Cl. 124-7.

Eade, Ronald E.: *See—*
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Eades, Edward Denis Michael; and Hughes, Philip Richard, to Imperial Chemical Industries Limited. Conversion of olefins. 3,652,704, 3-28-72, Cl. 260-683.

Eadon-Allen, Stuart, to Dollond and Aitchison Services Ltd. Calculating device. 3,690,547, 9-12-72, Cl. 235-70.00r.

Eads, Charles L.; and Nail, Billie G., to Adams Rite Manufacturing Company. Lock mounting clip and placement tool therefor. 3,659,445, 5-2-72, Cl. 70-451.

Eads, Charles L.; and Brotman, Harry D., to Adams Rite Manufacturing Company. Narrow stile latch-lock structure. 3,695,068, 10-3-72, Cl. 70-107.000.

Eads, Ewin A., to Lamar State College of Technology. Sampling and analysis of sulfur compounds. 3,650,696, 3-21-72, Cl. 23-230.

Eads, Harold L.: *See—*
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Eagen, John F.: *See—*
Gudelis, David A.; and Eagen, John F., 3,644,195.

Eagen, John F.; and Richards, John F., to Esso Research and Engineering Company. Immiscible filtration of dilution chilled waxy oils. 3,681,230, 8-1-72, Cl. 208-33.000.

Eager, George S., Jr.; Silver, David A.; and Katz, Carlos. Pipe type cables with improved skid wire protection. 3,673,307, 6-27-72, Cl. 174-25.00r.

Eagle, John H.: *See—*
Stimson, Allen G.; and Eagle, John H., 3,661,466.

Eagle, John H., to Eastman Kodak Company. Film cartridge having a lens aperture stop. 3,631,782, 1-4-71, Cl. 95-31.

Eagle, John H.; deceased (by Eagle, Lee A; executrix; and Lincoln Rochester Trust Company; executor), to Eastman Kodak Company. Means for adjusting camera low-light signal in accordance with film exposure latitude. 3,678,827, 7-25-72, Cl. 95-10.0cd.

Eagle, Lee A: *See—*
Eagle, John H., 3,678,827.
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Eagle Range & Manufacturing Company: *See—*
Vocke, Elmer E.; and Baltz, Albert L., 3,676,643.

Eagle Range and Manufacturing Company: *See—*
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Eagle, Robert E.: *See—*
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Eagle-Picher Industries, Inc.: *See—*
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Fluesmeier, Arsdel L., 3,682,590.
Fulton, Samuel R.; and Beal, Lawrence E., 3,687,780.
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Schneider, Harry E.; and Plankenhorn, William J., 3,636,293.

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Eagles, Alan Charles: *See—*
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Eagleson, Clegg: *See—*
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Eakin, Horace D. Sound discriminator alarm system. 3,683,349, 8-8-72, Cl. 340-258.00d.

Eakins, Paul W., to Foster Brothers Manufacturing Company. Sofa bed folding fixture. 3,636,572, 1-25-72, Cl. 5-13.

Eames, Ronald W., to Chesterfield Tube Company Limited, The. Apparatus for use in forming shells from billets. 3,651,681, 3-28-72, Cl. 72-267.

Eander, Alfred: *See—*
Geiger, Rolf; Ptaff, Werner; Eander, Alfred; Schone, Hans-Hermann; and Mager, Adolf, 3,684,791.

Eanzel, Albert R.; and Preston, John, to Du Pont de Nemours, E. I., and Company. Oil and water repellent compositions. 3,657,173, 4-18-72, Cl. 260-29.6.

Eardley, Stephen; Kennedy, James; and Long, Alan Gibson, to Glaxo Laboratories Limited. Cephalosporin compounds. 3,658,799, 4-25-72, Cl. 260-243.

Eargle, William R., to Westinghouse Electric Corporation. Hinge and latch mechanism for fluorescent luminaire. 3,697,743, 10-10-72, Cl. 240-147.000.

Eargle, William R., Jr.: *See—*
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Earhart, Howard F.; Jacoby, Frederick J.; and Starck, Clemmens B., to Eastman Kodak Company. Photographic articles and materials useful in their manufacture. 3,635,855, 1-18-72, Cl. 260-17.

Earing, Mason H., to General Electric Company. Thermal-overload protective arrangement for inductive devices. 3,675,081, 7-4-72, Cl. 317-15.000.

Earing, Mason H., to General Electric Company. Epoxy resin cement. 3,677,995, 7-18-72, Cl. 260-37.0ep.

Earl, Alma L., to United States Steel Corporation. Method for producing pelletized ammonium sulfate-ammonium nitrate material. 3,635,691, 1-18-72, Cl. 71-59.

Earl and Wright: *See—*
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Earl, I. T. Desmond, to Textron Inc. Air cushion support space defining structure an stocksheet fabrication therefor. 3,690,401, 9-12-72, Cl. 180-124.000.

Earl, William C.: *See—*
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Earle, Ernest L., Jr.: *See—*
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Earle, Glenn J.: *See—*
Dereich, John E.; Gleeson, James E.; and Earle, Glenn J., 3,693,548.

Earle, Harold Westly; and Shelton, Douglas Sidney, to Bell Telephone Laboratories, Incorporated. Call diverter repeater. 3,689,711, 9-5-72, Cl. 179-170.600.

Earle, John Goodell: *See—*
Blackwell, Wayne Waldo; Earle, John Goodell; O'Connell, John Joseph; Pierce, Edwin Bruce; and Shabe, John Edward, 3,704,453.

Earle, William E.: *See—*
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Earley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Preparation of amidines from amides. 3,644,335, 2-22-72, Cl. 260-239.

Earley, James Valentine; Fryer, Rodney Ian; Ye-Fong Ning, Robert; and Sternbach, Henryk, to Hoffmann-La Roche Inc. Process for preparing 1-lower alkyl-1,4-benzodiazepin-2-ones. 3,681,341, 8-1-72, Cl. 260-239.30d.

Earley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk. 1-Carboxyalkyl or 1-carboxyalkenyl-1, 4-benzodiazepin-2-ones. 3,703,510, 11-21-72, Cl. 260-239.30d.

Earley, Joseph J.: *See—*
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Earlougher, Robert C., Jr., to Marathon Oil Company. Miscible-type recovery process using foam as a mobility buffer. 3,648,772, 3-14-72, Cl. 166-273.

Earls, David: *See—*
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Earls, David E.: *See—*
Freeman, John D.; and Earls, David E., 3,658,209.

Early, Jack D.; and Chupp, John P., to Monsanto Company. 4'-Cyano-5-halo-3-phenylsalicylanilides. 3,636,038, 1-18-72, Cl. 260-465.

Early, Jack D.; and Chupp, John P., to Monsanto Company. Substituted 5-halo-3-phenylsalicylanilides. 3,636,107, 1-18-72, Cl. 260-559.

Early, Jack D.; and Chupp, John P., to Monsanto Company. Substituted 5-halo-3-phenylsalicylanilides. 3,639,475, 2-1-72, Cl. 260-559.

Early, James R.; Eyring, William M.; McGrath, Donald W.; and Takenaka, Toshio, to Garrett Corporation, The. Method of brazing. 3,685,139, 8-22-72, Cl. 29-498.000.

Early, Judson H., to Domain Industries, Inc. Labeling machine. 3,664,222, 5-23-72, Cl. 83-205.000.

Early, Robert E., to General Motors Corporation. Tube bender. 3,662,581, 5-16-72, Cl. 72-305.000.

Early, Robert M.; and Raes, Maurice C., to Olin Corporation. Dielectrically heat sealable polyurethane foam. 3,674,718, 7-4-72, Cl. 260-2.5aq.

Early, Roger: *See—*
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Earp, Charles William; and Overbury, Francis Giles, to International Standard Electric Corporation. Distance measuring equipment. 3,633,204, 1-4-72, Cl. 343-112.

Earp, Charles William; and Overbury, Francis Giles, to International Standard Electric Corporation. Radio navigation beacon utilizing a commutator which supplies radio frequency in succession to several aerials. 3,670,337, 6-13-72, Cl. 343-108.000.

Earp, Charles William, to International Standard Electric Corporation. Radio navigation receiving equipment. 3,670,338, 6-13-72, Cl. 343-108.00m.

Earp, Ronald Lee, to Bell Telephone Laboratories, Incorporated. Chirp pulse generating circuits. 3,654,491, 4-4-72, Cl. 307-262.

Earth Sciences, Inc.: *See—*
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Easley, Charles E.; and Wosaba, Charles L., II, to Procter & Gamble Company, The. Expandable airfelt pad. 3,653,382, 4-4-72, Cl. 128-284.
Easley, Sydney Eugene, to General Motors Corporation. Damped shaft coupling. 3,686,895, 8-29-72, Cl. 64-1.00v.
Eason, John W., Jr.: *See—*
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Easoz, Robert D., to North American Rockwell Corporation. Composite fountain blade construction for remote ink control system. 3,699,888, 10-24-72, Cl. 101-365.000.
East, Jerry L., to Simplimatic Engineering Co. High speed container draining apparatus. 3,690,486, 9-12-72, Cl. 214-311.000.
East, Jerry L., to Simplimatic Engineering Co. Automatic bottle packing method and apparatus. 3,694,993, 10-3-72, Cl. 53-26.000.
East Ohio Gas Company, The: *See—*
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East, Victor. Symmetrical golf club head with center of gravity coincident with geometric center. 3,693,978, 9-26-72, Cl. 273-167.00f.
Eastall, Martin Harold, to British Domestic Appliances Limited. Clothes washing and spin drying machines. 3,640,098, 2-8-72, Cl. 68-12.
Eastcott, Peter de Hertel; and Jackson, William Herbert, to Canadian General Electric Company, Limited. Pneumatic brake actuator. 3,692,153, 9-19-72, Cl. 188-170.000.
Eastcott, Peter de Hertel; and Jackson, William Herbert, to Canadian General Electric Company Limited. Fastening of treads to drive wheel of friction mine hoist. 3,692,280, 9-19-72, Cl. 254-190.000.
Eastcott, Peter de Hertel; and Welch, James Ernest, to Canadian General Electric Company Limited. Means for attaching a hub to a shaft. 3,698,750, 10-17-72, Cl. 287-52.00r.
Eastcott, Peter de Hertel, to Canadian General Electric Company, Limited. Signalling system for mine hoists. 3,705,640, 12-12-72, Cl. 187-29.00r.
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Easter, Ross A., to Pillsbury Company, The. Container for diluting and dispensing material. 3,655,096, 4-11-72, Cl. 222-82.
Easterbrooks, David S., to Ana Maria, Inc. Eye makeup compact with slide trays. 3,637,278, 1-25-72, Cl. 312-227.
Easterly, Donald O.; and Brown, Morris E., to Eastman Kodak Company. Reversible web transporting apparatus. 3,664,605, 5-23-72, Cl. 242-189.000.
Easterly, Donald O.; and Olcott, Raymond E., to Eastman Kodak Company. Cinematographic projector having a film supply spindle assembly. 3,664,608, 5-23-72, Cl. 242-204.000.
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Eastler, William E., Jr., to Itek Corporation. Transparent imaging medium. 3,700,437, 10-24-72, Cl. 96-8.000.
Eastman, Dean E.; Holtzberg, Frederic; and Methfessel, Siegfried I. Rare earth chalcogenide thermionic emission cathodes. 3,636,399, 1-18-72, Cl. 313-346.
Eastman, Donald R.: *See—*
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Eastman, Hal P., to International Business Machines Corporation. Information retrieval system and method. 3,676,851, 7-11-72, Cl. 340-172.500.
Eastman, James M., to Bendix Corporation, The. Fluid pressure ratio sensing device. 3,707,159, 12-26-72, Cl. 137-81.500.
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Economu, Merle A. Linear displacement transducer system. 3,643,198, 2-15-72, Cl. 338-162.
Economy Company: *See—*
De Bell, Lawrence R.; and Price, David D., Jr. (said De Bell assor. to), 3,691,314.
De Bell, Lawrence R.; and Price, David D., Jr., 3,705,271.
Economy Forms Corporation: *See—*
Jennings, Ralph L., 3,650,078.
Jennings, Ralph L., 3,693,927.
McCracken, Lyde S., 3,650,081.
Economy, James: *See—*
Cottis, Steve G.; Economy, James; and Nowak, Bernard E., 3,637,595.
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Nowak, Bernard E.; Cottis, Steve G.; Economy, James; and Steiner, Paul J., 3,644,593.
Nowak, Bernard E.; Economy, James; and Cottis, Steve G., 3,662,052.
Nowak, Bernard E.; Cottis, Steve G.; and Economy, James, 3,668,300.
Economy, James; and Clark, Rodger A., to Carborundum Company, The. Fibers from novolacs. 3,650,102, 3-21-72, Cl. 57-140.
Economy, James; Cottis, Steve G.; and Nowak, Bernard E., to Carborundum Company, The. Oxybenzoyl polyester coatings. 3,656,994, 4-18-72, Cl. 117-62.
Economy, James; and Lin, Ruey-Yuan, to Carborundum Company, The. High modulus boron nitride fibers. 3,668,059, 6-6-72, Cl. 161-170.000.
Economy, James; Wohrer, Luis C.; and Mason, John H., to Carborundum Company, The. Unsaturated polyester resins modified with organic dibasic acid salts. 3,674,894, 7-4-72, Cl. 260-875.000.
Econonou, Peter, to American Cyanamid Company. Amphoteric strengthening agents for paper. 3,660,338, 5-2-72, Cl. 260-29.6.
ECP Manufacturing Co.: *See—*
Weiss, Irving F., 3,705,949.
Ecsery, Zoltan; Kosa, Ildiko; and Knoll, Jozsef, to Chinoin Gyogyszer-es Vegyeszeti Termekek Gyara RT. Amidine derivatives with spasmolytic, psychostimulant and anorexigenic properties. 3,663,610, 5-16-72, Cl. 260-518.
Eda, Korekiyo: *See—*
Ohno, Yoshio; Eda, Korekiyo; Tamamura, Toshio; and Yamasaki, Kosaburo, 3,687,784.
Takahashi, Kenji; Yamamura, Toshio; Ono, Mitsuzo; and Eda, Korekiyo, 3,673,125.
Edac Company: *See—*
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EdAids, Inc.: *See—*
Oberst, Charles V.; and Oberst, Glen C., 3,676,939.
Edamitsu, Masayuki: *See—*
Fujita, Hideo; Ishitobi, Masami; Suga, Hiroyoshi; Ishiwari, Keishiro; Yotsui, Yoshikazu; Yamashita, Tadao; Edamitsu, Masayuki; and Moriwaki, Shokichi, 3,701,720.
Edco Corporation: *See—*
Wohl, Charles J.; Schere, Jonathan L.; and Costello, Thomas V., 3,676,839.
Edcodyne Corporation: *See—*
Shannon, James L., 3,634,953.
Edde, Ernest Howard. Automatic fishing lure. 3,631,624, 1-4-72, Cl. 43-35.
Eddowes, Alfred M.: *See—*
Gagliardi, Richard P.; Beans, Allen F.; Eddowes, Alfred M.; and Greenblatt, Herbert, 3,701,153.
Eddy, Clifford O.: *See—*
Barter, James A.; Eddy, Clifford O.; and Stevens, Henry C., 3,642,755.
Eddy, John W., to GTE Automatic Electric Laboratories Incorporated. Marker path finding arrangement including sound immediate ring. 3,678,208, 7-18-72, Cl. 179-18.0ge.
Eddy, John W.; Fitch, Harold G.; Mui, Wing F.; and Valente, Angelo M., to GTE Automatic Electric Laboratories Incorporated.

Marker for communication switching system. 3,681,537, 8-1-72, Cl. 179,18.0ge.

Eddystone Machinery Company: *See*—
Clark, William Russell, 3,633,839.
Clark, William Russell, 3,633,840.
Clark, William Russell, 3,678,646.

Ede, Ainsley N. Trenchless laying of pipe underground. 3,641,780, 2-15-72, Cl. 61-72.4.

Ede, Ainsley Neville, to Hudswell Yates Developments Limited. Mole plough depth control mechanism. 3,670,431, 6-20-72, Cl. 37-193.000.

Edelberg, Alan K.; and Swanfeldt, Roy T., to United States Shoe Corporation, The. Apparatus for assembling insole strips. 3,661,681, 5-9-72, Cl. 156-546.

Edelberg, Alan Y.; and Hill, Jimmy E., to West Products Corporation. Anchor line reel assembly. 3,645,468, 2-29-72, Cl. 242-107.

Edeleanu Gesellschaft m.b.H.: *See*—
Franz, Hermann; and Kunert, Max, 3,661,766.
Hoppe, Alfred, 3,650,942.

Edelfettwerke Werner Schlueter: *See*—
Neissner, Rudolf; and Schulz, Eckhard, 3,689,514.

Edeling, Curt; and Eisenmann, Joseph, to Elektro-Thermit GmbH. Frog. 3,697,747, 10-10-72, Cl. 246-468.000.

Edelman, Alfred E. Adapter for dental implants. 3,683,501, 8-15-72, Cl. 32-10.00a.

Edelman, Alfred E. Tool for inserting dental implants. 3,690,005, 9-12-72, Cl. 32-40.00r.

Edelman, Alfred E. Dental implant extracting tool. 3,702,028, 11-7-72, Cl. 32-61.000.

Edelman, Robert I.; and Edwards, Evan A., to Eastman Kodak Company. Treating apparatus. 3,683,780, 8-15-72, Cl. 95-94.00r.

Edelmann & Ridder: *See*—
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Edelmann, E., & Co.: *See*—
Wallskog, Alan G., 3,691,847.

Edelson, Andrew C. Circuit for controlling the duration of an interval between sound signals. 3,684,895, 8-15-72, Cl. 307-132.00e.

Edelson, Leo: *See*—
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Edelstein, Harold P.; and Smith, Roy B., to Transportation Specialists, Inc. Lubrication system and reservoir therefor. 3,659,675, 5-2-72, Cl. 184-39.

Eden, Dayton D.: *See*—
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Eden, Jamal S., to Goodrich, B. F., Company, The. Preparation of unsaturated aldehydes and acids. 3,634,502, 1-11-72, Cl. 260-533.

Eden, Jamal S., to Goodrich, B. F., Company, The. Catalyst for preparing unsaturated acids and aldehydes. 3,664,968, 5-23-72, Cl. 252-437.000.

Eden, Jamal S., to Goodrich, B. F., Company, The. Catalyst for preparation of unsaturated aldehydes and acids. 3,669,909, 6-13-72, Cl. 252-435.000.

Eden, Jamal S., to Goodrich, B. F., Company, The. Catalyst for preparation of unsaturated aldehydes and acids. 3,706,692, 12-19-72, Cl. 252-432.000.

Edenhofer, Albrecht; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. [4'-(Phenyl-3,6-dihydro-1-(2H)-pyridyl]-2-hydroxy propoxy-anilides and derivatives thereof. 3,674,799, 7-4-72, Cl. 260-294.80f.

Edenhofer, Albrecht; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. Substituted [3-(4-phenyl-1-piperazinyl) propoxy or propyl thio] anilines. 3,701,777, 10-31-72, Cl. 260-268.0ph.

Edenhofer, Albrecht; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. Heterocyclically substituted dibenzo (a,d) cyclohepta (dien-5-ones). 3,705,168, 12-5-72, Cl. 260-293.620.

Edenhofer, Albrecht; Ramuz, Henri; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. Certain 4[3-[4-(phenyl)-3,6-dihydro-1(2H) pyridyl]-2-hydroxy-propoxy]-benzophenones. 3,706,755, 12-19-72, Cl. 260-297.00r.

Eder, Erich, to Kronseder, Hermann. Device for feeding labels into labeling machines. 3,652,082, 3-28-72, Cl. 271-36.

Eder, Heinz: *See*—
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Eder, Otto: *See*—
Schwab, Johann; Buchel, Kurt; Eder, Otto; Hascic, Wladimir; and Marek, Ludwig, 3,698,027.

Eder, Ulrich; Berndt, Hans-Detlef; Kerb, Ulrich; Wiechert, Rudolf; Zollner, Georg; Buchschacher, Paul; Furlenmeier, Andre; Furst, Andor; and Muller, Marcel, to Hoffmann-La Roche Inc. 18-Amino-pregnanes. 3,661,897, 5-9-72, Cl. 260-239.55.

Edeus, James A., to National Manufacturing Co. Hinge set. 3,648,327, 3-14-72, Cl. 16-153.

Edeus, James A., to National Manufacturing Co. Bifold door hardware. 3,662,808, 5-16-72, Cl. 160-206.

Edfors, John Eric; Romano, Domenic; and Quattrini, Victor, to Honeywell Information Systems, Inc. Computer package cabinet and module system. 3,691,432, 9-12-72, Cl. 317-100.000.

Edgar, D. Brown, Jr., to General Electric Company. Lubricating compositions containing halogen and alkoxy, acyloxy, or hydroxy groups. 3,676,349, 7-11-72, Cl. 252-54.600.

Edgar, Howard M. Structural core. 3,697,633, 10-10-72, Cl. 264-45.000.

Edgar, John Alexander: *See*—
Culvenor, Claude Charles Joseph; Edgar, John Alexander; Smith, Leslie Walter; Tweeddale, Helen Joan; Jago, Marjorie; and French, Eric Ancelot, 3,705,905.

Edgar, Owen Burchell; Hughes, William; Lawrance, Derek Robert; Lederer, Gerald; and Ritchie, Colin Foster, to Imperial Chemical Industries Limited and British Titan Products Company Limited. Polyamides. 3,679,624, 7-25-72, Cl. 260-37.00n.

Edgar, Robert F.; Martzloff, Francois D.; and Tompkins, Russell E., to General Electric Company. Magnetic latch and switch using cobalt-rare earth permanent magnets. 3,671,893, 6-20-72, Cl. 335-179.000.

Edge, Andrew F.; and Hayase, Masashi, to McDonnell Douglas Corporation. Anti-arc induction heating tool. 3,665,138, 5-23-72, Cl. 219-8.500.

Edge, Charles F., to Hughes Aircraft Company. Digital scan converter. 3,633,173, 1-4-72, Cl. 340-172.5.

Edgemond, John W., Jr., to Gulf Oil Corporation. Torque transmitting joint. 3,642,311, 2-15-72, Cl. 287-109.

Edgerton, John Leslie: *See*—
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Edgerton, William H., to Smith Kline & French Laboratories. Poly (aminomethyl) cyclopentanes. 3,641,149, 2-8-72, Cl. 260-563.

Edgewater Corporation: *See*—
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Edgren, Jack C.: *See*—
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Edick Industries, Inc.: *See*—
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Edick, Lee: *See*—
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Edigarian, Zorab Parnakovich; Kudinov, Evgeny Ivanovich; and Sukhov, Vladimir Evgenievich, to Institut geologii i razrabotki goryuchikhiskopaemofh. Vibratory device for taking bottom sediments cores. 3,693,730, 9-26-72, Cl. 175-6.000.

Edin, Ronald E.: *See*—
Brooks, David N.; Paulauskas, Clyde L.; and Edin, Ronald E., 3,654,431.

Edinger, Calvin R. Transport attachment for grain augers. 3,647,052, 3-7-72, Cl. 198-233.

Edington, Robert Alexander: *See*—
Barlow, George Edward; Checkland, Peter Bernard; and Edington, Robert Alexander, 3,651,193.

Edington, Robert Alexander; and Aldred, Derek Harry, to Imperial Chemical Industries, Limited. Bonding of shaped articles of polyester. 3,660,202, 5-2-72, Cl. 156-335.

Edkvist, Ake Evald, to Palson Corporation AB. Methods for manufacturing corrugated board. 3,644,159, 2-22-72, Cl. 156-210.

Edl, Wolfgang; Meyer, Heinz W.; and Schmid, Dieter. Process for polymerization of olefinic compounds. 3,639,370, 2-1-72, Cl. 260-88.7.

Edl, Wolfgang; Faber, Gebhard; Koehler, Michael; Winter, Heinz; and Meyer, Heinz, to Elektochemische Werke Munchen Aktiengesellschaft. Ketone peroxide composition stabilized with an amine. 3,645,908, 2-29-72, Cl. 252-186.

Edlefsen, Thomas B. Racket with replaceable string frame. 3,707,288, 12-26-72, Cl. 273-73.001.

Edlin, Ray L., to Kelco Company. Method of producing a dehydrated food product. 3,694,236, 9-26-72, Cl. 99-199.000.

Edlin, William Joel Reginald. Cleaning apparatus for floor coverings. 3,676,889, 7-18-72, Cl. 15-320.000.

Edlin, William Joel Reginald. Cleaning device. 3,683,953, 8-15-72, Cl. 137-205.500.

Edlis, Stefan T. Ejection actuator for plastic injection mold. 3,645,492, 2-29-72, Cl. 249-68.

Edmaier, Franz; Stiefel, Walter; and Merkle, Hans, to Daimler-Benz Aktiengesellschaft. Cooling installation for liquid cooled internal combustion engine for driving in particular combat-type vehicles. 3,642,062, 2-15-72, Cl. 165-125.

Edmisson, Russell C.: *See*—
Lemkin, Jack L.; Leistikow, Gerard K.; Edmisson, Russell C.; and Benson, John T., 3,670,449.

Edmisson, Russell C.; and Starr, Stanley R., to Mattel, Inc. Looped track system for toy wheeled vehicles. 3,677,469, 7-18-72, Cl. 238-10.00e.

Edmiston, Dorothy Byars. Threshing implements. 3,674,035, 7-4-72, Cl. 130-10.000.

Edmiston, James R.; and Clinton, Harry M., to Swimrite, Inc. Automatic pool cleaner. 3,689,408, 9-5-72, Cl. 210-169.000.

Edmonds, Byron P., to Kalium Chemicals Limited. Solution mining method. 3,652,129, 3-28-72, Cl. 299-4.

Edmonds, James C., to Fuller Company. Apparatus for blending pulverulent material. 3,680,222, 8-1-72, Cl. 34-57.00a.

Edmonds, James T., Jr.: *See*—
Grimes, Monford D.; and Edmonds, James T., Jr., 3,701,665.

Hill, Harold Wayne, Jr.; and Edmonds, James T., Jr., 3,652,327.
Edmondson, John: *See—*
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Edmondson, Locke F.: *See—*
Shenkenberg, David R.; Chang, Jiann C.; and Edmondson, Locke F., 3,692,532.
Edmonston, Robert P.; Gribens, Joel A.; and Simons, Charles W., to Grace, W. R., & Co. Compositions for gaskets having improved resistance to water-based aerosol products. 3,677,993, 7-18-72, Cl. 260-33.60a.
Edmonston, Robert P.; Lefforge, John W.; and Keller, George C., to Grace, W. R., & Co. Plastisols and gaskets. 3,695,477, 10-3-72, Cl. 215-40.000.
Edmund, James Mitchell. safety ski binding. 3,642,297, 2-15-72, Cl. 280-11.35.
Edmunds, John O., to General Motors Corporation. Fluid drive transmission with retarder and controls. 3,659,687, 5-2-72, Cl. 192-4.
Edmunds, William Harold, to Federal Pacific Electric Company. Modular circuit breakers and panelboards with ground-fault protection. 3,636,482, 1-18-72, Cl. 335-6.
Edmundson, Harold E., to Scappoose Industries, Inc. Device for storing and dispensing cut wires and the like. 3,633,793, 1-11-72, Cl. 221-311.
Edo Corporation: *See—*
Brown, Arthur; and Wong, Thomas W., 3,643,148.
Schildkraut, Sid I.; Yates, Albert L.; and Cohn, Peter J., 3,655,482.
Edoco Technical Products, Inc.: *See—*
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Rasmussen, Donald W., 3,665,820.
Edon, Claude: *See—*
Goue, Bernard; Guitard, Louis; and Edon, Claude, 3,645,799.
Edouard Dubied & Cie S.A.: *See—*
Schmid, Ernest Jakal, 3,650,166.
Edsmar, Kurt G., to Sandvikens Jernverks Aktiebolag. Roll device. 3,667,096, 6-6-72, Cl. 29-125.
Edson, Alden P., to International Nickel Company, Inc., The. Magnetostrictive apparatus and process. 3,634,742, 1-11-72, Cl. 318-118.
Edson, Robert H.: *See—*
Sinclair, Alex H.; Kozowyk, Ted; Reynolds, Ralph K.; Neargarder, Robert F.; and Edson, Robert H., 3,642,332.
Edson, William A., to American Electronic Laboratories, Inc. Mechanical tunable bandpass filter. 3,693,115, 9-19-72, Cl. 333-73.00r.
Edstrom, John Olof; Innerman, Sven Eric; Berg, Bengt Henrik; and Mills, Brian Edward, to Sandvikens Jernverks Aktiebolag. Zirconium alloy tube with zirconium hydride inclusions. 3,690,850, 9-12-72, Cl. 29-183.000.
Edstrom, Nils Herbert. Telefonaktiebolaget L M Ericsson Arrangement for voice-frequency signalling in telephone systems. 3,636,269, 1-18-72, Cl. 179-84.
Edstrom, Nils Herbert; and Hemdal, Goran Anders Henrik, to Telefonaktiebolaget L M Ericsson. Process control scanner apparatus. 3,673,577, 6-27-72, Cl. 340-172.500.
Edstrom, Woodrow O.; and Norling, Charles H., to Sperry Rand Corporation. Method of making side entry card guides. 3,673,669, 7-4-72, Cl. 29-428.000.
Edu-Matic Designs, Ltd.: *See—*
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Eduardo's Industries: *See—*
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Penton, Edgar W., 3,653,924.
Educational Research Council of America: *See—*
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Educational Service Programs, Inc.: *See—*
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Educational Tools, Inc.: *See—*
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EDUS Corporation: *See—*
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Edutek Systems Corporation: *See—*
Procop, Alex J.; and Boultinghouse, Ace, 3,704,065.
Edwards, Alan: *See—*
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Loukes, David Gordon; and Edwards, Alan, 3,658,504.
Loukes, David Gordon; and Edwards, Alan, 3,674,453.
Edwards, Alan; and Loukes, David Gordon, to Pilkington Brothers Limited. Coating of glass on a molten metal bath. 3,681,042, 8-1-72, Cl. 65-60.000.
Edwards, Alan H.: *See—*
Delafield, David J.; Edwards, Alan H.; and Owen, Keith, 3,687,644.
Delafield, David James; Edwards, Alan H.; and Owen, Keith, 3,658,707.
Edwards, Albert, to Baker Perkins Limited. Method and apparatus for manufacture of cold setting foundry moulds and cores. 3,704,743, 12-5-72, Cl. 164-21.000.
Edwards, Alfred G.: *See—*
Harris, Glyn I.; and Edwards, Alfred G., 3,632,555.
Edwards, Bernard S.; and Haskell, Vernon C., to Du Pont de Nemours, E. I., and Company. Preparation of coated regenerated cellulose film. 3,656,993, 4-18-72, Cl. 117-56.
Edwards, Clarence K.; and Edwards, Lawrence D. Forming precise reinforced recesses in thermoplastic foams. 3,670,064, 6-13-72, Cl. 264-130.
Edwards, Clarence K.; and Edwards, Lawrence D. Machine for making packaging components of foam material. 3,700,371, 10-24-72, Cl. 425-144.000.
Edwards, Clarence K.; and Edwards, Lawrence D. Model railway switch assembly. 3,700,889, 10-24-72, Cl. 246-415.00a.
Edwards Company, Inc.: *See—*
Berns, Charles, 3,656,156.
Berns, Charles, 3,706,087.
Parsons, Charles H., 3,696,366.
Edwards, Dan M.: *See—*
Grice, Karl R., Jr.; and Edwards, Dan M., 3,706,027.
Edwards, Dare E. Portable heating oven for preheating rigid vinyl sheets. 3,644,708, 2-22-72, Cl. 219-386.
Edwards, David G.: *See—*
Starr, Arthur T.; and Edwards, David G., 3,670,269.
Edwards, David V., to West Products Corporation. Inflatable boat. 3,659,298, 5-2-72, Cl. 9-2.
Edwards, David V. Sailing kit for inflatable boats. 3,682,123, 8-8-72, Cl. 114-39.000.
Edwards, David V. Diaphragm. 3,684,406, 8-15-72, Cl. 417-454.000.
Edwards, David V. Liferaft inflation system. 3,685,066, 8-22-72, Cl. 9-11.00a.
Edwards, Donald W., to Atlas Chemical Industries, Inc. Controlled gelation in aqueous explosives containing boric acid. 3,653,996, 4-4-72, Cl. 149-21.
Edwards, Donald W., to Atlas Chemical Industries, Inc. Aqueous explosive comprising higher amine, gelling agent and inorganic oxidizer salt. 3,695,947, 10-3-72, Cl. 149-2.000.
Edwards, Douglas C.: *See—*
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Edwards, Douglas C.; and Dolezal, Premysl Thomas, to Polymer Corporation Limited. Plasticized terminally active liquid diolefin polymers containing polyalkylenimines. 3,635,865, 1-18-72, Cl. 260-28.5.
Edwards Engineering Corporation: *See—*
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Elliott, John Scotchford; Edwards, Eric Descamp; and Jayne, Gerald John Joseph, 3,632,613.
Edwards, Evan A.: *See—*
Edelman, Robert I.; and Edwards, Evan A., 3,683,780.
Edwards, Evan A. Film cartridge and photographic web for use therewith. 3,684,206, 8-15-72, Cl. 242-71.200.
Edwards, Evan A.; and Van Duzer, Richard H., to Eastman Kodak Company. Filmstrip and film strip retention device. 3,705,696, 12-12-72, Cl. 242-71.200.
Edwards, Everett. Method for preparing animals for slaughter. 3,703,745, 11-28-72, Cl. 17-45.000.
Edwards, Frederick James, to Thermal Syndicate Limited. Method of manufacturing extrudates. 3,660,065, 5-2-72, Cl. 65-66.
Edwards, Frederick James, to Thermal Syndicate Limited. Tiled surface and method of application. 3,676,970, 7-18-72, Cl. 52-385.000.
Edwards, G Byron: *See—*
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Edwards, Garry; Mandler, Walter; and Wagner, Erich, to Leitz, Ernst, G.m.b.H. Four component objective. 3,649,104, 3-14-72, Cl. 350-223.
Edwards, Gayle Dameron; and Moss, Philip Hotchkiss, to Jefferson Chemical Company, Inc. Thiourea compound. 3,681,456, 8-1-72, Cl. 260-552.00r.
Edwards, Harrison F. Ionic wind machine. 3,699,387, 10-17-72, Cl. 317-4.000.
Edwards, Harry, to Imperial Chemical Industries Limited. Manufacture of laminated articles. 3,676,265, 7-11-72, Cl. 156-500.000.
Edwards, Harvey R.: *See—*
Radig, Gary A.; Rowell, Cliva A., Jr.; and Edwards, Harvey R., 3,698,477.
Edwards High Vacuum International Limited: *See—*
Wycliffe, Henryk; and Power, Basil Dixon, 3,677,664.
Edwards, James B., to Procter & Gamble Company, The. Surface-modified cellulose. 3,673,110, 6-27-72, Cl. 252-427.000.
Edwards, James B.; and Haug, Warren R., to Procter & Gamble Company, The. Unleavened, fine grain high volume layer cake mix. 3,676,152, 7-11-72, Cl. 99-94.000.

Edwards, James B., to Procter & Gamble Company, The. Laundering aid. 3,694,364, 9-26-72, Cl. 252-90.000.

Edwards, James D.: *See—*
Bowman, Joe; and Edwards, James D., 3,683,711.

Edwards, James D. Drain spout attachment. 3,667,573, 6-6-72, Cl. 184-1.500.

Edwards, James H.; and Swett, Alan M., to Mohawk Data Sciences Corporation. Means mounting type slugs on toothed belt in chain printers. 3,633,500, 1-11-72, Cl. 101-111.

Edwards, James H., to Mohawk Data Sciences Corporation. Print slug mounting means in type chain assembly. 3,633,501, 1-11-72, Cl. 101-111.

Edwards, James N.: *See—*
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Edwards, James W.; Larrigan, Harry J.; and Mays, Shelly W., Jr., to Electrostatic Printing Corporation, mesne. Electrostatic screen process printing. 3,665,851, 5-30-72, Cl. 101-114.

Edwards, John A.: *See—*
Fried, John H.; Edwards, John A.; and McCrae, William, 3,652,657.
Henrick, Clive A.; Edwards, John A.; and Fried, John H., 3,682,970.
Henrick, Clive A.; Edwards, John A.; and Fried, John H., 3,686,215.
McCrae, William; Fried, John H.; and Edwards, John A., 3,639,462.
McCrae, William; Fried, John H.; and Edwards, John A., 3,658,916.

Edwards, John A., to Syntex Corporation. Ethers containing a hydrophenanthrene nucleus. 3,636,071, 1-18-72, Cl. 260-468.5.

Edwards, John A.; and Fried, John H., to Syntex Corporation. Phenanthrene-2-carboxylic acids. 3,657,329, 4-18-72, Cl. 260-468.5.

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Edwards, Leonard Robert: *See—*
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Edwards, Norman B.: *See—*
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Edwards, Oliver J., Jr., to Raytheon Company. Protective eyeshield. 3,669,523, 6-13-72, Cl. 350-57.000.

Edwards, Paul R., to Edwards Enterprises. Pallet spool assembly. 3,703,050, 11-21-72, Cl. 47-34.110.

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Edwards, Ralph W., to General Motors Corporation. Worm drive mechanism. 3,690,194, 9-12-72, Cl. 74-427.000.

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Ehrreich, John E., to Ercon, Inc. Method of making small plastic particles. 3,648,937, 3-14-72, Cl. 241-15.
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Brazda, Ladislav, deceased; Brazdova, Dagmar; Prochazka, Miloslav; Kaulich, Karel; and Ozdian, Josef (said Prochazka, said Kaulich and said Ozdian assors. to), 3,643,413.
Chvala, Bretislav; Janostik, Jaroslav; Mares, Jindrich; and Jerabek, Jan, 3,683,644.
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Havlas, Jiri; Kostelecky, Premysl; Holy, Zdenek; Rydlo, Jeromir; and Rejnart, Vlastimil, 3,643,843.
Jindra, Karel; Pavlik, Kamil; Kas, Josef; Kocian, Zdenfk; Hanjs, Vaciav; and Tyls, Jaruslav, 3,681,907.
Prochazka, Miloslav; Cesenek, Bedrich; Mach, Vladimir; Kaulich, Karel; Zdenka, Cerveny; and Bradzda, Ladislav (said Prochazka, said Cesenek, said Mach, said Kaulich and said Pacakova assors. to), 3,648,450.
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Havranek, Milan; Zouhar, Drahomir; Dusik, Josef; Kucera, Jaromir; and Krejcirik, Jiri, 3,673,818.
Elitz, Robert W., to Sun Oil Company. Microbiological hydroxylation of aromatic acids. 3,645,847, 2-29-72, Cl. 195-30.
Elizalde, Eduardo Delfin. Joint for sheet elements. 3,660,482, 5-2-72, Cl. 52-537.
Elizer, Lee H., to Hubringer Company, The. Amphoteric, high amylose starches and preparation and uses thereof. 3,650,787, 3-21-72, Cl. 106-213.
Elizer, Lee H., to Hubinger Company, The. Starches containing nonionic, basic and acidic groups and preparation and uses thereof. 3,673,171, 6-27-72, Cl. 260-233.30r.
Elizer, Lee H., to Hubinger Company, The. Textile treatment with amphoteric starch. 3,676,205, 7-11-72, Cl. 117-139.50c.
Elizer, Lee H., to Hubinger Company, The. Amphoteric cellulose and process for the preparation thereof. 3,676,423, 7-11-72, Cl. 260-212.000.
Elka Trust Reg.: *See—*
Roben, Lucas Wilhelmus, 3,646,641.
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Elkhart Welding and Boiler Works, Inc.: *See—*
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Elkin, Robert A. Tubular laminate. 3,687,795, 8-29-72, Cl. 161-47.000.
Elkin, Samuel; and Lieberman, Hillel, to Temple University. Spiro (imidazolidine-4,3'-quinuclidine)-2,5-diones. 3,681,363, 8-1-72, Cl. 260-293.530.
Elking, Alan H.; Groner, Warren; and Saunders, Alex M., to Technicon Instruments Corporation. Method and apparatus for optical analysis of the contents of a sheathed stream. 3,661,460, 5-9-72, Cl. 356-36.
Elkins, James H.: *See—*
Odum, William T.; Elkins, James H.; and Coggings, Thomas M., 3,702,597.
Elkins, James H., to United States of America, Navy. Underwater electrical connector. 3,665,509, 5-23-72, Cl. 339-12.00v.
Elkins, James L. Non-polluting exhaust system for internal combustion engines. 3,677,239, 7-18-72, Cl. 123-119.00a.
Elkins, Johnny C.; and Theriot, Gilbert A. Indexing means for wall panel openings. 3,672,064, 6-27-72, Cl. 33-180.00r.
Elkins, Luejene, to Bunker-Ramo Corporation, The. Telephone handset connector. 3,643,205, 2-15-72, Cl. 339-91.
Elkins, Luejene, to Bunker-Ramo Corporation, The. Cable junction box. 3,683,314, 8-8-72, Cl. 339-39.000.
Elkins, Luejene, to Bunker-Ramo Corporation, The. Cover for feedthrough connector. 3,705,378, 12-5-72, Cl. 339-156.00r.
Elkins, Vance V., Jr. Method of fitting golfer with putter and improving putting accuracy. 3,680,860, 8-1-72, Cl. 273-32.00r.
Elkow, Steven A.; and Van Beek, Kenneth D., to Sola Basic Industries, Inc. Heat treating basket. 3,658,373, 4-25-72, Cl. 294-67.
Elkow, Steven A., to Sola Basic Industries, Inc. Internal idler drum. 3,680,848, 8-1-72, Cl. 263-6.00c.
Elks, Joseph; Phillipps, Gordon Hanley; and Tulley, Alan, to Glaxo Laboratories Limited. 9α-Unsubstituted-11β-chloro-19 nos-steroids. 3,665,021, 5-23-72, Cl. 260-397.45.
Elkuch, Franz, to Etablissement Procor. Electrostatic system for generating periodical mechanical vibrations. 3,641,373, 2-8-72, Cl. 310-6.
Elkuch, Ludwig, to Liongas Aktiengesellschaft. Container filling means. 3,640,320, 2-8-72, Cl. 141-59.
Ellard, James S., Jr., to United States of America, Navy. Latch and hinge device. 3,663,989, 5-23-72, Cl. 16-147.000.
Ellaschuk, Edwin Ivan. Cover for insulator assembly. 3,692,927, 9-19-72, Cl. 174-139.000.
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Elle, John T.: *See—*
Guth, Raymond J.; and Elle, John T., 3,632,965.
Ellen, Peter Edington: *See—*
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Ellenberg, John D.: *See—*
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Ellenberger & Poenigen GmbH: *See—*
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Ellenberger, Jakob, 3,706,057.
Ellenberger, Jakob, to Ellenberger & Poensgen GmbH. Lockswitch. 3,674,952, 7-4-72, Cl. 200-61.640.
Ellenberger, Jakob, to Ellenberger & Poensgen GmbH. Switch overload. 3,675,167, 7-4-72, Cl. 335-179.000.
Ellenberger, Jakob, to Ellenberger & Poenigen GmbH. Safety switch. 3,675,177, 7-4-72, Cl. 337-66.000.

Ellenberger, Jakob, to Ellenberger & Poensgen, GmbH. Single or multi pole push button actuated excess current switch having thermal and/or electromagnetic trip. 3,706,057, 12-12-72, Cl. 335-23.000.
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Ellenbogen, Leon; and Kelly, Robert Gerard, to American Cyanamid Company. 4-Bromo-3-hydroxyhippuric acid and cationic salts thereof. 3,646,121, 2-29-72, Cl. 260-519.
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Petrov, Vitaly Ivanovich; Ivanov, Alexandr Nikolaevich; Olenin, Jury Leonidovich; Eller, Arnold Oskarovich; Butuzov, Anatoly Akimovich; Basin, Abram Moiseevich; Starobinsky, Vladimir Borisovich; Ratner, Efim Rafailovich; and Potapov, Oleg Fedorovich, 3,659542.
Ellerd, Charles J. Power driven articulated container transporting device. 3,666,130, 5-30-72, Cl. 214-621.
Ellers, Frederick S.; Small, Sam W.; and Serpas, Luis B., to Bechtel International Corporation. Offshore loading and unloading of tankers. 3,674,062, 7-4-72, Cl. 141-387.000.
Ellett, Kenneth W.: *See—*
Gaiser, Edward J.; and Ellett, Kenneth W., 3,690,538.
Ellico, Patrick, to O'Toole, Robert J. Rider propelled merry-go-round. 3,642,275, 2-15-72, Cl. 272-33.
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Ellinger, John Henry, to Rolls-Royce Limited. Variable pitch aerofoil blades. 3,672,788, 6-27-72, Cl. 416-43.000.
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Elliot, Ian R., to Rank Organisation Limited, The. Method of making continuous fibre bundle. 3,655,352, 4-11-72, Cl. 65-4.
Elliot Laboratories, Inc.: *See—*
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Elliot, William H.; and Small, Isadore, III, to Cutler-Hammer, Inc. Off-delay solid state timer systems. 3,641,397, 2-8-72, Cl. 317-141.
Elliott Associated Developments Limited: *See—*
Elliott, Herbert James, 3,679,269.
Elliott, Bernard V., to Price, H. C., Co. Self-aligning band for beveling machine. 3,700,223, 10-24-72, Cl. 266-23.0nn.
Elliott, Brian J.; and Staples, John L., to International Business Machines Corporation. Sequential sampling system. 3,704,416, 11-28-72, Cl. 324-121.00r.
Elliott Brothers (London) Limited: *See—*
Davies, Robin John; and Capewell, William Kenneth, 3,669,024.
Leat, Andrew Francis Vincent, 3,696,518.
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Elliott, Daniel R.; Francois, Edgar; and MacDonald, Donald C., to Uniroyal, Inc. Manufacture of radial-filament spheres. 3,637,446, 1-25-72, Cl. 156-69.
Elliott, David G.: *See—*
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Elliott, David Robert; and Greenway, John Michael, to Imperial Chemical Industries Limited. Apparatus for relaxing yarns. 3,644,968, 2-29-72, Cl. 28-1.2.
Elliott, David Robert; and Greenway, John Michael, to Imperial Chemical Industries Limited. Treatment of yarns. 3,696,478, 10-10-72, Cl. 28-12.100.
Elliott, Delbert R.; and Lewis, William T., to Bendix Corporation, The. Skid control system maximum cyclic limiter. 3,697,139, 10-10-72, Cl. 303-21.00p.
Elliott, Ernest A.; Kane, John W.; and Pasen, Randolph A., to Detroit Edison Company, The. Triple arrestor mount. 3,671,002, 6-20-72, Cl. 248-300.000.
Elliott, Eugene R.; and Freborg, Lehner C., to Culligan International Company. Regeneration control and timer system. 3,675,041, 7-4-72, Cl. 307-141.000.
Elliott, Gary L.: *See—*
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Elliott, George E., Jr.; Salomon, Jean; and Vogel, Roger F., to Gulf Research & Development Company. Preparation of hydrogenation catalysts. 3,639,272, 2-1-72, Cl. 252-442.
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Roman, Leonard F.; and Elliott, George H., 3,655,903.
Elliott, Harold V., to General Motors Corporation. Engine starter and power transmission interlock system. 3,703,092, 11-21-72, Cl. 70-248.000.
Elliott, Henry H., to United States of America, Navy. Time recovery system from a pulse modulated radio wave. 3,648,173, 3-7-72, Cl. 325-58.
Elliott, Herbert E.; and Simons, Frank A., to Dow Chemical Company, The. Method of removing coolant from metal surfaces. 3,653,425, 4-4-72, Cl. 164-89.
Elliott, Herbert James, to Elliott Associated Developments Limited. Transport of sulphur. 3,679,269, 7-25-72, Cl. 302-14.
Elliott, James H. Automatic control system for front and loader. 3,643,828, 2-22-72, Cl. 214-762.
Elliott, James H., to Electrical Constructors and Associates. Automatic stop joint for pipe-type cable. 3,652,777, 3-28-72, Cl. 174-11.
Elliott, James Kelly; and Crawford, Douglas W., to Macco Oil Tool Co., Inc. Gas lift apparatus. 3,646,953, 3-7-72, Cl. 137-155.
Elliott, James O.; and Jackson, George W., to General Motors Corporation. Control circuit for adjusting and regulating the speed of a brushless direct current motor responsive to voltages induced in the armature windings. 3,667,019, 5-30-72, Cl. 318-254.00.
Elliott, James O., to General Motors Corporation. Segment wipe control for windshield wiper system. 3,675,103, 7-4-72, Cl. 318-281.000.
Elliott, James O., to General Motors Corporation. Pressure responsive motor control circuit for vehicle leveling. 3,681,671, 8-1-72, Cl. 318-481.000.
Elliott, James O., to General Motors Corporation. Windshield wiper system. 3,689,817, 9-5-72, Cl. 318-443.000.
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Elliott, James W., to Electronic Communications Inc. Transverse digital filter. 3,639,848, 2-1-72, Cl. 328-167.
Elliott, John Scotchford; Edwards, Eric Descamp; and Jayne, Gerald John Joseph, to Castrol Limited. Additives for lubricating compositions. 3,632,613, 1-4-72, Cl. 260-401.
Elliott, Joseph E., to International Business Machines Corporation. Compressed coding of digitized quantities. 3,686,631, 8-22-72, Cl. 340-146.03h.
Elliott, Joseph Merelie, to Reyrolle Parsons Limited. Dynamo-electric machine rotors having internally cooled rotor windings. 3,652,882, 3-28-72, Cl. 310-61.
Elliott, Melvin R., 1/2 to Hanscom, Genevieve I., Magnuson, Robert and Thomson, Lois J. Shuffle feed motion transmitting connection. 3,640,378, 2-8-72, Cl. 198-218.
Elliott, Michael, to National Research Development Corporation. Substituted furoic acids and esters thereof. 3,647,824, 3-7-72, Cl. 260-347.5.
Elliott, Perry R. Fluid mixing device. 3,671,025, 6-20-72, Cl. 161-76.000.
Elliott, Phillip M., to Illinois Tool Works Inc. Alternate action mechanism. 3,691,333, 9-12-72, Cl. 200-153.00j.
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Elliott, Robert L., to TRW Inc. Forged piston with circumferential grain flow around upper region of wrist pin bore and method of producing same. 3,654,840, 4-11-72, Cl. 92-222.
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Elliott, Robert R., to Bell & Howell Company. Incremental rotation apparatus. 3,636,781, 1-25-72, Cl. 74-125.5.
Elliott, Roger M., to British Steel Piling Company Limited, The. Fluid operated drop hammer with valved piston. 3,669,198, 6-13-72, Cl. 173-127.000.
Elliott, William E.; and Huff, James R., to Globe Union Inc. Electrochemical cells. 3,645,795, 2-29-72, Cl. 136-86.
Elliott, William G., to SpectraMetrics, Incorporated. Device for gas analysis. 3,651,322, 3-21-72, Cl. 250-43.5.
Elliott, William G., to Spectra Metrics, Incorporated. Echelle spectrometer. 3,658,423, 4-25-72, Cl. 356-98.

Elliott, William G., to Spectra Metrics, Incorporated. Method of focusing the horizontal and vertical components from an echelle grating. 3,658,424, 4-25-72, Cl. 356-98.

Elliott, William S., to Collins Radio Company. Automatic control for amplitude modulated signal source. 3,662,290, 5-9-72, Cl. 332-38.

Ellis (Colchester) Limited: *See—*
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Ellis, A. B.: *See—*
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Ellis, Alan Elgar Herbert, to Ellis (Colchester) Limited. Apparatus for determining the load on a wheel axle in a vehicle. 3,634,635, 1-11-72, Cl. 200-52.

Ellis, Alan F.; and Sabourin, Edward T., to Gulf Research & Development Company. Process for converting an olefin to a product containing higher and lower olefins. 3,646,143, 2-29-72, Cl. 260-683.

Ellis, Alan F., to Gulf Research & Development Company. Process for preparing organic acids. 3,676,473, 7-11-72, Cl. 260-413.000.

Ellis, Alan F.; Kresge, Alfred N.; and Seekircher, Richard, to Gulf Research & Development Company. Process for producing organic acids. 3,676,489, 7-11-72, Cl. 260-533.00r.

Ellis, Alan F.; and Seekircher, Richard, to Gulf Research & Development Company. Process for producing organic acids. 3,691,233, 9-12-72, Cl. 260-533.00r.

Ellis, Alfred Brian Edwin; and Shead, Colin James, to Marconi Company Limited, The. Memory cells. 3,693,170, 9-19-72, Cl. 340-173.0ff.

Ellis, Belvin B.: *See—*
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Ellis, Bernard; Petrow, Valdimir; and Stanway, David Neil. Process for the preparation of pregn-5-ene-4, 20-diones and intermediates in the production thereof. 3,641,008, 2-8-72, Cl. 260-239.55.

Ellis, Brain, to Broadbent, Thomas, & Sons Limited. Control system for maintaining a variable inertia vibrating body substantially at resonance. 3,636,468, 1-18-72, Cl. 331-4.

Ellis, Charles B., to Lennox Industries, Inc. Compressor block with banded motor. 3,666,380, 5-30-72, Cl. 417-415.

Ellis, Clarence E. Integrated accessory group for pick-up trucks. 3,664,704, 5-23-72, Cl. 296-24.

Ellis, Clarence E. Combined charcoal grill and pit barbecue cooker. 3,699,876, 10-24-72, Cl. 99-259.000.

Ellis, Colin R. G.; and Lilly, Rodger H., to Welding Institute, The. Friction welding. 3,678,566, 7-25-72, Cl. 29-470.300.

Ellis Corporation: *See—*
Toth, Alex; and Fesmire, Robert H., 3,672,820.
Toth, Alex, 3,681,952.

Ellis, David H., to Rixson Inc. Closure operator. 3,646,877, 3-7-72, Cl. 98-110.

Ellis, David J.; and Rammler, David, to Syntex Corporation. 5-Alkyl-1,6-fused cycloalkylene-tetra-hydro-1,5-diazine salts. 3,652,564, 3-28-72, Cl. 260-251.

Ellis, David R.; Michels, John; and Gabbert, Ira, to Interdata, Incorporated. Processor servicing external devices, real and stimulated. 3,675,214, 7-4-72, Cl. 340-172.500.

Ellis, Donald A., to Bestt Rollr, Inc. Wipe-on paint applicator with pressurized feed. 3,690,779, 9-12-72, Cl. 401-266.000.

Ellis Engineering, Inc.: *See—*
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Ellis, Forest M. Body attached stilts with vertically adjustable steps. 3,673,615, 7-4-72, Cl. 3-4.000.

Ellis, Frank V., to Cameron Iron Works, Inc. Establishment of a seal between concentric surfaces in a high temperature environment. 3,657,783, 4-25-72, Cl. 29-157.1.

Ellis, Fred S. Twist type spring clip. 3,633,253, 1-11-72, Cl. 24-261.

Ellis, Gaylord O.; and Halat, John A., to Sperry Rand Corporation. Power transmission. 3,698,286, 10-17-72, Cl. 91-486.000.

Ellis, George R.: *See—*
Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., 3,656,148.

Ellis, Gwynn Pennant; and Wragg, Arthur Hedley, to Fisons Pharmaceuticals Limited. Pharmaceutical compositions and methods for the treatment of allergic asthma. 3,652,765, 3-28-72, Cl. 424-282.

Ellis, Jacob B. Rotatable hopper livestock feed dispenser. 3,669,076, 6-13-72, Cl. 119-52.00b.

Ellis, James B.: *See—*
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Ellis, John D., Jr.: *See—*
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Ellis, John H., to Bendix Corporation, The. Electrical connector. 3,665,368, 5-23-72, Cl. 339-60.00r.

Ellis, John T., Jr., to Ellis Engineering, Inc. Fluid pressure amplifier. 3,688,501, 9-5-72, Cl. 60-54.60a.

Ellis, Jonas: *See—*
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Ellis, Larry C.; Chorkey, William J.; and Heideman, Robert J., to Ace Controls Inc. Adjustable shock absorber. 3,666,256, 5-30-72, Cl. 267-34.

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Kise, Mearl A.; and Ellis, Leonard C., 3,647,876.
Kise, Mearl A.; and Ellis, Leonard C., 3,672,829.

Ellis, Linus M., to Du Pont de Nemours, E. I., and Company. Increasing the sugar content of crops with α-ureidooxycarboxylic acids and their derivatives. 3,672,865, 6-27-72, Cl. 71-106.000.

Ellis, Lowell V.: *See—*
Chaparro, John J.; Ellis, Lowell V.; Meanor, Doyle W.; Morton, William D., Jr.; Richelmann, Bernd H.; Ross, George B.; and Toth, John E., 3,677,401.

Ellis, Myron P.; and Gavasso, Richard J., to Micromatic Hone Corporation. Electroplate honing method. 3,637,469, 1-25-72, Cl. 204-26.

Ellis, Nyron P.; Czubak, Albin S.; and McDonald, Keith A., to Micromatic Hone Corporation. Method for simultaneously machining the center bore of a gear workpiece and the end faces perpendicular to the axis of the center bore. 3,699,724, 10-24-72, Cl. 51-27.000.

Ellis, Paul H.; Kibler, Ralph J.; and Kramer, Richard R., to United States of America, Army. Grenade launcher with pivotally mounted barrel. 3,641,691, 2-15-72, Cl. 42-1.

Ellis, Peter H.: *See—*
Colebrook, Ross W.; and Ellis, Peter H., 3,650,348.

Ellis, Peter H., to Rohr Corporation. Turbo-fan propulsion apparatus and operating method. 3,696,617, 10-10-72, Cl. 60-229.000.

Ellis, Rollo G., 1/3 to Ditty, Rollo G. and 1/3 to Gilleran, Gerald T. Nail extracting device. 3,643,918, 2-22-72, Cl. 254-19.

Ellis, Ronald; and Wankling, James Leonard. Radiation detector comprising semi-conductor body incorporating a two-dimensional array of P-I-N-devices. 3,691,389, 9-12-72, Cl. 250-211.00j.

Ellis, Stephen R. M.: *See—*
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Ellis, Walter S., to Schulze & Burgess Company. Variable positioning means. 3,698,052, 10-17-72, Cl. 29-38.00c.

Ellis, Willard H.: *See—*
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Bokros, Jack C.; and Ellis, Willard H., 3,685,059.
Bokros, Jack C.; and Ellis, Willard H., 3,707,006.

Ellison, Edward F. Drifting anchor alarm. 3,690,285, 9-12-72, Cl. 114-206.00f.

Ellison, Herbert E., to Paltier Corporation, The. Container insert for portable tiering rack. 3,688,937, 9-5-72, Cl. 220-7.000.

Ellison, John E., to Skinner Precision Industries, Inc. Explosion-proof valve operator. 3,670,274, 6-13-72, Cl. 335-260.000.

Ellison, John M. Tobacco smoking pipe conditioning apparatus. 3,640,001, 2-8-72, Cl. 34-218.

Ellison, John M., to Vacuum/Atmospheres Corporation. Pneumatic control valve for vacuum chambers. 3,687,570, 8-29-72, Cl. 417-199.000.

Ellison, Lloyd H. Self-cleaning ash tray for vehicles and the like. 3,663,432, 5-16-72, Cl. 206-19.5.

Ellison, Peter James: *See—*
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Ellison, Thomas M.: *See—*
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Ellison, Victor D.; and Remus, Casimer F., to Bendix Corporation, The. Vertical scale indicator. 3,633,200, 1-4-72, Cl. 340-317.

Ellison, William C. Machine for cutting rolls of sheet material. 3,675,525, 7-11-72, Cl. 83-629.000.

Ellithorpe, Ernest; and Fletcher, Ronald B., to Sulform Limited. Method and apparatus for the solidification of molten sulphur. 3,684,005, 8-15-72, Cl. 165-1.000.

Ellman, Harold R. Method of making machine sewn jacket and jacket construction. 3,639,914, 2-8-72, Cl. 2-93.

Ellman, Julius: *See—*
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Ellman, Robert C.: *See—*
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Elmore, J. Russell, to Torrington Company, The. Antifriction bearing and cage. 3,649,094, 3-14-72, Cl. 308-201.
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Elpern, Bill; and Bandurco, Victor T., to USV Pharmaceutical Corporation. Styrene ethers of amino alcohols. 3,651,067, 3-21-72, Cl. 260-293.83.
Elpern, Bill; Shapiro, Harris J.; and Soloway, Harold, to USV Pharmaceutical Corporation. 5-Arylalkoxy-1-hydroxy-2-napthoic acids. 3,651,134, 3-21-72, Cl. 260-520.
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Emmett, Robert C., Jr., to Envirotech Corporation. Method for stabilizing producer well water. 3,681,238, 8-1-72, Cl. 210-50.000.
Emmett, Robert C., Jr.; Dahlstrom, Donald A.; and Brozovich, John C., to Envirotech Corporation. Apparatus for steam drying filter cake. 3,698,556, 10-17-72, Cl. 210-178.000.
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Emmons, William D.; Moser, Vincent J.; Brodnyan, John G.; and Shachat, Norman, to Rohm & Haas Company. Highly absorbent bonded non-woven fabrics. 3,705,053, 12-5-72, Cl. 117-140.00a.
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Enders, Edgar, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of cyanogen chloride together with cyanuric chloride and tetrameric cyanogen chloride. 3,666,427, 5-30-72, Cl. 23-359.

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Engeler, William E.; and Brown, Dale M., to General Electric Company. Method and apparatus for providing thermal contact and electrical isolation of integrater circuits. 3,686,748, 8-29-72, Cl. 29-577.000.
Engeler, William E., to General Electric Company. Method of fabricating buried metallic film devices. 3,691,627, 9-19-72, Cl. 29-571.000.
Engelfried, Otto; Neumann, Friedmund; and Wiechert, Rudolf, to Schering AG. 17β-Hydroxy-18-methyl-4-estrene-3-one and derivatives thereof. 3,641,013, 2-8-72, Cl. 424-243.
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Engelsmann, Dieter; and Schroder, Rolf, to Agfa-Gevaert Aktiengesellschaft. Exposure controlling structure for photographic apparatus. 3,668,988, 6-13-72, Cl. 95-11.00r.
Engelsmann, Dieter; Hackenberg, Hubert; and Prummer, Helmut, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with automatically and manually adjustable shutter means. 3,688,661, 9-5-72, Cl. 95-11.00r.
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England, David C.; Raasch, Maynard S.; and Sheppard, William Arthur, to Du Pont de Nemours, E. I., and Company. Preparation of 2,4-bis(hexafluoroisopropylidene)-1, 3-dithietane by reaction of perfluoroisobutene with selected alkali metal salts. 3,694,460, -26-72, Cl. 260-327.00m.
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Engle, Isaiah B. Method of incinerating refuse. 3,697,256, 10-10-72, Cl. 75-40.000.
Engle, James P.; Oakes, Billy D.; and Reich, Cecil F., to Dow Chemical Company, The. Inhibitor. 3,634,270, 1-11-72, Cl. 252-149.
Engle, Thomas H., to General Signal Corporation. Pneumatic torque motor unit. 3,667,350, 6-6-72, Cl. 92-113.000.
Engle, Thomas H., to General Signal Corporation. Vent valve. 3,672,633, 6-27-72, Cl. 251-304.000.
Engle, Thomas H., to General Signal Corporation. Brake head-centering device for railway brake apparatus. 3,696,892, 10-10-72, Cl. 188-212.000.
Engle, Thomas H., to General Signal Corporation. Hydraulically operated hand brake-service brake system for railway cars. 3,707,309, 12-26-72, Cl. 303-13.000.
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Engler, Louis C. Gate placer for levee. 3,670,508, 6-20-72, Cl. 61-63.000.
Engler, Otto; and Muller, Meinhard, to Industrie-Werke Karlsruhe Aktiengesellschaft. Apparatus for making seals on tubular containers. 3,632,943, 1-4-72, Cl. 219-10.79.
Engler, Otto; Hammer, Theodor; and Muler, Meinhard, to Industrie-Werke Karlsruhe Aktiengesellschaft. Apparatus for making seals on containers. 3,684,619, 8-15-72, Cl. 156-380.000.
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Englert, Henry O. Heat exchanger for fireplaces. 3,635,211, 1-18-72, Cl. 126-121.
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English, Christopher Durrant, to Tracked Hovercraft Limited. Vehicle propelled by linear motor. 3,680,489, 8-1-72, Cl. 104-148.0lm.
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English, Jack A., to CTS Corporation. Variable resistance control with end collector. 3,670,285, 6-13-72, Cl. 338-175.000.

English, John R., 1/2% to DiBenedetto, Joseph R., Jr. Combined billiard balls rack and indicator for placing the balls. 3,680,859, 8-1-72, Cl. 272-22.000.

English, John Walter, to National Research Development Corporation. Hydrofoils for ships and like vessels. 3,680,511, 8-1-72, Cl. 114-162.000.

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Englund, Gosta Roland; and Tice, Richard Reuben, to Svenska Dataregister AB. Converting device. 3,668,692, 6-6-72, Cl. 340-347.00p.

Englund, Gosta Roland; Eriksson, Bjorn Sven Hilding; Mattsson, Mats Erik; and Lindelow, Claes-Goran, to Svenska Dataregister AB. Control apparatus. 3,700,863, 10-24-72, Cl. 235-62.00f.

Englund, James A.; and Popek, Stephen, to Alcan Aluminum Corporation. Ceiling suspension system. 3,678,641, 7-25-72, Cl. 52-484.000.

Engman, Bert Hjalmar: *See—*
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Engstrom, Hans-Erik, to Sunds Aktiebolag. Removal of entrained air from cellulose pulp before bleaching of the pulp. 3,668,063, 6-6-72, Cl. 162-19.000.

Engstrom, Hans-Erik Rye. Apparatus for removal of entrained air from cellulose pulp before bleaching of the pulp. 3,693,380, 9-26-72, Cl. 68-5.00c.

Engvoll, Sverre, to Arenco Aktiebolag. Device for folding onto, and joining with, one another two side edge portions of a heat sealing foil. 3,669,805, 6-13-72, Cl. 156-567.000.

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Enk, George W. Drill, tap, and other object detector. 3,683,354, 8-8-72, Cl. 340-271.000.

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Enloe, Louis H., to Bell Telephone Laboratories, Incorporated. Single tube color TV camera using 120 degree phase separation. 3,647,946, 3-7-72, Cl. 178-5.4.

Enlow, Dale S.; and Varner, Lawrence C., Jr., to General Tire & Rubber Company, The. Cut-resistant foam article. 3,647,608, 3-7-72, Cl. 161-95.

Enne, Paavo; Gahmberg, Gustaf; Pousar, Kurt; and Solitanner, Kaarlo Henrik, to Oy Wartsila AB. Locking means. 3,636,741, 1-25-72, Cl. 70-230.

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Enomoto, Fumio. Scented plastic composition. 3,661,838, 5-9-72, Cl. 260-41.

Enomoto, Koji: *See—*
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Enomoto, Nobuaki, to Kabushiki Kaisha Yashica. Mechanism for winding photographic film. 3,643,469, 2-22-72, Cl. 64-23.

Enomoto, Osamu, to Nippon Electric Company. Switching circuit having a controllable semiconductor switching element and a switching matrix employing the switching circuit. 3,694,812, 9-26-72, Cl. 340-166.00r.

Enomoto, Satoru; Wada, Hisayuki; Fujioka, Mikio; and Koguro, Masao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Air-curing resin composition. 3,707,387, 12-26-72, Cl. 106-265.000.

Enomoto, Sigeharu; Sato, Katsunobu; and Suzuki, Goichi, to Sumitomo Chemical Company, Ltd. Certain cumarin quinazolinones. 3,704,302, 11-28-72, Cl. 260-256.40q.

Enomoto, Yuya: *See—*
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Enright, Dennis J.; Kahabka, Richard D.; and Miller, Donald F., to Minnesota Mining and Manufacturing Company. Conductive probe assembly and method of using. 3,699,501, 10-17-72, Cl. 339-108.0tp.

Enright, Norman D. Loc-blox. 3,683,827, 8-15-72, Cl. 109-50.000.

Enrique, Bernal G., to Honeywell Inc. Gas temperature measurement system employing a laser. 3,632,212, 1-4-72, Cl. 356-45.

Enriquez, Eduardo. Towable spring scooter for producing undulating motions. 3,667,777, 6-6-72, Cl. 280-480.000.

Enroe, Paul V.: *See—*
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Enseki, Richard K.; and Arnone, Michael P., to Kreisler Manufacturing Corporation. Pen and pencil box. 3,638,783, 2-1-72, Cl. 206-45.14.

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Sakamoto, Toemon, 3,698,442.

Ensign, Harold W., to Cla-Val Co. Static-reducing and vapor-reducing loading valve with low pressure drop. 3,643,707, 2-22-72, Cl. 141-286.

Ensign, Harold W., to Cla-Val Co. Static-reducing and vapor-reducing loading valve for tank trucks. 3,680,606, 8-1-72, Cl. 141-128.

Ensign, John D., to Measurement Science Corporation. Pulse, respiration and intravenous rate counter. 3,667,213, 6-6-72, Cl. 58-126.

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Smith, William M.; and Wroble, Francis N., 3,649,045.
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Ensinger, Willis B., to Singer Company, The, mesne. Flexure hinge assembly. 3,700,290, 10-24-72, Cl. 308-2.00a.

Enskat, Albert G.: *See—*
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Polit, Neil A.; and Enskat, Albert G., 3,705,719.

Ensley, Donald L., to U.S. Atomic Energy Commission under the provisions of 42 U.S.C. 2182. Cryogenic sound supported inertial reference. 3,673,872, 7-4-72, Cl. 73-505.000.

Enslin, Nicholas Charl de Villiers. Polyphase alternating current frequency variator for induction and synchronous type motor. 3,665,273, 5-23-72, Cl. 318-227.000.

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Ensor, Gordon R.: *See—*
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Ensor, Robert T., to Barnes Engineering Company. Liquid bath reference cavity. 3,631,708, 1-4-72, Cl. 73-1.

Ensslin, Frieder H., to Bendix Corporation, The. Substrate support module. 3,669,812, 6-13-72, Cl. 165-26.000.

Ensslin, Frieder H., to Bendix Corporation, The. R-F Sputtering apparatus. 3,679,571, 7-25-72, Cl. 204-298.000.
Enteco Establishment: *See—*
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Kampe, Marcis M., 3,655,534.
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Liautaud, Jean, 3,635,184.
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Entschel, Roland; Kaeppeli, Viktor; and Mueller, Curt, to Sandoz Ltd. Process for dyeing or printing textile materials which consist of acrylonitrile polymers. 3,632,302, 1-4-72, Cl. 8-177.
Entschel, Roland; Mueller, Curt; and Siegrist, Hans, to Sandoz Ltd. Basic monoazo dyes. 3,634,389, 1-11-72, Cl. 260-158.
Entschel, Roland; and Steinemann, Willy, to Sandoz Ltd.; a/k/a Sandoz A.G. Basic phenylazophenyl dyes containing a quaternized aminoalkylenecarboxamide group. 3,674,772, 7-4-72, Cl. 260-207.000.
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Entwisle, John Hubert; Lee, Denis; and Scrutton, Anthony, to Imperial Chemical Industries Limited. Electrodes for electrochemical processes. 3,701,724, 10-31-72, Cl. 204-290.00f.
Entwistle, Clive. Lamphead for tungsten-halogen lamps. 3,684,883, 8-15-72, Cl. 240-92.000.
Entwistle, Clive E. Shoulder saddle assembly. 3,698,608, 10-17-72, Cl. 224-6.000.
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Bird, Douglas, 3,704,952.
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Zuckerman, Mathew M.; and Molof, Alan H., 3,635,564.
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Enya, Ryosuke. Method of making molten metal for casting. 3,653,877, 4-4-72, Cl. 75-43.
Enya, Ryosuke. Device for making molten metal for casting. 3,690,634, 9-12-72, Cl. 266-33.00r.
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EPC & G, Inc., mesne: *See—*
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EPEC Systems Corporation: *See—*
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Ephraim, Max, Jr.; and Smith, Earl D., to General Motors Corporation. Traction motor temperature control of locomotive power. 3,691,446, 9-12-72, Cl. 318-472.000.
Epiard, Eugene Jean Robert, to Societe dite: Compagnie Industrielle des Bracelet C.I.B. (Societe Anonyme). Clip for watch bracelet. 3,685,107, 8-22-72, Cl. 24-241.00s.
Epic Metals Corporation: *See—*
King, Richard E.; and Pfaff, Richard C., 3,707,088.
Epifani, Corrado; and Pucci, Luigi. Joint device for a disconnectable mechanical and electric connection of an electric light pendant or other suspended electric apparatus, to a carrying means. 3,706,956, 12-19-72, Cl. 339-66.00m.
Epifano, Robert Nicholas; and Jordan, Eugene Leon, to RCA Corporation. Method of making a semiconductor device including a polyimide resist film. 3,700,497, 10-24-72, Cl. 117-212.000.
Epina, August P.; and Pearson, Paul O., to Storage Technology Corporation. Door construction in a magnetic tape drive system. 3,703,997, 11-28-72, Cl. 242-182.000.
Epoch Company, Ltd.: *See—*
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Eppensteiner, Frederick Walter, to M & T Chemicals Inc. Novel nickel etch process. 3,669,776, 6-13-72, Cl. 156-18.000.
Eppensteiner, Frederick Walter; and Woehrle, Richard E., to M & T Chemicals Inc. Wire and strip line electroplating. 3,691,049, 9-12-72, Cl. 204-206.000.

Epper, Karl F., to Ocean Sales, Inc. Storage system. 3,687,111, 8-29-72, Cl. 119-2.000.
Epperson, James Philbert: *See—*
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Eppinette, Horace. Portable stairway. 3,684,057, 8-15-72, Cl. 182-93.000.
Epple, Paul; and Kruse, Magdalena. Transportable floating board for sport boats or the like. 3,635,181, 1-18-72, Cl. 114-.5.
Epple, Peter C.; and Berg, Alan D., to General Motors Corporation. Vehicle passenger restraint system. 3,633,966, 1-11-72, Cl. 297-386.
Eppler, Daniel, to Thomas & Betts Corporation. Extrusion tool. 3,674,392, 7-4-72, Cl. 425-109.000.
Eppler, Richard Andrew, to SCM Corporation. Composition and process for glazing ceramic ware. 3,676,204, 7-11-72, Cl. 117-125.000.
Eppler, Richard Andrew, to SCM Corporation. Composition and process for glazing ceramic ware. 3,679,464, 7-25-72, Cl. 117-175.000.
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Eprad Incorporated: *See—*
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Epstein, George; and Yamanaka, Hideki, to International Telephone and Telegraph Corporation. Tri-stable state circuitry for digital computers. 3,663,837, 5-16-72, Cl. 307-289.000.
Epstein, Joseph, to United States of America, National Aeronautics and Space Administration. Tungsten contacts on silicon substrates. 3,664,874, 5-23-72, Cl. 136-89.000.
Epstein, Martin Eden; Rosenthal, Arnold Joseph; and Santangelo, Joseph Germano, to Celanese Corporation of America. Elastomeric fibers. 3,669,934, 6-13-72, Cl. 260-77.5sp.
Epstein, Martin F.: *See—*
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Epstein, Marvin A., to International Telephone and Telegraph Corporation. Digital voltage controlled oscillator producing an output clock which follows the phase variation of an input clock. 3,633,115, 1-4-72, Cl. 328-63.
Epstein, Paul; Cunningham, James; Wernikoff, Robert E.; and Rosen, George, to Electronic Image Systems Corporation. Communication system having plural coding vocabularies. 3,646,257, 2-29-72, Cl. 178-6.
Epstein, Peter F., to Stauffer Chemical Company. Synergistic insecticidal mixture containing benzothiazolines and insecticidal use of the mixture. 3,641,245, 2-8-72, Cl. 424-188.
Epstein, Philip L., to Quindar Electronics, Inc. Telemetering apparatus. 3,681,696, 8-1-72, Cl. 325-320.000.
Epstein, Sheldon L.; and Wessling, Bernard W., to Brunswick Corporation. Process for making electrical energy sources. 3,660,888, 5-9-72, Cl. 29-471.3.
Epsztein, Bernard, to Thomson-CSF. Electronic transducer for a piezoelectric line. 3,689,782, 9-5-72, Cl. 310-8.100.
Epsztein, Bernard; Kantorowicz, Gerard; and Ribout, Pierre. Ring and bar delay line. 3,689,852, 9-5-72, Cl. 333-31.000.
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Epton, Roger, to Koch-Light Laboratories Limited. Water insoluble hydrophilic polymers of acrylamide polymer. 3,666,733, 5-30-72, Cl. 260-80.30n.
Epuran, Jean, to Laboratoire de Recherches Chimiques et Industrielles Marsan. 21-Esters of triamcinolone and acetonides thereof. 3,649,622, 3-14-72, Cl. 260-239.55.
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Erb, George H., to American Velcro, Inc. Method and apparatus for making flexible strips of material having a pile of hook-shaped elements. 3,665,584, 5-30-72, Cl. 29-410.
Erb, George H., to American Velcro, Inc. Production of heated gaseous materials from cryogenic liquids. 3,692,459, 9-19-72, Cl. 431-11.000.
Erb, George H., to Velcro S.A. Apparatus for manufacturing of separable fastener elements. 3,695,976, 10-3-72, Cl. 156-435.000.
Erb, Gilbert E., to Ati, Inc. Non-contacting optical probe. 3,671,126, 6-20-72, Cl. 356-4.000.
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Erbach, Arthur R.; and Kupferschmidt, Albert, to Beckman Instruments, Inc. Drive arrangement for variable width Z-fold chart paper. 3,646,569, 2-29-72, Cl. 346-136.
Erbacher, Alfons, to Glanzstoff AG. Godets with contactless transmission units in electrically operated sensing circuits. 3,680,383, 8-1-72, Cl. 73-351.000.
Erben, Klaus Dieter; Kroy, Walter; and Mehnert, Walter Erich, to Messerschmitt-Bolkow-Blohm GmbH. Measuring device for use in moving bodies for navigation purposes to determine the change of orientation thereof. 3,678,380, 7-18-72, Cl. 324-83.00a.
Erben, Klaus Dieter; Kroy, Walter; and Mehnert, Walter E., to Messerschmitt-Bolkow-Blohm GmbH. Superconductor device for use in moving bodies for navigation purposes to determine the change in orientation thereof using the Sagnac effect. 3,681,687, 8-1-72,Cl. 324-71.00r.
Erben, Klaus Dieter; Kroy, Walter; Manhart, Sigmund; and Mehnert, Walter E., to Messerschmitt-Bolkow-Blohm GmbH. Superconductive device for electronic storage of large quantities of data using magnetic particles. 3,691,539, 9-12-72, Cl. 340-173.100.
Erbert, Virgil; and Wilkes, Donald F., to Rolamite, Incorporated. Piano actions. 3,651,732, 3-28-72, Cl. 84-240.
Erbert, Virgil, to Teaching Complements, Incorporated. Speech pattern recognition system. 3,663,758, 5-16-72, Cl. 179-1.
Erbert, Virgil, to Rolamite, Incorporated. Electromagnetic device. 3,691,461, 9-12-72, Cl. 324-151.00r.
Erbert, Virgil, to United States of America, Atomic Energy Commission. Bimetallic temperature sensing device. 3,702,589, 11-14-72, Cl. 102-70.000.
Erbil, Ibrahim Hidayet, to Aronsen, Daniel, Jr., mesne. Building suspension apparatus. 3,686,816, 8-29-72, Cl. 52-83.000.
Erby, William A.; Thorsell, Paul W.; and Ilagan, Perlita A., to Daubert Chemical Company. Prevention of corrosion on aluminum metal and its alloys. 3,661,796, 5-9-72, Cl. 252-392.000.
ERC Electronic Research Corporation: *See—*
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Erck, Karl, to Volkswagenwerk Aktiengesellschaft. Packing and securing strip for windshields. 3,672,109, 6-27-72, Cl. 52-400.000.
Ercoli, Alberto; Gardi, Rinaldo; and Romano, Casatenovo, to Warner-Lambert Pharmaceutical Company. Process for the preparation of aldosterone 21-esters. 3,646,013, 2-29-72, Cl. 260-239.55.
Ercoli, Alberto; Gardi, Rinaldo; Vitali, Romano; and Falconi, Giovanni, to Warner-Lambert Company. Aldosterone 21-esters and 1-dehydro analogues. 3,649,620, 3-14-72, Cl. 260-239.55.
Ercoli, Alberto; and Gardi, Rinaldo, to Warner-Lambert Pharmaceutical Company. 17-Valerate ester of 6α,9α-difluoro-prednisolone, its compositions and use as an anti-inflammatory agent. 3,691,214, 9-12-72, Cl. 260-397.450.
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Ercon, Inc.: *See—*
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E.R.D. Corporation: *See—*
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Erdahl, Alan C.; and Evans, David C., to University of Utah. Electronically-generated perspective images. 3,665,408, 5-23-72, Cl. 340-172.500.
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Townsley, Malcolm G., 3,705,014.
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Erdley, Harold F.; and Wyse, Stanley F., to Litton Systems, Inc. Gyroscope having vibrating gimbals. 3,678,764, 7-25-72, Cl. 74-5.000.
Erdman, David M., to General Electric Company. Frequency doubler motor drive and motor. 3,668,489, 6-6-72, Cl. 318-227.000.
Erdman, Donald C.: *See—*
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Erdman, Earl: *See—*
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Erdman, Robert J., to Keithley Instruments, Inc. Variable low resistance circuit with superconducting shunts. 3,707,670, 12-26-72, Cl. 323-96.000.
Erdman, William Charles, to Bell Telephone Laboratories, Incorporated. Zirconium mask for semiconductor fabricated using alkaline etchants. 3,674,580, 7-4-72, Cl. 156-13.000.
Erdmann, Fred H., to Phillips Petroleum Company. Catalytic polymerization. 3,658,936, 4-25-72, Cl. 260-683.15.
Erdmann, Hans, to ITT Industries, Inc. Booster for hydraulic systems. 3,677,006, 7-18-72, Cl. 60-54.60p.
Erdmann, Hans, to ITT Industries, Inc. Impact absorber for railroad cars. 3,693,768, 9-26-72, Cl. 188-289.000.
Erdmann, Jurgen: *See—*
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Erdol-Raffinnerie Mannheim GmbH., mesne: *See—*
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Brill, Henry L., 3,692,392.
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Walker, Richard K., 3,677,628.
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Erhardt, William A., Jr., to TRW Inc. Gaging mechanism for fastener attaching machine. 3,698,616, 10-17-72, Cl. 227-3.000.
Erhart, John J., to Cincinnati, Incorporated. Numerical control apparatus for a shear. 3,706,248, 12-19-72, Cl. 83-74.000.
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Erickson, Allen M., to United States of America, Navy. Laser pulse time modulation Q-switch. 3,660,777, 5-2-72, Cl. 331-94.5.
Erickson, Allen M.; and Kessler, Bernard V., to United States of America, Navy. Fabry-perot interference mirror separation system and method therefor. 3,697,182, 10-10-72, Cl. 356-112.000.
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Erickson, Arthur E., to Merck & Co., Inc. Processes for chemical compounds. 3,632,811, 1-4-72, Cl. 260-287.
Erickson, Clifford E.; and Linger, Harrison K., to General Electric Company. Appliance control console. 3,636,645, 1-25-72, Cl. 40-124.1.
Erickson, David G.: *See—*
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Erickson, Elwyn J. Dispensing gun for wallboard tape and joint compound. 3,707,427, 12-26-72, Cl. 156-575.000.
Erickson, Gerald. Bottle carrier. 3,633,962, 1-11-72, Cl. 294-87.2.
Erickson, Gerald. Mold assembly for molding chimed containers. 3,650,653, 3-21-72, Cl. 425-218.
Erickson, Gerald. Container having registering means, carrier therefor and package thereof. 3,685,647, 8-22-72, Cl. 206-65.00e.
Erickson, Gerald L., to United States of America, Atomic Energy Commission. Dose rate dosimeter circuit. 3,702,936, 11-14-72, Cl. 250-83.60r.
Erickson, Gerald L., to United States of America, Atomic Energy Commission. Demand regulated DC to DC power supply. 3,702,961, 11-14-72, Cl. 321-2.000.
Erickson, Glenn D., to Pako Corporation. Method and means of accurately positioning film in a film processing mechanism. 3,656,673, 4-18-72, Cl. 226-2.
Erickson, Gustav F., to U.M.C. Industries, Inc. Money-handling device. 3,701,523, 10-31-72, Cl. 270-67.000.
Erickson, Howard L.: *See—*
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Erickson, John Chester. Process for making plastic contact lens blanks. 3,651,192, 3-21-72, Cl. 264-160.
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Erickson, John W., to Preco Inc. Load dividing gate with release mechanism. 3,648,623, 3-14-72, Cl. 105-376.
Erickson, John W. Centrifugal pump for operating at low suction head. 3,674,378, 7-4-72, Cl. 416-177.000.
Erickson, John W., to Erickson Electrical Equipment Co. Arc control for load-break switches. 3,681,548, 8-1-72, Cl. 200-144.00r.

Erickson, Keith Duane. Car top carrier. 3,696,979, 10-10-72, Cl. 244-42.10e.

Erickson, Kenneth W.: *See—*
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Erickson, Lloyd A. Adhesive wire routing clip. 3,659,319, 5-2-72, Cl. 24-73.0ap.

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Erickson, Merle L., to Minnesota Mining and Manufacturing Company. Heat shrinkable film and tubing. 3,631,899, 1-4-72, Cl. 138-171.

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Erickson, Robert E., to Dow Chemical Company, The. Shaped articles of latex foam. 3,650,995, 3-21-72, Cl. 260-2.5.

Erickson, Rodney R.; Matthews, Ralph W.; and Sprangel, Richard V., to Caterpillar Tractor Company. Thermal compensator valve for differential pressure devices. 3,687,160, 8-29-72, Cl. 137-599.100.

Erickson, Roy O.: *See—*
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Erickson, Wallace A.; and Safstrom, Donald K. Inflated picture holder. 3,686,782, 8-29-72, Cl. 40-152.000.

Erickson, Walter C.; and Pon, Harry. Modular steel building with internal air flow passages. 3,688,983, 9-5-72, Cl. 237-50.

Erickson, Wayne K.; and Buchanan, David R., to Phillips Petroleum Company. Apparatus having chamber of oval cross-section for heat treating large denier tow. 3,680,334, 8-1-72, Cl. 68-5.000.

Erickson, Werner, Jr., to Hughes Aircraft Company. 3-Dimensional cone antenna method. 3,649,394, 3-14-72, Cl. 156-16.

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Ericson, Richard E., to Elliot Laboratories, Inc. Combination bulb-piston syringe. 3,635,218, 1-18-72, Cl. 128-231.

Ericson, Richard E., to Bard, C. R., Inc., mesne. Drainage bag. 3,650,272, 3-21-72, Cl. 128-275.

Ericson, Richard E., to Elliot Laboratories, Inc. Anti-static plastic shoe cover and method of making same. 3,684,922, 8-15-72, Cl. 317-2.00b.

Ericson, Richard E., to Bard, C. R., Inc. Closed urinary drainage and irrigation system. 3,699,964, 10-24-72, Cl. 128-275.000.

Ericson, Ronald Harris, to Eastman Kodak Company. Photographic compositions containing an admixture of organic and inorganic silver salts. 3,706,565, 12-19-72, Cl. 96-114.000.

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Ericsson, Ronald J., to Upjohn Company, The. Determination of capacitation of sperm employing a fluorescent form of tetracycline. 3,660,558, 5-2-72, Cl. 424-7.

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Erikson, Gustaf L. Lithographic inks and solutions for treating lithographic plates. 3,666,502, 5-30-72, Cl. 106-22.000.

Erikson, J. A.; and Douds, Robert G., to PPG Industries, Inc. Coating compositions of unsaturated carboxylic acid amide polymers and unsaturated organosilanes. 3,706,709, 12-19-72, Cl. 260-80.071.

Erikson, J. Alden; and Gacesa, Gerald R., to PPG Industries, Inc. Coating method. 3,674,670, 7-4-72, Cl. 204-181.000.

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Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; Kneip, Paul Hans Otto Josef; and Rohte, Oskar Adolf, to Aktiebolaget Leo. Dibenzazepine derivatives. 3,637,660, 1-25-72, Cl. 260-239.

Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; and Rohte, Oskar Adolf, to Aktiebolaget Leo (AB Leo). Benzodioxole compounds of therapeutic interest. 3,682,973, 8-8-72, Cl. 260-340.500.

Eriksson, Ake Sigvard, to Atlas Copco Aktiebolag. Drill bit with pivoting cutting portion. 3,648,789, 3-14-72, Cl. 175-292.

Eriksson, Alf A. A., to Aktiebolaget Svenska Precisionsverktyg. Screw thread cutting apparatus. 3,656,858, 4-18-72, Cl. 408-139.

Eriksson, Anders Karl Oskar; and Wallenius, Jan Folke, to AB Svensk Industris Konstruktions-och Beraknings-Kontor SIKOB. Apparatus for cutting annular elastic bands. 3,678,791, 7-25-72, Cl. 83-95.000.

Eriksson, Axel Fredrik Valdemar; Svard, Per Olov; and Jurgens, Jorg, to Aktiebolaget Astra. Method of reducing adhesiveness and aggregation of blood platelets. 3,646,195, 2-29-72, Cl. 424-94.

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Eriksson, Erik G., to Cefilac. Method and apparatus for improvements in the extrusion of metals and alloys. 3,633,396, 1-11-72, Cl. 72-41.

Eriksson, Erik Helmer, to Mo och Domsjo Aktiebolag. Process and apparatus for debranching felled trees. 3,635,266, 1-18-72, Cl. 144-22.

Eriksson, Erik Helmer; Frisk, Olof Edvin; Hogberg, Lars-Gunnar; Lofgren, Stig-Gunnar; and Tjarnstrom, Sven Paul, to Mo och Domsjo Aktiebolag. Method and apparatus for gripping and debranching felled trees. 3,659,636, 5-2-72, Cl. 144-2.

Eriksson, Erik Torvald, to Aga Aktiebolag. Flash-back arrestor. 3,689,239, 9-5-72, Cl. 48-192.000.

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Eriksson, George J., to Superior Concrete Accessories, Inc. Torque-applying tool for button-head concrete wall form tie rods. 3,651,835, 3-28-72, Cl. 140-149.

Eriksson, George J., to Superior Concrete Accessories, Inc. Anchor insert and setting cone for a precast concrete body. 3,705,469, 12-12-72, Cl. 52-125.000.

Eriksson, Hans Gustav. Arrangement in disk-formed body, in particular in a record. 3,682,487, 8-8-72, Cl. 274-42.00r.

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Eriksson, Jan Christer; Lagergren, Hans Ragnar; Johansson, Anders Lennart; and Gillberg, Eisa. Method for making non-thrombogenic surfaces. 3,634,123, 1-11-72, Cl. 117-47.
Eriksson, Karl Gunnar; and Mangen, Arnold. Process for producing dosage units of a type resembling tablets. 3,670,065, 6-13-72, Cl. 264-131.000.
Eriksson, Karl Tage Birger; and Eriksson, Ernst Osten Reimer. Prefabricated room cell in particular a bathroom. 3,633,323, 1-11-72, Cl. 52-34.
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Eriksson, Lars O.; and Rosser, Daniel B., to General Electric Company. Fluid cooled pressure assembly. 3,652,903, 3-28-72, Cl. 317-234.
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Erkers, Nils Arne. Disposable brush-like cleaning utensils, particularly intended for dental hygiene purposes. 3,707,013, 12-26-72, Cl. 15-167.00r.
Erkfritz, Donald S., to Ingersoll Milling Machine Company, The. Cutter with nested indexable blade clamped by screw actuated wedge. 3,660,879, 5-9-72, Cl. 39-105.
Erkfritz, Donald S., to Ingersoll Milling Machine Company, The. Indexable cutting insert and holder therefor. 3,662,444, 5-16-72, Cl. 29-96.
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Erlichman, Irving, to Polaroid Corporation. Camera frame member. 3,640,724, 2-8-72, Cl. 95-11.
Erlichman, Irving; and Lawrence, Maxwell E., to Polaroid Corporation. Photographic film assemblage. 3,643,571, 2-22-72, Cl. 95-19.
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Erlichman, Irving, to Polaroid Corporation. Film container. 3,672,276, 6-27-72, Cl. 95-19.000.
Erlichman, Irving, to Polaroid Corporation. Photographic apparatus. 3,678,830, 7-25-72, Cl. 95-13.00r.
Erlichman, Irving, to Polaroid Corporation. Photographic product. 3,682,062, 8-8-72, Cl. 95-13.00r.
Erlichman, Irving, to Polaroid Corporation. Support member for preventing inverted insertion of a film cassette. 3,682,076, 8-8-72, Cl. 95-71.000.
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Erlichman, Irving, to Polaroid Corporation. Reflex member velocity control means. 3,701,304, 10-31-72, Cl. 95-42.000.
Erlichman, Irving, to Polaroid Corporation. Reciprocating drawer type photographic apparatus and method. 3,702,580, 11-14-72, Cl. 95-13.000.
Erlinder, Atwood E. Lift having self-folding platform. 3,675,739, 7-11-72, Cl. 187-1.000.
Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshev, Vladimir Alexandrovich; Volkov, Valentin Vladimirovich; Firsel, Vladlen Borisovich; Bulatkin, Vladimir Dmitrivich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich. Hydrofoil watercraft. 3,693,570, 9-26-72, Cl. 114-66.50h.
Erlykov, Nikolai Sergeevich: *See*—
Kasatkin, Jury Ivanovich; Filimonov, Alexandr Vasilievich; Erlykov, Nikolai Sergeevich; Chikirda, Sergei Ivanovich; Strashinsky, Vadim Konstantinovich; and Zeldin, Vladimir Pinsokhovich, 3,681,833.
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Fanta, Wayne I.; and Erman, William F., 3,662,007.
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Kretschmar, Herbert C.; and Erman, William F., 3,679,756.
Erman, William F.; and Broaddus, Charles D., to Procter & Gamble Company, The. Metalation of limonene and syntheses of limonene derivatives. 3,658,925, 4-25-72, Cl. 260-665.
Ermanco Incorporated: *See*—
Fleischauer, Fred J.; and Hammond, Theodore A. (said Hammond assor. to), 3,650,375.
Fleischauer, Fred J.; and Hammond, Theodore (said Hammond assor. to), 3,696,912.
Ermidis, Nicholas Peter, to American Cyanamid Company. Vulcanizable elastomer composition containing triarylphosphine and triallylcyanurate. 3,697,620, 100-72, Cl. 260-836.
Ermolenko, Igor Nikolaevich: *See*—
Dovgalev, Stepan Ilich; Ermolenko, Igor Nikolaevich; Buglov, Evgeny Danilovich; Danilov, Ivan Petrovich; and Longin, Mikail Lvovich, 3,703,438.
Ermolenko, Igor Nikolaevich; Sviridova, Remma Nikolaevna; and Kuvaeva, Zoya Ivanovna, to Institut Obschei i Neorganicheskoi khimiii Akademii Nauk SSR. Pyrolytic carbon fiber. 3,702,832, 11-14-72, Cl. 252-423.000.
Ermolova, Tatyana Ivanovna: *See*—
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Ern, Klaus-Jurgen, to Zellweger Ltd. Apparatus for measuring limited flow capacities. 3,641,818, 2-15-72, Cl. 73-226.
Ernbach, Erik Sverker: *See*—
Axen, Rolf E. A. V.; Porath, Jerker Olof; and Ernbach, Erik Sverker, 3,645,852.
Erne, Hansjorg; and Halma, Laszlo, to Derby-Anstalt. Automatic beverage dispenser with key control. 3,685,692, 8-22-72, Cl. 222-23.000.
Ernest, Dale S., to Broughton, Jesse I. and Hannon, John G. Air humidifying system and compact spray humidifier for the same. 3,640,266, 2-8-72, Cl. 126-113.
Ernest, Eric: *See*—
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Ernest-Lloyd Limited: *See*—
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Erni, Heinrich H., to Allis-Chalmers Manufacturing Company. Puffer type circuit interrupter. 3,674,956, 7-4-72, Cl. 200-148.00a.
Ernick, Frederick G.; Kisinko, Paul M.; Marino, Joseph; and Kannam, Peter J., to Westinghouse Electric Corporation. EPI base high speed power transistor. 3,639,815, 2-1-72, Cl. 317-235.
Ernick, Frederick G.; New, Thorndike C. T.; and Walczak, Donald A. Epitaxial base high speed PNP power transistor. 3,648,123, 3-7-72, Cl. 317-235.
Ernie & Co., Firma: *See*—
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Ernisse, Paul J., to Eastman Kodak Company. Camera with metered film advance and double exposure prevention. 3,696,723, 10-10-72, Cl. 95-31.0fm.
Ernolf, Stig Carl-Oskar: *See*—
Crener, Bengt Olof; and Ernolf, Stig Carl-Oskar, 3,633,240.

Crener, Bengt Olof; Anderson, Erik Arne; and Ernolf, Stig Carl-Oskar, 3,639,939.
Ernsberger, Glenn W.: *See—*
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Kernick, Andress; Geyer, Manvel A.; and Ernsberger, Glenn W., 3,648,150.
Kernick, Andress; and Ernsberger, Glenn W., 3,697,855.
Ernst, Alfons; and Hofling, Rudolf, to Heidenhain, Johannes, Dr. Apparatus for the measurable displacement of an object. 3,675,331, 7-11-72, Cl. 33-1.00m.
Ernst, Alfons; and Jung, Werner, to Heidenhain, Johannes, Dr., Firma. Drive for rotatable parts. 3,705,518, 12-12-72, Cl. 74-410.000.
Ernst, Arnold E. Row crop thinning implement. 3,658,136, 4-25-72, Cl. 172-54.
Ernst, Carl J. Hunting boat. 3,638,257, 2-1-72, Cl. 9-5.
Ernst, Charles H.; and Cawley, Martin Dean, to TRW Inc. Holographic apparatus utilizing a pulsed laser. 3,680,944, 8-1-72, Cl. 350-3.500.
Ernst, Frank, to National Cash Register Company, mesne. Temperature-controlled soldering tool. 3,646,577, 2-29-72, Cl. 219-241.
Ernst, Franz, to Chemie und Filter GmbH, Verfahrenstechnik KG. Apparatus for introducing additives into liquids. 3,642,171, 2-15-72, Cl. 222-59.
Ernst, Hans; Semmler, Jurgen; Vohler, Otto; and Rubisch, Ottmar, to Sigri Elektrographit Gesellschaft mit beschrankter Haftung. Hollow electrode assembly of carbon having densed graphite junction nipple. 3,659,139, 4-25-72, Cl. 313-357.
Ernst, Herbert. Prefabricated joint. 3,653,697, 4-4-72, Cl. 287-56.
Ernst, Lothar; and Ruggen, Werner, to Maschinenfabrik Stromag G.m.b.H. Flexible couplings. 3,678,708, 7-25-72, Cl. 64-11.00r.
Ernst, Max. Mounting of a clutch member at the end of toy and model vehicles. 3,634,967, 1-18-72, Cl. 46-216.
Ernst, Max. Electromagnetic control, especially for crossing gates of toy and model railroads. 3,641,466, 2-8-72, Cl. 335-190.
Ernst, Max. Remote control for a stepwise adjustable device, especially turntable for toy and model railroads. 3,649,900, 3-14-72, Cl. 318-675.
Ernst, Max. Turntable for toy and model railroads. 3,695,182, 10-3-72, Cl. 104-38.000.
Ernst, Max. Turntable for electric toy and model railroad installations. 3,705,553, 12-12-72, Cl. 104-35.000.
Ernst, Otto: *See—*
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Ernst, Richard R., to Varian Associates. RF spectrometer employing modulation of a DC magnetic field to excite resonance. 3,681,680, 8-1-72, Cl. 324-.50r.
Ernst, Robert, to Textilana Corporation. N-(2-Hydroxyalkyl)sarcosine-N-oxides. 3,647,868, 3-7-72, Cl. 260-534.
Ernst, Robert R., to Sybron Corporation. Method of controlling relative humidity in gaseous sterilizers. 3,687,612, 8-29-72, Cl. 21-58.000.
Ernst, Runyon G.: *See—*
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Brandt, Fritz; Ernst, Wolfram; and Voegtlen, Dieter, 3,685,018.
Ernsthausen, Roger E., to Owens-Illinois, Inc. Gas discharge display-memory panel having lead oxide coated dielectric plates with decreased aging time. 3,634,719, 1-11-72, Cl. 313-210.
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Eron, Abbot; and Eron, Theodore. Double-end marking pen. 3,684,389, 8-15-72, Cl. 401-207.000.
Eron, Robert E. Aerator and water treatment device. 3,653,641, 4-4-72, Cl. 261-18.
Eron, Robert E. Foam-solids blender. 3,682,446, 8-8-72, Cl. 259-10.000.
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Eros, Peter S.; and Neubauer, Jerry L., to General Motors Corporation. Shelf bracket. 3,652,032, 3-28-72, Cl. 248-235.000.
Eross, Bela: *See—*
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Erpelding, William J., Jr , to Monsanto Company. Display annunciator using SCR memory and digital logic circuitry. 3,688,294, 8-29-72, Cl. 340-213.100.
Erpenbach, Heinz: *See—*
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Sennewald, Kurt; Erpenbach, Heinz; Handte, Heinz; and Lork, Winfried, 3,689,541.
Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; Lork, Winfried; and Prinz, Peter, 3,691,096.
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Ersek, Robert A. Sever cord. 3,631,858, 1-4-72, Cl. 218-318.
Ersek, Robert A. Patient carrier. 3,648,305, 3-14-72, Cl. 5-82.
Ersek, Robert A., to University of Minnesota, The Regents of the. Method for fixing prosthetic implants in a living body. 3,657,744, 4-25-72, Cl. 3-1.
Ersek, Robet A., to University of Minnesota, The Regents of the. Implantable prosthetic pass-through device. 3,638,649, 2-1-72, Cl. 128-214.
Erspamer, James R.; and Snyder, George W., to Sperry Rand Corporation. Automatic gain control for an electromechanical transducer. 3,646,537, 2-29-72, Cl. 340-197.
Erste Deutsche Floatglas G.m.b.H. & Co.: *See—*
Classen, Franz; Kaes, Karl; Labrot, Gunter; and Pape, Heinz, 3,649,237.
Pernet, Michel, 3,700,424.
Erste Deutsche Floatglas GmbH & Co. OHG: *See—*
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Ertel, Martin: *See—*
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Erteszek, Jan J., to Olga Company. Panty girdle with decorative hose support. 3,662,760, 5-16-72, Cl. 128-535.000.
Ertingshausen, Gehard; and Fabiny, Diane L., to Union Carbide Corporation. Process for the determination of creatinine body fluids. 3,682,586, 8-8-72, Cl. 23-230.000.
Erunlu, Recep Kemalettin: *See—*
Franck, Heinz-Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; Zander, Maximilian; Erunlu, Recep Kemalettin; Storch, Gunter; Buffleb, Herbert; and Sauerland, Hans-Dieter, 3,636,178.
Ervin, Guy, III, to North American Rockwell Corporation. Process for a solid state cell by spraying with an organic solvent. 3,701,685, 10-31-72, Cl. 136-83.00r.
Ervin, William D., to Aurora Equipment Company. Coil pickup device. 3,655,068, 4-11-72, Cl. 214-1.
Erway, Bruce C.: *See—*
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Erwin, Curtis L., Jr.; and Fosdick, Gene D. Exerciser with work indicating mechanism. 3,643,943, 2-22-72, Cl. 272-69.
Erwin, Curtis L., Jr. Fuel system for diesel engines. 3,672,394, 6-27-72, Cl. 137-338.000.
Erwin, Eugene S.; and Marco, Gino J., to Monsanto Company. Animal feed compositions and methods. 3,658,962, 4-25-72, Cl. 424-311.
Erwin, John C.: *See—*
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Erwin, John R.; and Vitale, Nicholas G., to General Electric Company. Turbomachinery vane adjustment mechanism. 3,639,075, 2-1-72, Cl. 415-163.
Erwin, John R., to General Electric Company. Compressor for handling gases at velocities exceeding a sonic value. 3,692,425, 9-19-72, Cl. 415-181.000.
Erwin, John R., to Garrett Corporation, The. Turbomachinery blade. 3,694,104, 9-26-72, Cl. 416-217.000.
Erwin, Ronald L., 25% to Harter, Bernard Gerald. Measuring dispenser. 3,685,702, 8-22-72, Cl. 222-305.000.
Erwin, Rudy, to Teledyne Industries, Inc. Method for making castable carbonitride alloys. 3,703,368, 11-21-72, Cl. 75-175.500.
Erwin, Sick Firma: *See—*
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Erwin, Virgel G.: *See—*
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Esaka, Teruo, to Okamoto Chemical Industry Company Limited. Sensitizing layer. 3,674,495, 7-4-72, Cl. 96-91.00r.
Esaki, Hideya: *See—*
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Esashi, Hanjiro; and Machida, Tetsuo, to Sony Corporation. Endless tape cartridge. 3,633,837, 1-11-72, Cl. 242-55.19.
Esashi, Yoshiaki: *See—*
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ESB Incorporated: *See—*
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Bergum, Bernard C.; and Svardal, Per S., 3,647,586.

Bergum, Bernard C.; and Kenyon, Kenneth H., 3,674,565.
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Coffey, James P.; and Vengrofski, Frank A., 3,644,149.
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Malchman, Franklin L.; and Radoi, William J., 3,686,634.
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Nervik, Torbjorn, 3,663,296.
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Clingenpeel, William R.; Cain, Charles L.; Hungerford, Philip C., Jr.; and Hayes, Robert R., 3,674,085.

Esbeck, Howard Christian: *See—*
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Esch, Anne Mary Von, to Abbott Laboratories. 9-Substituted erythromycin A & B oximes. 3,681,326, 8-1-72, Cl. 260-210.00e.

Esch, Erika: *See—*
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Esch, Fred H., to Communications Satellite Corporation. Novel battery discharge sensor and control. 3,707,664, 12-26-72, Cl. 320-18.000.

Esch, Robert E., to Bendix Corporation, The. Apparatus for and method of checking a tool of a numerically controlled machine. 3,636,814, 1-25-72, Cl. 90-11.

Eschard, Gilbert, to U.S. Philips Corporation. Channel amplifying device comprising a plurality of coupled channel plates. 3,673,449, 6-27-72, Cl. 313-105.000.

Eschbach, Robert C.: *See—*
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Esche, Charles D.: *See—*
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Eschenauer, Paul R.: *See—*
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Eschenbach, Paul W., to Deering Milliken Research Corporation. Yarn package and apparatus for producing same. 3,675,864, 7-11-72, Cl. 242-47.000.

Eschenbach, Paul W., to Deering Milliken Research Corporation. Apparatus for increasing the density of yarn packages. 3,675,865, 7-11-72, Cl. 242-47.000.

Eschenburg, Rodney, to Rohr Corporation. Air divider ring structure for jet engine inlet air duct. 3,666,043, 5-30-72, Cl. 181-33.0ha.

Eschenmoser, Albert: *See—*
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Eschenmoser, Albert; Felix, Dorothea; and Stoll, Max, to Firmenich & Cie. Process for the preparation of irone. 3,649,694, 3-14-72, Cl. 260-587.

Escher Wyss GmbH: *See—*
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Eschle, Karl: *See—*
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Esclamadon, Christian, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Halogenated thioethers and method of preparations. 3,673,260, 6-27-72, Cl. 260-609.

Esclamadon, Christian; Labat, Yves; and Signouret, Jean-Baptiste, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Formal propyl or butyl dithiol. 3,706,806, 12-19-72, Cl. 260-609.00r.

Esco Corporation: *See—*
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Escoa Fintube Corporation: *See—*
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Escobedo, Francisco, to Fresco Industries, Inc. Helically-tracking milling assembly with tiltable thread cutting head. 3,690,220, 9-12-72, Cl. 90-17.000.

Escoffier, Raymond P.; and Watson, Milton R., to Collins Radio Company. Ring counter apparatus. 3,639,740, 2-1-72, Cl. 235-153.

Escott, George K.: *See—*
Anderson, Yngve R.; and Escott, George K., 3,640,046.

Escudero, Ribas. Louver door with fixed louver or luffer-boards. 3,638,383, 2-1-72, Cl. 52-473.

Escursell-Prat, Roberto. Mechanism and method for yarn-retrieval control. 3,641,758, 2-15-72, Cl. 57-34.

Escursell-Prat, Roberto. Method and means for yarn retrieval. 3,664,109, 5-23-72, Cl. 57-34.

Esdonk, Johannes Van; and Broers, Godefridus Henricus, to U.S. Philips Corporation. Method of manufacturing an electrode. 3,634,160, 1-11-72, Cl. 156-3.

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Esemplare, Pascal E.; and West, Charles P., 1/2 to Vi-Vox, Incorporated and 1/2 to Frankel Company, Incorporated. Cold-formable decorative laminate and method of making same. 3,647,603, 3-7-72, Cl. 161-5.

Eshelman, Philip V.; Erickson, Roy O.; and Marsh, Keith D., to Holley Carburetor Company. Throttle return spring redundancy system. 3,698,372, 10-17-72, Cl. 123-198.0b0.

Eshelman, Philip V. Throttle return spring redundancy system. 3,699,943, 10-24-72, Cl. 123-198.0db.

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Eshelman, Robert W., to Chrysler Corporation. Crankcase ventilation. 3,646,925, 3-7-72, Cl. 123-119.

Eshelman, Robert W., to Chrysler Corporation. Crankcase ventilation. 3,661,128, 5-9-72, Cl. 123-119.

Esher, Howard D.: *See—*
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Eshima, Shozo; Fujimura, Isao; and Nakagawa, Hidenori, to Chisso Corporation. Crimpable, colored polypropylene composite fibers. 3,657,062, 4-18-72, Cl. 161-173.

Esiban, Eduard Migranovich; and Danchenko, Mikhail Evgenievich, to Institut Elektrosvarki Imeni E. O. Patona. Non-consumable electrode for electric-arc process. 3,676,639, 7-11-72, Cl. 219-121.00r.

Eskay, Marion M., to Hubbel, Cohen & Stiefel. Means for converting magnetic tape cassette to audio-visual cassette. 3,664,603, 5-23-72, Cl. 242-180.

Eskeli, Michael. Rotary gas compressor. 3,650,636, 3-21-72, Cl. 417-78.

Eskelson, Ross W.; and Johnson, James S., to Thiokol Chemical Corporation. Apparatus for levelling, smoothing, and grading snow. 3,656,557, 4-18-72, Cl. 172-277.

Eskew, Mark F.; and Hyde, Beverly F., to Texas Instruments, Incorporated. Process and system for routing interconnections between logic system elements. 3,702,004, 10-31-72, Cl. 444-1.000.

Eskimo Pie Corporation: *See—*
Leonard, Edwin Clifton, 3,633,330.
Minor, Ronald E.; and McMillion, Sidney B., 3,647,478.

Eskridge, Marshall; and Willson, James K. V. Tissue auger. 3,683,891, 8-15-72, Cl. 128-2.00b.

Esler, Donald F.; and Choby, Edward G., Jr., to Allegheny Ludlum Industries, Inc. Surface finishing. 3,703,419, 11-21-72, Cl. 148-6.160.

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Eslyn, Wallace E.: *See—*
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Esmay, Donald L., to Minnesota Mining and Manufacturing Company. Fluorination process for preparing certain difluoramino compounds. 3,654,369, 4-4-72, Cl. 260-583.

Esmay, Donald L., to Minnesota Mining and Manufacturing Company. Fluorination process for preparing certain difluoramino compounds. 3,663,621, 5-16-72, Cl. 260-583.

Esmond, William G., to Becton Dickinson and Company. Pleated membrane transfer device. 3,695,445, 10-3-72, Cl. 210-321.000.

Esnouf, Michael Peter: *See—*
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Esnoult, Marc Roland Gilbert; and Ayme-Jouve, Michel Louis, to L'Electro-Refractaire. Upgraded cast refractory products. 3,667,981, 66-72, Cl. 117-2.00r.
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Espeland, Arthur J. Preformed building wall construction. 3,662,507, 5-16-72, Cl. 52-270.
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Ettinger, Bruce L.; and Wolosin, Samuel M., to General Electric Company. Refractory porous bodies. 3,666,526, 5-30-72, Cl. 117-46.0cb.
Ettinger, Donald H., to USM Corporation. Apparatus for pneumatically feeding studs to a welding gun. 3,694,611, 9-26-72, Cl. 219-98.000.
Ettinger, James P.; and Otteson, Christian S., to Electric Regulator Corporation. Single module power supply. 3,693,050, 9-19-72, Cl. 317-99.000.
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Ettischer, Helmut, to Eastman Kodak Company. Shutter control apparatus for photographic cameras. 3,685,408, 8-22-72, Cl. 95-10.00c.
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Ettlinger, Louis F., to General Electric Company. Bushing terminal guard. 3,639,681, 2-1-72, Cl. 174-138.
Ettlinger, Ralph, Jr.; and Kostohryz, Frank J., to Avant Industries, Inc. Silverware sorter. 3,653,507, 4-4-72, Cl. 209-97.
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Ettlinger, Ralph, Jr.; and Strobl, Frederick P., Jr., to Avant Industries, Inc. Silverware sorting means. 3,675,770, 7-11-72, Cl. 209-97.000.
Ettre, Kitty S.; and Castles, George Richard, to Vitta Corporation. Tape transfer to sinterable conductive, semiconductive or insulating patterns to electronic component substrates. 3,655,496, 4-11-72, Cl. 161-39.
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Eusebi, Elio, to General Motors Corporation. Polyethylene filled with treated chrysotile. 3,654,202, 4-4-72, Cl. 260-23.
Eusebi, Elio, to General Motors Corporation. Thermoplastic resin containing styrene-acrylonitrile copolymer and chlorinated polyethylene. 3,658,950, 4-25-72, Cl. 260-897.00c.
Eustice, Albert L., to Du Pont de Nemours, E. I., and Company. Film of polyurethane and ethylene-acrylic acid interpolymer. 3,646,158, 2-29-72, Cl. 260-859.
Eustice, Albert L. Adhesive interlayer suitable for constrained layer vibration damping. 3,658,635, 4-25-72, Cl. 161-190.
Eustis, William E. C.; and Howell, Wallace E., to Hedco, Inc. Snow precipitator. 3,703,991, 11-28-72, Cl. 239-2.00s.
Eutectic Corporation: *See—*
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Eutzler, Betty J. Device to prevent pilferage of merchandise. 3,690,130, 9-12-72, Cl. 70-18.000.
Evalahti, Osmo Rainer, to Osakeyhtio, A. Ahlstrom. Headbox for a paper machine providing for simultaneous adjustment of the front wall and mixing roll therein. 3,674,633, 7-4-72, Cl. 162-342.
Evalds, Egils. Circuit for controlling a heat generating device. 3,648,077, 3-7-72, Cl. 307-252.
Evalds, Egils. Temperature control circuit employing a variable resistance heating element. 3,679,871, 7-25-72, Cl. 219-499.000.
Evalds, Egils; and Coccio, Ernest F. Circuit for monitoring a temperature related condition and for controlling a heat generating device. 3,684,171, 8-15-72, Cl. 236-78.000.
Evalds, Egils, to Athena Controls, Inc. Thermocouple temperature control system. 3,684,172, 8-15-72, Cl. 236-78.000.

Evalds, Egils; and Coccio, Ernest F. Circuit for determining and controlling the current supplied to an adjustable resistance load. 3,684,947, 8e15-72, Cl. 323-24.000.
Evand, Lyle W.; and Slobbe, Walter W., to Sylvania Electric Products, Inc. Method of forming a color cathode ray tube screen. 3,689,265, 9-5-72, Cl. 96-36.100.
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Evans, Charles C.; and Sommer, Harry J., to Shell Oil Company. Paving asphalt compositions. 3,664,856, 5-23-72, Cl. 106-278.
Evans, Chauncey R., to Columbia Broadcasting System, Inc. Tone generator employing symmetrical wave generator rectangular. 3,637,913, 1-25-72, Cl. 84-1.01.
Evans, Chauncey R., to Columbia Broadcasting System, Inc. Octave jumper for musical instruments. 3,651,242, 3-21-72, Cl. 84-1.11.
Evans, Chauncey R., to Columbia Broadcasting System, Inc. Automatic on-off control. 3,663,735, 5-16-72, Cl. 84-1.11.
Evans, Christopher Charles, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in her Britannic Majesty's Government of the. Furnace for the manufacture of ceramics whiskers. 3,677,713, 7-18-72, Cl. 23-277.00r.
Evans, Clive, to Mitsubishi Heavy Industries, Ltd. Dummy bar mechanism. 3,653,427, 4-4-72, Cl. 164-274.
Evans, Cyril G., to Heathcoat, John, and Company Limited. Carbon filaments. 3,692,577, 9-19-72, Cl. 117-225.000.
Evans, David B.: *See—*
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Evans, David G., to United States of America, Army. Isolation of parallel cell stacks in thermal batteries by a squib switch. 3,689,776, 9-5-72, Cl. 307-66.000.
Evans, David J. I.; and Zubryckyj, Nicolas. Process for treating low-iron nickeliferous ores. 3,655,364, 4-11-72, Cl. 75-103.
Evans, David J. I.; and Weir, Donald Robert, to Sherritt Gordon Mines Limited. Recovery of nickel from nickel ammonium carbonate systems. 3,674,465, 7-4-72, Cl. 75-108.000.
Evans, David Llewellyn. Lifting devices. 3,682,342, 8-8-72, Cl. 214-653.000.
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Evans, David Maurice; and Theodore, Roy, to S & C Electric Company. Switch construction with non-bounce contacts. 3,676,629, 7-11-72, Cl. 200-166.00e.
Evans, David T., to Wells Manufacturing Corporation. Band saw blade cleaning means. 3,673,903, 7-4-72, Cl. 83-168.000.
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Evans, Dennis J.; and Elam, Richard C., to United Aircraft Corporation. Cobalt base coating for the superalloys. 3,676,085, 7-11-72, Cl. 29-194.000.
Evans, Dewey M.; and Manetta, Peter J., to Simplex Corporation. Automatic loading and transfer equipment. 3,651,958, 3-28-72, Cl. 214-1.
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Evans, Ernest C., to Kimberly-Clark Corporation. Cleansing lotion for personal hygiene. 3,634,259, 1-11-72, Cl. 252-89.
Evans, Ernest C., to Kimberly-Clark Corporation. Surface protection material. 3,669,252, 6-13-72, Cl. 206-46.0fn.
Evans, Evan Franklin; and Pierce, Norwin Caley, to Du Pont de Nemours, E. I., and Company. Composite polyester textile fibers. 3,671,379, 6-20-72, Cl. 161-173.000.
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Evans, George L.; Kronish, Donald P.; Prevorsek, Metka; Schwartz, Benjamin S.; and Zuriff, Lee S., to Warner-Lambert Company. Paper strip test for citrate utilization. 3,649,461, 3-14-72, Cl. 195-103.5.
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Evans, Grover C.; and Evans, Thomas J., to Evans, G. C., Products Corporation. Apparatus for heating and drying chilled, filled containers. 3,660,910, 5-9-72, Cl. 34-60.
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Evans, James P. Mud flap assembly. 3,684,312, 8-15-72, Cl. 280-154.50r.
Evans, Jerry E.; and Evans, Robert A. Wire mesh jig board. 3,681,835, 8-8-72, Cl. 29-203.00j.
Evans, John D., to Metals, Inc. Stock rack. 3,696,763, 10-10-72, Cl. 108-157.000.
Evans, John H., to Allis-Chalmers Manufacturing Company. Cam actuated interlock for pivot arm. 3,692,149, 9-19-72, Cl. 188-69.000.
Evans, John L.; and Rubino, Anthony G., to Singer Company, The, mesne. Method for producing bearing hemispherical cavities. 3,644,972, 2-29-72, Cl. 29-149.5.
Evans, John S., Jr.; and Jasper, Leslie L., to Mark Products, Inc. Orienting apparatus. 3,690,487, 9-12-72, Cl. 214-340.000.
Evans, John T.; and Kelling, Leroy U. C., to General Electric Company. Readout system for visually displaying stores data. 3,651,481, 3-21-72, Cl. 340-172.5.
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Evans, Marshall E.; and Platt, David M. H., to Corning Glass Works. System for controlling the electrical field in a fluid analyzing chamber. 3,649,504, 3-14-72, Cl. 204-195.
Evans, Marvin; and Miller, David H., to College Research Corporation. Afterburner. 3,658,482, 4-25-72, Cl. 23-277.
Evans, Marvin. Tape reel with cutter blade. 3,682,361, 8-8-72, Cl. 225-60.000.
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Holub, Fred F.; and Evans, Milton L., 3,652,716.

Holub, Fred F.; and Evans, Milton L., 3,689,464.
Evans, Milton L.; Mitchell, Tyrone D.; and Selin, Terry G., to General Electric Company. Method of making imidatosilanes. 3,646,084, 2-29-72, Cl. 260-448.2.
Evans, Milton L., to General Electric Company. Imidatosilanes. 3,665,026, 5-23-72, Cl. 260-448.8.
Evans, Monroe E., to Cape Fear Feed Products, Inc. Terminal heating process for freeing feed ingredients of salmonella. 3,666,498, 5-30-72, Cl. 99-216.000.
Evans, Norol T., to Hughes Aircraft Company. Automatic detection criteria control unit for pencil beam radars. 3,680,095, 7-25-72, Cl. 343-7.00a.
Evans, Pat E.: *See—*
Bucklin, Edward P., Jr.; Evans, Pat E.; and Gerlach, Richard K., 3,656,130.
Congleton, David B.; Roberts, Donald L.; and Evans, Pat E., 3,701,999.
Evans, Paul F.: *See—*
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Evans, Philip Henry, to Glenburn Engineering Limited; c/o Conyers Dill & Pearman Bank of Bermuda Bldg. Centrifugal governor speed control for electric motors. 3,660,703, 5-2-72, Cl. 310-68.00e.
Evans Products Company: *See—*
Chapman, Harvey W.; and Shook, Jackson A., 3,680,491.
Krokos, Raymond M.; and MacCurdy, William K., 3,691,963.
MacCurdy, William K., 3,648,851.
Mikulka, Bohuslav E., 3,632,371.
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Spaeth, Irvin J., 3,703,225.
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Ford, Ralph E.; and Ternes, Donald J., 3,634,986.
Evans, Ralph Henry, Jr.; and Holmlund, Chester Eric, to American Cyanamid Company. Preparation of 5,6-dihydro-5-hydroxy-6-propenyl-2- pyrone by fermentation and derivatives thereof. 3,701,787, 10-31-72, Cl. 260-343.500.
Evans, Ralph M., to Royal Industries, Inc. Laminating method and apparatus. 3,668,033, 6-6-72, Cl. 156-212.000.
Evans, Raymond J.; and Reinhardt, George L., to Continental Can Company, Inc. Method of manufacturing container bodies from composite strip material; container body blanks and container bodies. 3,656,513, 4-18-72, Cl. 138-141.
Evans, Richard A., to Lockheed Aircraft Corporation. Cargo restraint mechanism. 3,641,940, 2-15-72, Cl. 105-369.
Evans, Richard E.; and Zacher, Harold D., to Standard Oil Company (Indiana). Control of contact time in transport reactors. 3,644,199, 2-22-72, Cl. 208-120.
Evans, Richard H., to Hercules Incorporated. Aqueous explosive compositions having reversible fluent-non-fluent properties. 3,684,594, 8-15-72, Cl. 149-38.000.
Evans, Richard J., to Armstrong Cork Company. Wall edge trimmer for hard surface flooring. 3,653,124, 4-4-72, Cl. 30-293.
Evans, Richard O.: *See—*
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Evans, Richard V.; Williams, Virgil, Jr.; and Reiher, Max A. W., to Evans, Dick, Inc. Method and apparatus for installing pipe nipple. 3,636,876, 1-25-72, Cl. 102-24.
Evans, Robert A.: *See—*
Evans, Jerry E.; and Evans, Robert A., 3,681,835.
Evans, Robert F.: *See—*
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Evans, Robert G.; and Stifel, George R. P., to Uniroyal Ltd., mesne. Polyurethane foam with integral skin. 3,664,976, 5-23-72, Cl. 260-2.5.
Evans, Robert G. Two-stage drop hammer for driving large diameter pilling. 3,700,046, 10-24-72, Cl. 173-103.000.
Evans, Robert G., Company: *See—*
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Evans, Robert J., to Aurora Equipment Company. Latching mechanism. 3,702,137, 11-7-72, Cl. 211-176.000.
Evans, Robert P.; Hussar, Joseph P.; Evans, Gerald R.; and Dunn, Robert T. Automatic repertory telephone dialer with perforated strip number storage. 3,705,960, 12-12-72, Cl. 179-90.00r.
Evans, Robert R.; and Backlund, Peter Stanley, to Union Oil Company of California. Powdered wax suitable for emulsions and rubber blending. 3,644,130, 2-22-72, Cl. 106-270.
Evans, Robert W.; and Jackson, Stuart P., to Delta Venture. Static switch. 3,660,688, 5-2-72, Cl. 307-252.
Evans, Robert W., to United States of America, Navy, mesne. Signal flare. 3,670,657, 6-20-72, Cl. 102-87.000.
Evans, Robert W.; Grimm, Richard C.; and Olstein, Myron A., to Susquehanna Corporation, The. Aerosol disseminator. 3,678,857, 7-25-72, Cl. 102-39.000.
Evans, Robley D. Film badge radiation dosimeter for detecting radon. 3,655,975, 4-11-72, Cl. 250-83.
Evans, Roger L., to Minnesota Mining and Manufacturing Company. Biodegradable radioactive particles. 3,663,685, 5-16-72, Cl. 424-1.
Evans, Roger L., to Minnesota Mining and Manufacturing Company. Biodegradable parenteral microspherules. 3,663,687, 5-16-72, Cl. 424-1.000.
Evans, Ronald James Peter, to Talley Surgical Instruments Limited. Alternating pressure pads for bed patients. 3,678,520, 7-25-72, Cl. 5-91.000.
Evans, Ross Hugh; Seltzer, Daniel Arron; and Young, Robert Leonard, to Gamon-Calmet Industries, Inc. Telemetering remote recording unit. 3,700,816, 10-24-72, Cl. 179-2.0dp.
Evans, Sydney; and Graham, Reginald, to Associated Electrical Industries Limited. Beam correcting device for mass spectrometers and method of operation. 3,657,531, 4-18-72, Cl. 250-41.9.
Evans, Theodore A.; and Conger, Marvin T., to Goodyear Tire & Rubber Company, The. Explosive assembly including a body portion and a closure having a covering of elastomeric material. 3,635,847, 1-18-72, Cl. 260-2.5.
Evans, Theodore A.; Meck, Robert M.; and Thibodeau, Joseph E., to Goodyear Tire & Rubber Company, The. Compounding fluorocarbons and method of using same. 3,656,530, 4-18-72, Cl. 150-.5.
Evans, Theodore D. Tube clamping member. 3,682,422, 8-8-72, Cl. 248-68.0cb.
Evans, Theodore D. Hydraulic line fitting support apparatus. 3,695,563, 10-3-72, Cl. 248-56.000.
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Evans, Vincent L.; and Dyer, Dennis A., to British Nylon Spinners Limited. Manufacture of synthetic polymeric filaments. 3,694,539, 9-26-72, Cl. 264-210.00f.
Evans, Wallace D., Jr., to Rolatape Corporation. Measuring wheel apparatus. 3,673,693, 7-4-72, Cl. 33-141.00r.
Evans, Wallace D., Jr., to Rolatape Corporation. Measuring wheel construction. 3,696,510, 10-10-72, Cl. 33-141.00r.
Evans, Wayne Wheeler, to RCA Corporation. Signal seeking system for radio receivers with turning indicating circuitry for controlling the signal seeking. 3,632,864, 1-4-72, Cl. 178-5.8.
Evans, Wayne Wheeler, to RCA Corporation. VHF/UHF interlock circuit. 3,662,270, 5-9-72, Cl. 325-390.
Evans, Wendell I., to Cincinnati Milacron, Inc. Multisection valve and housing therefor. 3,698,435, 10-17-72, Cl. 137-625.180.
Evans, William E.: *See—*
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Evans, William E.; and Harding, Robert C., to Seaco Computer-Display Incorporated. Surge voltage protection for cathode ray tube drivers. 3,668,465, 6-6-72, Cl. 315-107.
Evans, William J.: *See—*
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Evans, William Robert. Resilient pin and method of production thereof. 3,634,819, 1-11-72, Cl. 339-252.
Evans, William Robert, to AMP Incorporated. Torsion contact zero-insertion force connector. 3,670,288, 6-13-72, Cl. 339-74.00r.
Evanson, Clifford E., to Baxter Laboratories Inc. Meat injection tenderization apparatus and method. 3,656,424, 4-18-72, Cl. 99-256.
Evart, Garri Voldemarovich: *See—*
Mozokhin, Nikolai G.; Maskenskov, Konstantin Mikhailovich; Kerimov, Niyazi Abdulkasim Ogly; Guseinova, Zuleikha Ismail Kyzy; Mekhtiev, Rafik Isrofil Ogly; and Evart, Garri Voldemarovich, 3,682,146.
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Even-Tov, Ori; and Dagan, Pinchas, to Israel Aircraft Industries, Ltd. Electrical switch responsive to sudden movements of an external element. 3,634,638, 1-11-72, Cl. 200-61.93.
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Evenson, Christopher B. Elliptical roller bearing. 3,655,251, 4-11-72, Cl. 308-183.
Evenson, Merle A., to Wisconsin Alumni Research Foundation. Treatment of blood with oleaginous substance. 3,647,624, 3-7-72, Cl. 195-1.8.
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Everaerts, Frans, to LKB-Produkter AB. Method in counterflow isotachophoresis. 3,705,845, 12-12-72, Cl. 204-180.00r.

Everest, Charles E.; and Voznick, Henry P., to Wahl, William, Corporation. Electromechanical intervalometer, and method of using same. 3,700,971, 10-24-72, Cl. 317-80.000.
Everest, David Anthony: *See—*
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Everett, Cecil D., to Warner & Swasey Company, The, mesne. Automatic balancing device. 3,698,139, 10-17-72, Cl. 51-237.000.
Everett, Charles T., to Everett Industries Incorporated. Cutting device control. 3,656,261, 4-18-72, Cl. 51-99.
Everett, Eric George: *See—*
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Everett, James L., III. Dynamically matched set of golf clubs. 3,698,239, 10-17-72, Cl. 73-65.000.
Everett, Larry H.; and Judy, Jack H., to International Business Machines Corporation. Method and apparatus for reading superimposed magnetic recordings. 3,668,671, 6-6-72, Cl. 340-174.10m.
Everett, Peter G., to Zenith Radio Corporation. Solid-state, acoustic-wave amplifiers. 3,686,579, 8-22-72, Cl. 330-5.500.
Everett, Rollo J.: *See—*
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Everett, Samuel R.; Shear, Wayne G.; and Ardila, Jorge E., to Bendix Corporation, The. Digital function generator for collision avoidance system. 3,636,336, 1-18-72, Cl. 235-197.
Everett, Thomas David, to Ampex Corporation. Cassette tape assembly. 3,695,553, 10-3-72, Cl. 242-199.000.
Everett, Wilhelm Sydow, to American Air Filter Company, Inc. Hydrodynamic surge absorbing apparatus. 3,669,150, 6-13-72, Cl. 138-26.000.
Everflex Products, Inc.: *See—*
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Everhart, John; and Felder, John Lawson, to Thiokol Chemical Corporation. Process for fast-fire ceramic tile using nepheline syenite and clay. 3,651,184, 3-21-72, Cl. 264-56.
Everitt, Allen D. Hat trim. 3,686,849, 8-29-72, Cl. 57-152.000.
Everitt, Kenneth John, 1/2 to White, Donald Patrick. Alarm device. 3,659,289, 4-25-72, Cl. 340-416.
Evernham, Brice A.; and Novick, Alvina M. Trailer hitch. 3,633,939, 1-11-72, Cl. 280-406.
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Evers, Theodore H.; and Pritchard, Eric K., to United States of America, Navy. Radiation tolerant relay control system. 3,652,900, 3-28-72, Cl. 317-148.
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Evers, William J.; Katz, Ira; Wilson, Richard A.; and Theimer, Ernst T., to International Flavors & Fragrances Inc. Heterocyclic pyrazines. 3,647,792, 3-7-72, Cl. 260-250.
Evers, William John: *See—*
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Evers, William John, to International Flavors & Fragrances Inc. Novel sulfur-containing compounds and compositions and processes therefor. 3,666,495, 5-30-72, Cl. 99-140.
Evers, William John. Apparatus for producing cyanogen chloride using a flooded reaction. 3,681,034, 8-1-72, Cl. 23-283.000.
Evers, William L.; and Champ, Antony E., to Celanese Corporation. Stabilized polyamides containing soluble copper compounds and halogenous compounds. 3,658,705, 4-25-72, Cl. 260-45.75.
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Everson, Charles W., to Merck & Co., Inc. Method of making sour dough bread. 3,681,083, 8-1-72, Cl. 99-90.00s.
Everson, Kirke B., Jr.; and Eisen, Stefan F. Aircraft hangaring support. 3,671,013, 6-20-72, Cl. 254-8.
Eversull, Richard F. Anti-theft detector and alarm systems for vehicles. 3,659,265, 4-25-72, Cl. 340-65.
Eversull, Richard F. Motor vehicle warm-up and battery charger system. 3,673,379, 6-27-72, Cl. 219-202.000.
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Every, Peter, to Kelsey-Hayes Company. Skid control valve assembly. 3,664,714, 5-23-72, Cl. 303-21.
Evesque, Roger A., to Seaquist Valve Company; division of Pittway Corporation. Aerosol valve with filling means. 3,674,185, 7-4-72, Cl. 222-402.160.
Evey, Gaylord H.; and Carson, John B., to Richland Glass Company, Inc. Method of sealing glass to metal. 3,632,325, 1-4-72, Cl. 65-56.
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Evgrafov, Boris Ivanovich; Kupeev, Jury Alexandrovich; and Turok, Galina Iosifovna, to Nauchno-issledovatelsky i experimentalny institut Avromobilnogo elektrooborudovania i avtopriboroo. Rectifier for an electric generator. 3,684,944, 8-15-72, Cl. 321-8.00.
Evinrude, Ralph S., to Outboard Marine Corporation. Convertible golf car. 3,671,071, 6-20-72, Cl. 296-69.000.
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Ewald, Ronald F., to Seaquist Valve Corporation. Aerosol valve. 3,658,215, 4-25-72, Cl. 222-402.18.
Ewald, Ronald F. Tilt valve. 3,658,294, 4-25-72, Cl. 251-354.
Ewald, Ronald F. Self-aligning aerosol overcap and button. 3,674,184, 7-4-72, Cl. 222-402.130.
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Ewald, Ronald F., to Seaquist Valve Company, division of Pittway Corporation. Co-dispensing valve. 3,690,515, 9-12-72, Cl. 222-136.000.
Ewald, Ronald F. Aerosol container. 3,702,669, 11-14-72, Cl. 222-402.160.
Ewald, William P., to Eastman Kodak Company. Flash device for cinematographic camera. 3,651,745, 3-28-72, Cl. 95-11.5.
Ewald, William P.; Nerwin, Hubert; and Harvey, Donald M. Assemblage and pack for self-processing film units. 3,672,274, 6-27-72, Cl. 95-13.000.
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Eyb, Wolfgang; and Klosterhuber, Robert, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Bearing for vehicle wheels, particularly for driven wheels of automobiles. 3,680,654, 8-1-72, Cl. 180-48.00r.
Eyb, Wolfgang, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Fuel systems for vehicles, especially motor vehicles. 3,692,051, 9-19-72, Cl. 137-544.000.
Eydieux, Marius, to Regie Nationale des Usines Renault. Milling cutters with detachable blades. 3,673,655, 7-4-72, Cl. 29-105.000.
Eyelet Speciality Company: *See—*
Landen, William James, 3,682,343.
Eyelet Specialty Company: *See—*
Geisel, Robert C., 3,653,776.
Landen, William James,, 3,659,735.
Landen, William James, 3,667,636.
Landen, William James, 3,680,745.
Landen, William James, 3,702,668.
Eyermann, Volker W., to Universal Oil Products Company. Solvent recovery process. 3,652,452, 3-28-72, Cl. 208-321.
Eyges, Leonard. Fireplace grate. 3,670,714, 6-20-72, Cl. 126-165.000.
Eyler, Francis R., to Bendix Corporation, The. Frequency independent peak detector. 3,700,920, 10-24-72, Cl. 307-235.00a.
Eylure Limited: *See—*
Aylott, Eric Victor, 3,703,180.
Eymard, Pierre L.: *See—*
Meunier, Henry E.; and Eymard, Pierre L., 3,649,630.
Meunier, Henry E.; and Eymard, Pierre L., 3,659,013.
Eyre, Brian; and Bland, John, to Padley & Venables Limited and McAlpin, Robert, Sir, & Sons Limited. Cutter picks. 3,671,075, 6-20-72, Cl. 299-79.000.
Eyring, William M.: *See—*
Early, James R.; Eyring, William M.; McGrath, Donald W.; and Takenaka, Toshio, 3,685,139.
Eyssen, Henrik, to Recherche et Industrie Therapeutiques R.I.T. Microbial reduction of Δ^5 steroids. 3,640,848, 2-8-72, Cl. 195-51.
Ez Painter Corporation: *See—*
Henningsen, Erik, 3,633,234.
Ezaki, Hideyuki, to Nippon Gakki Seizo Kabushiki Kaisha. Stringed musical instrument. 3,636,809, 1-25-72, Cl. 84-263.
Ezaki, Joichiro, to TDK Electronics Company, Limited. Magnetic-core memory matrix. 3,641,521, 2-8-72, Cl. 340-174.
Ezaki, Joichiro, to TDK Electronics Company, Limited. Magnetic-core memory matrix. 3,656,129, 4-11-72, Cl. 340-174.
Ezaki, Joichiro, to TDK Electronics Company, Limited. Diode matrix card. 3,671,811, 6-20-72, Cl. 317-101.00d.
Ezaki, Joichiro, to TDK Electronics Company, Limited. Core drive and biasing system. 3,680,048, 7-25-72, Cl. 340-166.00r.
Ezaki, Norio: *See—*
Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,661,892.
Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,697,648.
Ezaki, Shingo: *See—*
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Ezawa, Masayoshi, to Hitachi, Ltd. Aluminum electron shield coated with powder of one of iron, copper, nickel and cobalt. 3,689,792, 9-5-72, Cl. 313-85.00s.
Ezekiel, Frederick D.: *See—*
Schubert, Dale W.; and Ezekiel, Frederick D., 3,701,499.
Ezekiel, Herbert, to United States of America, Air Force. Preparation of graphite yarns. 3,635,675, 1-18-72, Cl. 23-209.1.
Ezekiel, Herbert M., to United States of America, Air Force. Method of stabilizing acrylic polymer fibers prior to graphitization. 3,671,192, 6-20-72, Cl. 23-209.100.
Ezekiev, Ezekiya Gueorguiev: *See—*
Tsvetkov, Krum Kostov; Ezekiev, Ezekiya Gueorguiev; Nikolov, Petko Petrov; and Otsetov, Vassil Christov, 3,674,991.
Ezell, Harry E. Mounting for outboard motor. 3,648,645, 3-14-72, Cl. 115-41.
Ezhov, Jury Valentinovich: *See—*

Plachenov, Tikhon Grigorievich; Belotserkovsky, Grigory Markovich; Dolgova, Ekaterina Nikolaevna; Ezhov, Jury Valentinovich; Fogel, Vladimir Alexandrovich; Benediktov, Andrei Pavlovich; and Avilov, Iliya Yakovlevich, 3,704,806.

Ezhov, Leonid Antipovich; Kudevitsky, Yankel Veniaminovich; and Belyaeva, Ljudmila Pavlovna, to Leningradsky Metallichesky Zavod Imeni XXII Siezda KPSS. Profile flat tooth milling cutter. 3,678,554, 7-25-72, Cl. 29-103.000.

Ezolt, James J.: *See—*
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Ezy-Way Manufacturing & Sales Co.: *See—*
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F. J. L. Corporation: *See—*
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F&M Taco Shell Company: *See—*
Brown, Robert E., 3,680,474.

Fa, Charles H.; and Suzuki, Clarence K., to Advanced Memory Systems, Inc. Method for forming a field effect device. 3,690,968, 9-12-72, Cl. 148-188.000.

Fa. Gebauer & Lehrner: *See—*
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Fa. Hans Hilgemann & Co. G.m.b.H.: *See—*
Hilgemann, Hans; and Gettmann, Hermann, 3,666,004.

Fa. Otto Thamert, Textil-u. Kunstastoff GmbH & Co., KG: *See—*
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Faarup, Peter: *See—*
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Fab Fibre Company: *See—*
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Fabbri, Ermanno, to Waldyssa S.A. Method and apparatus for wrapping articles in switchable sheet material. 3,662,513, 5-16-72, Cl. 53-33.000.

Fabbrica Italiana Magneti Marelli S.p.A.: *See—*
Basso, Eugenio; Ravaschio, Guglielmo; and Frangilli, Vittorio, 3,701,000.
Zoppi, Bruno, 3,667,815.
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Fabbro, Dario: *See—*
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Fabbro, Lawrence L.: *See—*
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Fabbro, Leo A.: *See—*
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Fabens, Andrew Lawrie, Jr., to Truline Casting Company. Apparatus for continuous casting of hollow bar. 3,678,990, 7-25-72, Cl. 164-274.000.

Faber, Gebhard: *See—*
Edl, Wolfgang; Faber, Gebhard; Koehler, Michael; Winter, Heinz; and Meyer, Heinz, 3,645,908.

Faber, Guy, to Aktiengesellschaft Brown, Boveri & Cie. Process for increasing the stability of protective chromium layers on metal. 3,642,517, 2-15-72, Cl. 117-71.

Faber, Guy; and Maggi, Carlo, to Aktiengesellschaft Brown, Boveri & Cie. Apparatus for protection of rotor vanes against surface erosion caused by impingement of high speed liquid drops. 3,689,178, 9-5-72, Cl. 416-224.000.

Faber, Jan W. H.: *See—*
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Faber, Jan Willem Hendrik: *See—*
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Faber, Jan Willem Hendrik, to Eastman Kodak Company. Laminated magnetic recording element. 3,634,185, 1-11-72, Cl. 161-183.

Faber, Kurt H. A. E.; and Norgen, Lars E., to Sandvikens Jernverks Aktiebolag. Boring bar insert. 3,697,187, 10-10-72, Cl. 408-154.000.

Faber, Peter, to Rheinisch-Westfalische-Elektrizitatswerk. Porous electrode-support for alkaline accumulators. 3,657,014, 4-18-72, Cl. 136-64.

Faber, Peter. Pumping apparatus for flowable concrete or the like. 3,659,966, 5-2-72, Cl. 417-395.

Faber, Peter, to Rheinisch-Westfalische-Elektrizitatswerk Aktiengesellschaft. Process for making nickel (II) hydroxide, especially for use in electrodes. 3,684,441, 8-15-72, Cl. 423-522.000.

Faber, Ulbe, to Burroughs Corporation. Expandable interlock exchange for multiprocessing systems. 3,651,473, 3-21-72, Cl. 340-172.

Fabi, Franco: *See—*
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Fabian, Wolfgang: *See—*
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Sevenich, Theodor Josef; Fabian, Wolfgang; and Kuhn, Klaus, 3,700,122.

Fabian, Wolfgang; Sevenich, Theodor; and Kuhn, Klaus, to Hoesch Aktiengesellschaft. Device for transporting slabs in rolling mills. 3,648,861, 3-14-72, Cl. 214-25.

Fabianke, Hartmut: *See—*
Gerke, Peter; Baur, Hans; Rutkowski, Karl; Binder, Hans-Eugen; Palsa, Helmut; and Fabianke, Hartmut, 3,668,319.

Fabiano, Leonard A., to Olin Corporation. Brine dechlorination. 3,668,087, 6-6-72, Cl. 204-99.000.

Fabiano, Lucian Philip, Jr., to Bell Telephone Laboratories, Incorporated. Line status control for electronic key telephone system. 3,637,939, 1-25-72, Cl. 179-18.

Fabiano, Lucian Philip, Jr.; Grandmaison, John Paul; Greason, William Wallace, III; and King, Ted R., Jr., to Bell Telephone Laboratories, Incorporated. Switching network control without network map. 3,647,980, 3-7-72, Cl. 179-18.

Fabick, John, to Fabick, John, Tractor Company. Hydraulic paddle wheel boat. 3,659,548, 5-2-72, Cl. 115-49.000.

Fabick, John, Tractor Company: *See—*
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Fabiny, Diane L.: *See—*
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Fabique d'Horlogerie Ch. Tissot & Fils S.A.: *See—*
Cachelin, Gerard, 3,675,414.

Fabo, Endre, to Airco Alloys AB. Method for the inactivation of pulverulent ferrosilicon. 3,684,479, 8-15-72, Cl. 75-.50b.

Fabre, Albert, to Rhone-Poulenc S.A. Tubular and porous fibres. 3,674,628, 7-4-72, Cl. 161-178.000.

Fabre, Pierre, to Tunzini-Sames. Apparatus for covering an object with a layer of powder. 3,659,151, 4-25-72, Cl. 317-3.

Fabre, Pierre; Giroud-Garampon Robert; Gondrand, Michel; and Raymond, Fernand, to Tunzini Ameliorair. Method for electrostatic coating of objects with a powder coating material. 3,695,909, 10-3-72, Cl. 117-17.500.

Fabre, Raymond Francis Andrian: *See—*
Heirbaut, Edmond Marie; Fabre, Raymond Francis Andrian; Camps, Josephus Henricus Karel; and Mees, Michael Marcel, 3,646,575.

Fabreeka Products Company: *See—*
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Fabri-Kal Corporation: *See—*
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Fabri-Tek Instruments, Inc.: *See—*
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Fabric Research Laboratories: *See—*
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Fabric Tire Hose Company: *See—*
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Fabrica d'Armi P. Beretta S.p.A.: *See—*
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Fabrica de Utilaje Si Piese de Schimb "Metalotehnico": *See—*
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Fabricated Metals, Inc.: *See—*
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Fabricius, John H., to Sprague Electric Company. Variable capacitor network. 3,668,478, 6-6-72, Cl. 317-101.

Fabriek van Bouwmaterialen 'Loevestein' N.V.: *See—*
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Fabrique d'Horlogerie Chas. Tissot & Fils S.A.: *See—*
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Fabrique d'Horlogerie Chis. Tissot et Fils S.A.: *See—*
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Fabrique d'Horlogerie Chs Tissot & Fils S.A.: *See—*
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Fabrique d'Horlogerie Chs. Tissot et fils S.A.: *See—*
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Fabrique d'Norlogerie Chs-Tissot et fils S.A.: *See—*
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Fabrique Nationale d'Armes de Guerre, Societe Anonyme: *See—*
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Bruelemans, Karel Bernard Marie, 3,668,895.

Fabriques de Produits Chimiques de Thann et de Mulhouse: *See—*
Fehr, Bernard H. P.; and Gascon, Joseph, 3,649,168.

Facchini, Alessandro, to Snam Progetti S.p.A. Device and apparatus suitable to pulsed and controlled transfer of solids in liquid phase. 3,690,729, 9-12-72, Cl. 302-15.000.

Faccou, Armand L., to FMC Corporation. Pipe swivel joint for corrosive fluids. 3,679,235, 7-25-72, Cl. 285-14.000.

Face, William W.; Katz, Harold W.; and Miller, Murray H., to KMS Industries, Inc. Two-way community antenna television system. 3,668,307, 6-6-72, Cl. 178-5.6.

Facha, Joseph V.: *See—*
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Fachbach, Heinz: *See—*
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Thien, Gerhard; and Fachbach, Heinz, 3,695,386.

Fachbach, Heinz; and Thien, Gerhard, to List, Hans. Internal combustion engine with sound-absorbing casing. 3,684,053, 8-15-72, Cl. 181-33.00k.

Facius, Thomas F., to Baltimore Aircoil Company, Inc. Water supply system. 3,659,623, 5-2-72, Cl. 133-255.000.

Fackler, Kenneth C.; Bradford, John O.; and Meiners, Elmo R. Farm implement leveling mechanism. 3,658,362, 4-25-72, Cl. 280-414.5.
Faconti, Victor, Jr.; and Booth, William C., to Singer Company, The, mesne. Switching device and associated visual display for training apparatus. 3,707,044, 12-26-72, Cl. 35-12.000.
Facquet, Louis: *See—*
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Factor, Arnold: *See—*
Chalk, Alan J.; and Factor, Arnold, 3,679,629.
Factor, Arnold, to General Electric Company. Separation of poly (2,6-dimethyl-1,4-phenylene oxide) from its blends with other polymers. 3,644,227, 2-22-72, Cl. 260-2.3.
Factor, Arnold, to General Electric Company. Method for stabilizing pigmented polycarbonate resins. 3,673,146, 6-27-72, Cl. 260-37.0pc.
Factor, Arnold, to General Electric Company. Deionization of liquid media. 3,687,829, 8-29-72, Cl. 204-149.000.
Factor, Arnold; and Heinsohn, George E., to General Electric Company. Redox polymers. 3,694,384, 9-26-72, Cl. 260-2.20r.
Factory Mutual Research Corporation: *See—*
Champagne, Carol Z., 3,684,023.
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Livingston, William L., 3,642,072.
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Livington, William L., 3,655,136.
Yao, Cheng, 3,692,118.
Zenker, Karol R., 3,705,691.
Fadden, William J., Jr. Pollution free electric power and water producing station utilizing the kinetic and potential energy of water wind waves. 3,685,291, 8-22-72, Cl. 60-57.00t.
Fader, John H.; Keijzer, Johan H.; and Graulus, Marcel J. R., to Monroe Belgium N.V. Vehicle leveling system. 3,687,480, 8-29-72, Cl. 280-124.00f.
Fader, John H.; Keijzer, Johan H.; and Graulus, Marcel Josef Roger, to Monroe Belgium N.V. Combination shock absorber and supplementary air spring unit and method of assembling same. 3,700,225, 10-24-72, Cl. 267-35.000.
Fadler, Kurt: *See—*
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Fadner, Thomas A.; and Kraske, Karl V., to Ethyl Corporation. Coating of webs by freeze-drying and products therefrom. 3,702,779, 11-14-72, Cl. 117-102.00r.
Faehling, Francis L.: *See—*
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Faelten, Carl R.: *See—*
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Faerber, Hans Arthur, to NID Pty. Limited. Confectionery bar extruding machine. 3,632,258, 1-4-72, Cl. 425-223.
Faesel, Jurgen: *See—*
Wieland, Theodor; Konz, Wilhelm; Faesel, Jurgen; and Lewalter, Jurgen, 3,705,887.
FA.G. Siegle & Co. GmbH: *See—*
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Fagan, Castle Hugh: *See—*
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Fagan, James R., to North American Rockwell Corporation. Film viewer. 3,699,327, 10-17-72, Cl. 240-41.300.
Fagan, Lloyd D.; Hadden, David R., Jr.; Haratz, David; and Sarlo, Lorenz M., to United States of America, Army. FIFO shift register memory with marker and data bit storage. 3,646,526, 2-29-72, Cl. 340-173.
Fagan, William F.: *See—*
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Fagarazzi, Frank, to General Motors Corporation. Anti-lash mechanism for the change speed gearing of motor vehicles and other purposes. 3,648,534, 3-14-72, Cl. 74-440.
Fagen, John. Compressor for cam follower spring. 3,676,913, 7-18-72, Cl. 29-217.000.
Fagerholt, Gunnar Rindal, to Smidth, F. L., & Co. Apparatus for grinding mineral materials. 3,633,832, 1-11-72, Cl. 241-70.
Fagersta Bruks AB: *See—*
Hallstrom, Ingemar Gustaf Terje; Jarleborg, Martin Holger; and Tarnblom, Stig-Goran Harry, 3,674,570.
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Loqvist, Kaj-Ragnar, 3,677,060.
Fagerstrom, Kurt Gunnar, to Aktiebolaget Electrolux. Method of drying articles being surface-coated. 3,678,595, 7-25-72, Cl. 34-13.400.
Faget, Maxime A., to United States of America, National Aeronautics and Space Administration. Space shuttle vehicle and system. 3,702,688, 11-14-72, Cl. 244-155.000.
Faggin, Federico: *See—*
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Fahey, Darryl R., to Phillips Petroleum Company. Manufacture of palladium or platinum-containing compounds. 3,671,560, 6-20-72, Cl. 260-429.00r.
Fahey, Darryl R., to Phillips Petroleum Company. Ortho-chlorination of azobenzene. 3,676,421, 7-11-72, Cl. 26-205.000.
Fahey, Darryl R., to Phillips Petroleum Company. Halo(haloorgano) bis(triorganophosphine) nickel(II) complexes for olefin dimerization. 3,686,245, 8-22-72, Cl. 260-439.000.
Fahey, Thomas M.; and Mentzell, John C., to Westinghouse Electric Corporation. High-ratio drive mechanism. 3,668,946, 6-13-72, Cl. 74-640.000.
Fahlbush, Hans Joachim, to Schmalbach-Lubeca-Werke Aktiengesellschaft. Fully opening cover of sheet metal for cans. 3,674,171, 7-4-72, Cl. 220-54.000.
Fahlenberg, Paul; and Pross, Wilhelm, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Photographic shutter with electro-magnetic drive means. 3,654,845, 4-11-72, Cl. 95-53.
Fahlenberg, Paul, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Photographic camera. 3,695,158, 10-3-72, Cl. 95-10.0ce.
Fahlin, James R.; and Hagfors, Gerald D., to Graco Inc. Sanitary spray gun. 3,670,967, 6-20-72, Cl. 239-412.000.
Fahlstrom, Rune: *See—*
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Fahnestock, James D.: *See—*
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Fahnoe, Eric R., to Hercules Incorporated. Current or voltage-to-frequency converter using negative feedback. 3,638,101, 1-25-72, Cl. 321-60.
Fahr Bucher GmbH Gottmadingen: *See—*
Sauerbruch, Ernst; Scherrer, Donat; and Vogt, Willy, 3,674,400.
Fahrbach, Gerhard: *See—*
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Fahrbach, Kurt Erich, to Siemens Aktiengesellschaft. Arrangement for establishing the speed of flow of blood. 3,675,192, 7-4-72, Cl. 340-3.00d.
Fahrenholtz, Kenneth Earl, to Hoffmann-La Roche Inc. 7,10-Dihydro-3-alkyl-6H-dibenzo[b,d]pyran-6,9(8H)-diones and 5-hydroxy-7-alkyl-4-chromanones. 3,636,058, 1-18-72, Cl. 260-343.2.
Fahrenholz, Heinz, to Demag Aktiengesellschaft. Device for the controlled rotation and feeding of a workpiece particularly for a cold pilger machine. 3,705,655, 12-12-72, Cl. 214-338.000.
Fahrenkrug, Gunter: *See—*
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Fahrni, Fred: *See—*
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Faibisch, Frances M.: *See—*
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Faidutti, Michel; Boileau, Jacques; Konrat, Jean-Paul; and Billaz, Rene, to Etat Francais, represente par le Ministre des Armees Delegation Ministerielle pour l'Armement Direction des Poudres. 4-Imino-oxazolidin-2-ones and process of preparation. 3,671,55, 6-20-72, Cl. 260-307.00c.
Faigenbaum, Mark A.: *See—*
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Faigenbaum, Mark A.; Lasky, Daniel J.; and Weisel, Harold C., to International Business Machines Corporation. Process for making resist stencils from photographic stripping films and for using same. 3,669,665, 6-13-72, Cl. 96-36.000.
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Faigle, Heinz. Packing for a cooling tower. 3,652,066, 3-28-72, Cl. 261-109.
Faigle, Johann Werner: *See—*
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Faile, John S.: *See—*
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Faille, Marc Della; Fripiat, Jose; and Mercier, Jean. Organomineral polymeric material. 3,692,816, 9-19-72, Cl. 260-46.50r.
Failli, Amedeo; and Gotz, Manfred, to American Home Products Corporation. Derivatives of imidazolidin-2-ones and -2-thiones. 3,707,472, 12-26-72, Cl. 260-293.700.
Fain, Arnold Izrailevich: *See—*
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Fain, Bobby Ray, to Alamance Industries, Inc. Method of false-twisting multifilament yarn. 3,667,209, 6-6-72, Cl. 57-157.0ts.
Fair, Albert Edward Harold. Drying system for a papermaking machine. 3,643,338, 2-22-72, Cl. 34-6.
Fair, Donald G.; Baeverstad, Harold L.; and Fisher, William G., to Sundstrand Corporation. Control system. 3,668,653, 6-6-72, Cl. 340-172.5.
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Fairaizl, Max L.; and Schneerman, John F., to Health-Mor, Inc. Vacuum cleaner shag rug nozzle construction. 3,668,734, 6-13-72, Cl. 15-328.000.
Fairbairn, Thomas E. Radio frequency generated electron beam torch. 3,648,015, 3-7-72, Cl. 219-121.
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Fairbanks, Charles W.; and Rosecrants, William J., Jr., to Eastman Kodak Company. Eliminating processing defects in light-sensitive silver halide materials. 3,690,892, 9-12-72, Cl. 96-110.000.
Fairbanks, Henry N., to Itek Corporation. Photographic processor. 3,698,306, 10-17-72, Cl. 95-94.000.
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Fairbanks, Theodore H., to FMC Corporation. Manufacture of webs having selected oriented portions. 3,632,716, 1-4-72, Cl. 264-145.
Fairbanks, Theodore H., to FMC Corporation. Reticulated nylon structures. 3,644,239, 2-22-72, Cl. 260-2.5.
Fairbanks, Theodore H., to FMC Corporation. Apparatus for extruding net-like structures. 3,649,142, 3-14-72, Cl. 425-109.
Fairbanks, Theodore H., to FMC Corporation. Apparatus for making extruded nets having integral stand junctions. 3,654,031, 4-4-72, Cl. 156-441.
Fairbanks, Theodore H., to FMC Corporation. Sonic nucleation in foam extrusion. 3,663,668, 5-16-72, Cl. 264-23.
Fairbanks, Theodore H.; Gillespie, Robert F.; and Nelson, Dorsey C., to FMC Corporation. Apparatus for making oriented webs. 3,664,780, 5-23-72, Cl. 425-66.
Fairbanks, Theodore H., to FMC Corporation. Apparatus for making scored film. 3,664,787, 5-23-72, Cl. 18-12.
Fairbanks, Theodore H., to FMC Corporation. Cellular structures. 3,673,057, 6-27-72, Cl. 161-68.000.
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Fairbanks, Theodore H. Oriented webs and method for making the same. 3,682,760, 8-8-72, Cl. 161-123.000.
Fairbanks, Theodore H., to FMC Corporation. Method for making reticulated structures. 3,683,059, 8-8-72, Cl. 264-167.000.
Fairbanks, Theodore H., to FMC Corporation. Method for making net structures. 3,686,380, 8-22-72, Cl. 264-103.000.
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Fairbanks, Theodore H., to FMC Corporation. Method for extrusion of interlaced webs. 3,689,617, 9-5-72, Cl. 264-103.000.
Fairbanks, Theodore H., to FMC Corporation. Manufacture of webs having selected oriented portions. 3,694,537, 9-26-72, Cl. 264-145.000.
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Klein, Thomas; and Faggin, Federico, 3,673,471.
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Fairfield, Hugh J., to Du Pont of Canada Limited. Conversion apparatus for textile fibres. 3,653,094, 4-4-72, Cl. 19-83.
Fairfield, Hugh J., to Du Pont of Canada Limited. Crimped discontinuous filaments. 3,676,991, 7-18-72, Cl. 57-140.00r.
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Fairfield Manufacturing Company, Inc., mesne: *See—*
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Fairweather, Ernest Sidney; and Furby, Jim, to Errut Products Limited. Apparatus for treating or digging into surfaces and cutting members for this apparatus. 3,695,722, 10-3-72, Cl. 299-39.000.
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Faitani, Joseph J.: *See—*
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Faith, Herman Eldridge, to Dow Chemical Company, The. Substituted-5-[(3,4-dihalophenoxy)methyl]-2-oxazoline compounds. 3,637,726, 1-25-72, Cl. 260-307.
Faith, Herman Eldridge; and Trepanier, Donald L., to Dow Chemical Company, The. Indeno[1,2-b]-1,4-oxazines. 3,642,789, 2-15-72, Cl. 260-244.
Faith, Herman Eldridge, to Dow Chemical Company, The. 8-Substituted-acenaphth(1,2-d)oxazole compounds. 3,651,078, 3-21-72, Cl. 260-307.
Faith, Jack L.; Boysel, Lee L.; and Murphy, Joseph P., to Four-Phase Systems, Inc. MOS circuit with nodal capacitor predischarging means. 3,702,945, 11-14-72, Cl. 307-251.000.
Faith, Ruth L.; and Grobman, William, to Singer Company, The, mesne. Card deck checker. 3,679,876, 7-25-72, Cl. 235-61.70r.
Faith, William T., Jr.: *See—*
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Faith, William T., Jr.; Steigerwalt, Ronald B.; and Robbins, Ernest A., to Rohm & Haas Company. Fish protein solubilization using alkaline bacterial protease. 3,697,285, 10-10-72, Cl. 99-18.000.

Faivre, Bernard. Device for rapid attachment. 3,636,594, 1-25-72, Cl. 24e73.
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Falck-Muus, Harald. Spiral solvent dyeing of candles. 3,702,228, 11-7-72, Cl. 8-6.000.
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Falcy, Bernard C.; and Mazuir, Rene, to Societe Anonyme des Hauts Fourneaux de la Chiers. Cables having non-metallic cores. 3,686,855, 8-29-72, Cl. 57-145.000.
Faldi, Giovanni. Compressed air pump, particularly for concrete. 3,667,865, 6-6-72, Cl. 417-122.000.
Falenks, John, to Diversified Medical Corporation. Apparatus for automatic inflation of cavities of the body. 3,674,010, 7-4-72, Cl. 128-2.00r.
Fales, Douglas I., to General Motors Corporation. Vehicle condition responsive monitoring system. 3,660,814, 5-2-72, Cl. 340-52.
Fales, Douglas I., to General Motors Corporation. Vehicle condition responsive monitoring system having priority indication. 3,665,383, 5-23-72, Cl. 340-52.
Fales, Douglas I., to General Motors Corporation. Multiple indicating telltales having sequential indications. 3,671,962, 6-20-72, Cl. 340-373.000.
Faley, Eric Lake; and Riewe, David Paul, to Western Electric Company, Incorporated. Fluidic device having visible ionizable fluid flow. 3,635,236, 1-18-72, Cl. 137-81.5.
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Falk, Fred W. Absorbed ionizing radiation measuring device. 3,676,682, 7-11-72, Cl. 250-83.600.
Falk, George L.; and Jones, Daniel F., to Trane Company, The. Mobile refrigeration system. 3,646,773, 3-7-72, Cl. 62-160.
Falk, Henry J., to Union Carbide Corporation. Flexible partition for refrigerated storage chamber. 3,638,450, 2-1-72, Cl. 62-329.
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Falk, John D. Sterilization of protein containing fluids. 3,706,631, 12-19-72, Cl. 195-1.800.
Falk, Mervin L., to Newell Industries. Transducer positioning system using radiation sensitive means. 3,633,038, 1-4-72, Cl. 250-231.
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Falk, Ronald E., to Chandler Evans Inc. Digital P. I. servo control system. 3,644,815, 2-22-72, Cl. 318-609.
Falk, Ronald E., to Chandler Evans, Inc. Digital function generator. 3,651,317, 3-21-72, Cl. 235-197.
Falk, Sven Uno; and Alfelt, Lars-Goran, to Svenska Ackumulator Aktiebolaget Jungner. Method of producing an electrode for alkaline batteries. 3,640,772, 2-8-72, Cl. 136-67.
Falke, Henning, to Vereinigte Draht- und Kabelwerke Aktiengesellschaft Berlin und Duisburg. Support arrangement for the conductors of low temperature cables. 3,691,287, 9-12-72, Cl. 174-28.000.
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Falkehag, Sten I.; Bills, Alan M.; and Hintz, Harold L., to Westvaco Corporation. Method for increasing bisulfite pulp yield comprising treating lignocellulosic material with cyanide ions at a pH of 7-12 prior to digestion. 3,663,358, 5-16-72, Cl. 162-70.00.
Falkehag, Sten I.; Moorer, Howard H.; Prazak, Gerald; and Bailey, Carl W., III, to Westvaco Corporation. Alkylene chlorohydrin, oxide or carbonate modified sulfonated lignins in a disperse or vat dye cake. 3,672,817, 6-27-72, Cl. 8-79.000.
Falkehag, Sten I., to Westvaco Corporation. Hexamethylene tetramine derivatives of alkalilignins. 3,697,497, 10-10-72, Cl. 260-124.00a.
Falkenau, Vernon A., to Uniroyal, Inc. Spring. 3,638,254, 2-1-72, Cl. 5-351.
Falkenberg, Douglass R., to Douglass Manufacturing Company. Sharpening device. 3,693,219, 9-26-72, Cl. 29-78.000.
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Falkin, Abraham J. Transparent package. 3,659,705, 5-2-72, Cl. 206-45.340.
Falkner, Chester B., to Deep Oil Technology, Inc. Self-purging multi-contact electrical connector. 3,657,681, 4-18-72, Cl. 339-61.
Falkner, Chester B., Jr., to Deep Oil Technology, Inc. Subsea wellhead system. 3,633,667, 1-11-72, Cl. 166-.5.
Falkner, Raimund, to Rapena Patent & Verwaltungs AG. Method and device for making up metal bands into hollow rails. 3,689,970, 9-12-72, Cl. 29-155.00r.
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Fally, Jacques; Lazennec, Yvon; and Lasne, Claude, to Compagnie Generale d'Electricite. Fuel cells and fuel cell batteries operating at high temperature and process of manufacture thereof. 3,668,010, 6-6-72, Cl. 136-86.00f.
Faltersack, Edward J. Portable cooking grill. 3,636,938, 1-25-72, Cl. 126-30.
Faltin, Hans G. Pre-printed inserts and feed means therefor. 3,669,814, 6-13-72, Cl. 161-37.000.
Falvert, Daniel; Giralt, Georges; Clot, Jean; and Authie, Gerard, to Compagnie Generale d'Automatisme. Method and device for simulating traffic. 3,686,492, 8-22-72, Cl. 235-184.000.
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Fan, George J.; and Greiner, James H., to International Business Machines Corporation. Three dimensional optical read-only memory. 3,643,233, 2-15-72, Cl. 340-173.2.
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Fancher, Llewellyn W., to Stauffer Chemical Company. 2-Aminobenzothiazol phosphates and phosphonates used as insecticides. 3,700,771, 10-24-72, Cl. 424-200.000.
Fancher, Llewellyn W., to Stauffer Chemical Company. Plant growth regulators. 3,701,799, 10-31-72, Cl. 260-468.00p.
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Fancy, Richard E., to General Motors Corporation. Control belt system for a vehicle body occupant restraining belt arrangement. 3,694,002, 9-26-72, Cl. 280-150.0sb.
Fandetti, Matthew R.; and De Azevedo, Joseph P. Coupling device. 3,645,562, 2-29-72, Cl. 285-73.
Fane, William J.; and Sanders, Vernard W., to Norris Industries, Inc. Pick proof locking plate for padlock. 3,653,235, 4-4-72, Cl. 70-38.
Fanella, Robert J.: *See—*
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Fang, Frank F.; and Fowler, Alan B., to International Business Machines Corporation. Process for making MOSFET's. 3,679,492, 7-25-72, Cl. 148-1.500.
Fang, Frank F.; and Lean, Eric G., to International Business Machines Corporation. Acoustic wave parametric amplifier/converter. 3,679,985, 7-25-72, Cl. 330-4.600.
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Fang, James C., to Du Pont de Nemours, E. I., and Company. High temperature resistant coating composition of an aromatic polyamide and an epoxy resin. 3,657,380, 4-18-72, Cl. 260-831.
Fang, James C., to Du Pont de Nemours, E. I., and Company. Tetrafluoroethylene/hexafluoropropylene copolymer particles dispersed in organic liquids. 3,661,831, 5-9-72, Cl. 260-32.8.
Fang, Yang, to International Business Machines Corporation. Phase jitter extraction method for data transmission systems. 3,701,023, 10-24-72, Cl. 325-329.000.
Fangman, Charles N.; and Gutzwiller, Walter R., to Caterpillar Tractor Company. Spacer deck for cylinder block. 3,653,369, 4-4-72, Cl. 123-193.
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Farrace, Frederick Thomas: *See—*
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Farrand, Clair L., to Inductosyn Corporation. Position-measuring transformer having end-detecting windings useful for positioning a magnetic head of a disc drive system. 3,673,584, 6-27-72, Cl. 340-174.10c.
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Farrand, Weston B.; Gardner, John N.; and Valenti, Robert M., to Space Ordnance Systems Inc., mesne. Microdetonator assembly. 3,686,934, 8-29-72, Cl. 86-1.000.
Farrand, William A., to North American Rockwell Corporation. Process for producing magnetic transducer with narrow sensing tip. 3,668,042, 6-6-72, Cl. 156-309.000.
Farrant, David J. Systems for drawing trailers behind tractors. 3,679,230, 7-25-72, Cl. 280-405.00b.
Farrar, Ed: *See—*
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Farrar, Henry C.; Shichman, Daniel; and Wos, Joseph S., to Uniroyal, Inc. Process and apparatus for texturizing yarn. 3,650,103, 3-21-72, Cl. 57-34.
Farrar, Ralph C.: *See—*
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Farrar, Ralph C., to Phillips Petroleum Company. Polymerization of conjugated dienes and monovinyl aromatic compounds with multifunctional polymerization initiators. 3,644,322, 2-22-72, Cl. 260-94.2.
Farrar, Ralph C., to Phillips Petroleum Company. Polymerization of conjugated dienes or monovinyl aromatic monomers with multifunctional initiators from diisopropenylbenzene. 3,652,516, 3-28-72, Cl. 260-83.7.
Farrar, Ralph C.; and Wofford, Clinton F. Process of coupling alkali metal-terminated polymers with silicic compound in presence of conjugated dienes. 3,692,874, 9-19-72, Cl. 260-880.00b.
Farrar, Reed A., to United States of America, Navy. Helmet mounted holographic aiming sight. 3,633,988, 1-11-72, Cl. 350-3.5.
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Farrell, Buster F. Connecting and tensioning device for the in situ repair of broken drive chains and tracks. 3,648,973, 3-14-72, Cl. 254-67.
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Farrell, Gerald J., to Elkay Manufacturing Company. Appliance retainer structure. 3,680,152, 8-1-72, Cl. 4-187.00a.
Farrell, Guy M. Lamp socket construction. 3,641,481, 2-8-72, Cl. 339-126.
Farrell, Guy M., to Chicago Switch, Inc. Rocker switch. 3,671,693, 6-20-72, Cl. 200-67.00g.
Farrell, John D., to Massillon Container Co. Basket construction. 3,700,160, 10-24-72, Cl. 229-34.00r.
Farrell, John W.; and Forgeng, William D., to Union Carbide Corporation. Method of making ferrosilicon alloy. 3,660,081, 5-2-72, Cl. 75-129.
Farrell, Richard, to United States of America, National Aeronautics and Space Administration. Lead attachment to high temperature devices. 3,665,589, 5-30-72, Cl. 29-492.000.
Farrell, Robert C.; and Milton, Thomas J., to General Motors Corporation. Condition monitoring electrical switch. 3,646,285, 2-29-72, Cl. 200-61.08.
Farrell, Robert G.: *See—*
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Farrell, Robert P., Jr., to United States of America, Interior, mesne. Snagging device for inverted grinder. 3,701,486, 10-31-72, Cl. 241-46.110.
Farrell, Roy Keith, to Research Corporation. Method and means for marking animals for identification. 3,633,584, 1-11-72, Cl. 128-316.
Farrell, Wilfred T., Jr.: *See—*
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Farren, Gerard M., to Perkin-Elmer Corporation, The. Ion selective electrode for activity determination of cations which do not form as ionic semiconductors. 3,657,093, 4-18-72, Cl. 204-195.
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Farris, Walter. Multi-well agar-gel punch. 3,631,575, 1-4-72, Cl. 25-105.
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Farymann Diesel, Farny & Weidmann: *See—*
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Fasol, Robert: *See—*
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Fassbender, Henry J.; and Case, Nelson S., to Eastman Kodak Company. Photographic stabilizing baths inhibited against corrosion with polyalkylene glycols. 3,667,951, 6-6-72, Cl. 96-61.000.

Fassbender, Henry J., to Eastman Kodak Company. Color stabilization processing. 3,667,952, 6-6-72, Cl. 96-61.

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Fassett, Matthew; and Unger, Phyllis S., to Stromberg-Carlson Corporation. Digital-to-analog and analog-to-digital signal translation with optical devices. 3,641,564, 2-8-72, Cl. 340-347.

Fassett, Matthew, to Raytheon Company. Annular slot antenna with stripline feed. 3,665,480, 5-23-72, Cl. 343-754.

Fassler, Edwin Eduard. Coupling for combustion tubes. 3,677,515, 7-18-72, Cl. 251-149.700.

Fassler, Michael H.; and Perron, James S., to United Aircraft Corporation. Method of removing silaceous cores from nickel and cobalt super alloy castings. 3,698,467, 10-17-72, Cl. 164-132.000.

Fassler, Michael H.; and Brinker, Norman E., to United Aircraft Corporation. Process of casting utilizing magnesium oxide cores. 3,701,379, 10-31-72, Cl. 164-132.000.

Fast, Clarence R.; Rix, Frederick H.; and Duffield, Ernest L., Jr., to Amoco Production Company. Retarded acid emulsion. 3,681,240, 8-1-72, Cl. 252-8.55c.

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Fath, Joseph; and Rosen, Marvin, to Tenneco Chemicals, Inc. Aqueous surface-coating compositions containing hydroxyalkyl ethers of galactomannan gums as thickeners. 3,700,612, 10-24-72, Cl. 260-17.4st.

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Fathauer, George H., to Hill, Harold, Jr., mesne. Impedance measuring circuit including means for automatically adjusting initial condition thereof. 3,675,120, 7-4-72, Cl. 324-61.00r.

Fathauer, George H., to Zaring Industries, Inc. Speech scrambler. 3,686,571, 8-22-72, Cl. 325-32.000.

Fathauer, George H., to Overton Corporation. Sample scale. 3,701,390, 10-31-72, Cl. 177-113.000.

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Fattelay, Robert. Sound-insulating device for noisy apparatus. 3,667,571, 6-6-72, Cl. 181-36.

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Fattore, Vittorio: *See—*
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Fatur, James I. Golf putting practice device and putting aid. 3,659,856, 5-2-72, Cl. 273-177.00r.

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Fauber, Eugene M. Asphaltic composition. 3,663,281, 5-16-72, Cl. 106-279.

Fauber, Eugene M., to Atlantic Richfield Company. Coating removal method. 3,664,871, 5-23-72, Cl. 134-6.

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Faulk, Joseph H.; Hanke, Jurgen J.; and Striegler, John H., to Atlantic Richfield Company. Drill pipe vibration control in rotary drilling. 3,635,294, 1-18-72, Cl. 175-65.

Faulk, Joseph H.; Kern, Loyd R.; and King, Graham E., to Atlantic Richfield Company. Slim hole drilling. 3,675,728, 7-11-72, Cl. 175-57.000.

Faulkes, Kenneth Milford; and Hayes, Alan Michael, to English Electrical Company Limited, The. Phase-responsive circuits. 3,683,345, 8-8-72, Cl. 340-207.00p.

Faulkner, Bonnie G. After burning device for internal combustion engines. 3,690,105, 9-12-72, Cl. 60-283.000.

Faulkner, Eric Andrew, to Brookdeal Electronics Limited. Electronic phase sensitive detector circuits. 3,673,506, 6-27-72, Cl. 329-103.

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Faulkner, John P., to Burroughs Corporation. Method of electrodepositing ferromagnetic alloys. 3,637,471, 1-25-72, Cl. 204-43.

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Faulstich, Marga; and Neuroth, Norbert, to JENAer Glaswerk Schott & Gen. Glasses for temperature-stable ultrasonic delay lines of low damping characteristics. 3,687,697, 8-29-72, Cl. 106-53.000.

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Fauran, Claude P.; Raynaud, Guy M.; Oliver, Rene A.; and Douzon, Colette A., to Delalande S.A. Derivatives of 5-carbamoyloxmethyl-3-substituted-2-oxazolidinones, process of preparation thereof and their therapeutic application. 3,641,036, 2-8-72, Cl. 260-68.
Fauran, Claude P.; Raynaud, Guy M.; Gouret, Claude J.; and Douzon, Colette A., to Delalande S.A. 5-Propargyloxymethyl-2-substituted oxazolidinones. 3,642,806, 2-15-72, Cl. 260-295.
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Fauran, Claude P.; Turin, Michel J.; Raynaud, Guy M.; and Gouret, Claude C., to Delalande S.A. 1-(p-Fluorobutyrophenonyl) piperazines. 3,658,821, 4-25-72, Cl. 260-268.
Fauran, Claude P.; Raynaud, Guy M.; Duzon, Colette A.; and Gouret, Claude J., to Delalande S.A. Substituted 4-propargylxmethyl-]33-butyrolactones. 3,663,572, 5-16-72, Cl. 260-343.6.
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Fauran, Claude P.; Gouret, Claude J.; Raynaud, Guy M.; and Douzon, Colette A., to S.A. Delalande. Novel 5-(N-substituted aminomethyl)-2-oxazolidionones and their process of preparation. 3,687,965, 8-29-72, Cl. 260-307.00c.
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Faurholdt, Bent. Incinerator for the combustion of waste products, particularly plastic materials. 3,670,667, 6-20-72, Cl. 110-8.00a.
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Faust, Ellsworth E., to Celanese Corporation. Emulsion copolymerization initiator. 3,689,432, 9-5-72, Cl. 252-428.000.
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Fauth, Otto, to Otto Bilz, Werkzeugfabrik. Quick-change chucks. 3,672,692, 6-27-72, Cl. 279-82.000.
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Fava, Ernesto. Hair washing device. 3,692,066, 9-19-72, Cl. 132-9.000.
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Favors, Hollice A. Broadband composite filter circuit. 3,671,889, 6-20-72, Cl. 333-76.000.
Favre, John A., to Phillips Petroleum Company. Total sample indicator for chromatography. 3,686,923, 8-29-72, Cl. 73-23.100.
Favre, Robert. Means for protecting electronic commutation motor from accidental overload. 3,644,808, 2-22-72, Cl. 318-138.
Favre, Robert. Electronically commutated motor including commutation means responsive to reactive voltage induced in armature windings. 3,662,237, 5-9-72, Cl. 318-254.
Favre, Robert. Signal generator for electronic commutation of a motor. 3,691,438, 9-12-72, Cl. 318-138.000.
Favreau, Marcel, to Vilas Industries Limited. Adjustable furniture leg. 3,701,506, 10-31-72, Cl. 248-188.500.
Faw, Frederick L.; Johnson, Ralph E.; Warren, Constance A.; and Glenn, Dwight W., to United States of America, Health, Education and Welfare. Standardized set of compensating filters for mantle-field radiation therapy. 3,678,233, 7-18-72, Cl. 250-86.000.
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Fawcett, John E.: *See—*
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Fawcett, Richard; Smith, Arthur William; and Westwood, David, to Imperial Chemical Industries Limited. Low pressure-drop catalytic reactor. 3,694,169, 9-26-72, Cl. 23-289.000.
Fawdrey, Cecil Arthur; Simms, John Robert; Kenworthy, Derek; Roxburgh, Albert; and Hobbs, David; deceased (by Hobbs, Jeanie Wright; administratrix), to Associated Electrical Industries Limited. Gas blast interrupters. 3,683,141, 8-8-72, Cl. 200-148.00b.
Fawick, Thomas L. Two-bulb, fluid-filled hand exercising device. 3,658,326, 4-25-72, Cl. 272-68.
Faxon, Robert C.; and McGovern, Robert T., to Texas Instruments, Incorporated. Method for making ceramic titanate elements and materials therefor. 3,637,531, 1-25-72, Cl. 252-520.
Faxon, Robert C., to Texas Instruments, Incorporated. Composite thermistor temperature sensor having step-function response. 3,673,538, 6-27-72, Cl. 338-25.
Fay, David W., administrator: *See—*
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Fay, Homer; Alford, Wilbur J.; and Dess, Howard M., to Union Carbide Corporation. Lithium niobate harmonic generator and method. 3,639,776, 2-1-72, Cl. 307-88.3.
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Fay, James P. Safety grenade. 3,636,878, 1-25-72, Cl. 102-64.
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Fayling, Richard E., to Minnesota Mining and Manufacturing Company. Magnetic electrical connector for a food preparation system. 3,654,853, 4-11-72, Cl. 99-359.
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Fazio, James A.; and Wesbey, William H., to General Electric Company. Dark current clamp for television camera with a circular field of view permitting maximum utilization of vidicon target. 3,674,931, 7-4-72, Cl. 178-7.1.
Fazio, Joseph. Safety plug for firearms. 3,678,609, 7-25-72, Cl. 42-1.00n.
Feagan, Robert L. Apparatus and method for conveying information. 3,646,690, 3-7-72, Cl. 35-16.
Feakes, Frank: *See—*
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Feakes, Frank; and Padawer, Gabriel E., to National Research Corporation. Method of providing substrates with stiff reinforcing material. 3,702,261, 11-7-72, Cl. 117-106.00r.
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Fearing, Ralph B., to Stauffer Chemical Company. Alkylarylpolyoxyalkylene alkyl or aryl phosphates. 3,666,843, 5-30-72, Cl. 260-951.
Fearing, Ralph B., to Stauffer Chemical Company. Pesticidal phosphoro and phosphono acetylhydrazides. 3,678,165, 7-18-72, Cl. 424-211.000.
Fearnley, Charles; and Jones, Thomas Ivor, to Geigy Chemical Corporation. Combined cleaning and anti-soiling compositions. 3,639,290, 2-1-72, Cl. 252-152.
Fearnow, Edgar C.; and Martin, William E., to Armstrong Cork Company. Method for forming a laminated floor covering. 3,658,617, 4-25-72, Cl. 156-235.
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Fearon, Joesph G., to Morrison-Knudsen Company, Inc. Rail handling system. 3,682,332, 8-8-72, Cl. 214-41.000.
Fearon, Joseph G., to Morrison-Knudsen, Company, Inc. Railway hopper car pivoted closure chute. 3,654,872, 4-11-72, Cl. 105-239.
Fearon, Joseph G.; and Battermann, George Monte Gilbert, to Morrison-Knudsen Company, Inc. Method and apparatus for laying railroad ties on a prepared road surface. 3,701,320, 10-31-72, Cl. 104-6.000.
Feather, Clark B. Longitudinally collapsible canopy for pickup trucks and analagous frames. 3,688,787, 9-5-72, Cl. 135-7.10a.
Feather, Landis E., to Westinghouse Electric Corporation. Method of making disk-type windings for electrical inductive apparatus. 3,683,495, 8-15-72, Cl. 29-605.000.
Feather, Peter; and Brugess, Colin Michael, to British Drug Houses Limited, The. 17α-(1',3' alkadiymyl)-17β-acyloxy(17β-aroyloxy) steroids. 3,691,212, 9-12-72, Cl. 260-397.400.
Featherston, Richard H., to Reynolds Metals Company. Precipitation of alumina hydrate. 3,649,184, 3-14-72, Cl. 23-143.
Featherstone, Arthur H. Internal combustion engine. 3,636,704, 1-25-72, Cl. 60-15.
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Fechtig, Bruno; Vischer, Ernst; Bickel, Hans; Bosshardt, Rolf; and Urech, Jakob, to Ciba-Geigy Corporation. Process for splitting the 7-N-acyl group from cephalosporin compounds. 3,697,515, 10-10-72, Cl. 260-243.00c.
Fecker, Josef, to Texpatent GmbH. Textile mesh and method and apparatus for its manufacture. 3,636,730, 1-25-72, Cl. 66-95.
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Graybill, Robert W.; Reiber, Stanley C.; Nace, Donald W.; and White, Ellis S., 3,667,747.
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Feder, Alvin, to Motorola, Inc. Paper roll support and tension device. 3,647,158, 3-7-72, Cl. 242-55.2.
Feder, Alvin, to Motorola, Inc. Printer drive with page record feed. 3,647,356, 3-7-72, Cl. 346-101.000.
Feder, Alvin, to Motorola, Inc. Key operated switch. 3,663,774, 5-16-72, Cl. 200-42.
Feder, Ernst; Deselaers, Kurt; and Czehovsky, Gunther, to Dynamit Nobel Aktiengesellschaft. Process for separating steam-volatile organic solvents from industrial process waste waters. 3,669,847, 6-13-72, Cl. 203-14.000.
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Federline, Richard G., 1/2 to Webb, Don Eugene. Alarm holder for fishing rods. 3,670,443, 6-20-72, Cl. 43-17.000.
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Fedi, Leto; Meunier, Jean; and Vertut, Jean, to Commissariat a l'Energie Atomique. Safety device for interlocking sealed enclosure. 3,682,208, 8-8-72, Cl. 141-384.000.
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Fedor, Robert J., to Gould Inc., mesne. Electric resistance heating element. 3,651,304, 3-21-72, Cl. 219-200.
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Fedorenko, Anatoly Stepanovich; Mescheryakov, Jury Alexeevich; Prytkov, Alexandr Alexandrovich; and Tyabirdin, Vladimir Vasilievich. Amalgam housing means for a fluorescent lamp. 3,688,148, 8-29-72, Cl. 313-109.000.
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Fegan, Lloyd V., Jr.; and Sloughfy, James L., to Bethlehem Steel Corporation. Method for producing highly-fluxed pellets containing oxides of iron from in-plant waste products. 3,684,478, 8-15-72, Cl. 75-3.000.
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Fehrer, Ernst. Apparatus for manufacturing webs from fiber material. 3,641,628, 2-15-72, Cl. 19-156.4.
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Feighner, George C.; Kerfoot, Oliver C.; Krehbiel, Delmar D.; and Nicks, Gene E., to Continental Oil Company. Hydrocarbon composition containing polyalkyl-substituted di-N-C10-C15-alkaryl hydrocarbons and process for preparing same. 3,661,780, 5-9-72, Cl. 52-59.000.
Feighner, George C.; and Nicks, Gene E., to Continental Oil Company. Disproportionation of long-chain monoalkyl aromatic compounds. 3,662,012, 5-9-72, Cl. 260-672.
Feight, Robert A.; Ferris, De Lacy F.; and Hunter, Frank B., to United States of America, Navy, mesne. Cantilevered breakaway fuel and oxidizer release. 3,638,669, 2-1-72, Cl. 137-68.
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Phillips, Delbert L.; and Feightner, Lewis Clark, 3,707,614.
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Feikema, Orville A. Anti-skid brake. 3,651,900, 3-28-72, Cl. 188-181.
Feild, George B., to Hercules Incorporated. Fibrillation by opposed beater bars. 3,693,850, 9-26-72, Cl. 225-3.000.
Feiler, William A.; and Shen, Chung Yu, to Monsanto Company. Solid nitrilotriacetate-metal complexes. 3,687,992, 8-29-72, Cl. 260-429.00r.
Fein, Harry. Resistive modulator. 3,679,975, 7-25-72, Cl. 324-118.000.
Fein, Marvin; Loprest, Frank; and Shaheen, Donald G., to Thiokol Chemical Corporation. Solid stabilized hydrazinium diperchlorate propellant. 3,698,969, 10-17-72, Cl. 149-19.000.
Fein, Marvin M.: *See*—
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Feinauer, Anton; Ruettiger, Wilhelm; Fikentscher, Rolf; and Pitteroff, Walter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Spray-dried agent for finishing textiles. 3,651,139, 3-21-72, Cl. 260-553.
Feinauer, Roland; Thier, Werner; and Schneider, Wolfgang, to Chemische Werke Huls Aktiengesellschaft. Process for the antistatic treatment of linear crystallizable polyesters and products thus treated. 3,679,468, 7-25-72, Cl. 117-138.80f.
Feinberg, Bernard, to United States of America, Agriculture. Preparation of a baked potato product. 3,689,282, 9-5-72, Cl. 99-100.00p.
Feinberg, Irving; Langdon, Jack L.; and Sitler, Carl L., to International Business Machines Corporation. Monolithic integrated structure including fabrication thereof. 3,697,318, 10-10-72, Cl. 117-212.000.
Feiner, Maria; Gubler, Michel; and Guillon, Joseph, to Monsanto Company. Flame retardant composition comprising an organic bromine compound, an organic phosphate and a lead salt. 3,677,942, 7-18-72, Cl. 252-8.100.
Feinleib, Julius, to Energy Conversion Devices, Inc. Information recording system employing amorphous materials. 3,636,526, 1-18-72, Cl. 340-173.
Feinleib, Julius, to Energy Conversion Devices, Inc. Information storage systems utilizing amorphous thin films. 3,665,425, 5-23-72, Cl. 340-173.000.
Feinleib, Julius; Klose, Peter H.; and Ovshinsky, Stanford R., to Energy Conversion Devices, Inc. Printing and copying employing materials with surface variations. 3,678,852, 7-25-72, Cl. 101-465.000.
Feinleib, Julius; and Shaw, Robert F., to Energy Conversion Devices, Inc. Optical mass memory employing amorphous thin films. 3,696,344, 10-3-72, Cl. 340-173.0lm.
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Feisel, Armin, to Fischer, Georg, Aktiengesellschaft. Quick-change device for clamping apparatus on turning machines. 3,703,113, 11-21-72, Cl. 82-30.000.
Feiss, Rene T., to Sulzer Brothers Limited. Method for mounting a pipe in a perforated plate. 3,698,067, 10-17-72, Cl. 29-470.100.
Feisst, Jutta: *See*—
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Feistel, Robert B.: *See*—
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Feit, Peter Werner, to Lovens Kemiske Fabrik Produktionsaktieselskab. Pharmaceutical composition for the treatment of oedematous conditions and hypertension. 3,634,583, 1-11-72, Cl. 424-22.
Feja, Josef Heinz; and Landskroner, Karl-Heinz, to Chemische Werke Huls Aktiengesellschaft. Apparatus for the dissolution of rubber. 3,642,451, 2-15-72, Cl. 23-267.
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Fekete, Frank; and McNally, John S. Unsaturated polyesters. 3,674,727, 7-4-72, Cl. 260-22.00d.
Fekete, Frank; Thrash, David J.; and Pulman, Leonard J., to Koppers Company, Inc. Polyester laminate and method for manufacture. 3,698,981, 10-17-72, Cl. 156-293.000.
Fekete, Lajos F.; and Shanbrom, Edward, to Baxter Laboratories, Inc. Fractionation of plasma using glycine and polyethylene glycol. 3,682,881, 8-8-72, Cl. 260-112.00b.
Fekete, Laszlo; Pataricza, Imre; Bodi, Dezso; Gyuricza, Jozsef; Miskei, Mihaly; and Orszag, Ferenc, to Metalimpex Acel es Fenkulkereskedelmi Vallalat. Industrial process for separation of nickel. 3,650,688, 3-21-72, Cl. 23-117.
Felbarg, Hector R. Illuminating laryngoscope with reflecting means. 3,643,654, 2-22-72, Cl. 128-11.
Feldberg, Leonard H.: *See*—
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Feldberg, Leonard H., to Burndy Corporation. Electrical junction assembly. 3,652,977, 3-28-72, Cl. 339-198.
Feldcamp, Edward George. Method of finishing an aperture. 3,699,725, 10-24-72, Cl. 51-317.000.
Felden, Alois, to Stahlgruber Otto Gruber & Company. Vehicle tire repair body. 3,648,750, 3-14-72, Cl. 152-370.
Felden, Alois, to Stahlgruber Otto Gruber & Co. Elastic sieve bottom. 3,664,503, 5-23-72, Cl. 209-397.
Felden, Alois, to Gruber, Stahlgrunger Otto, & Co. Process for adhesive bonding of polyvinyl chloride materials. 3,668,035, 6-6-72, Cl. 156-249.000.
Felden, Alois Peter, to Stahlgruber, Otto Gruber, & Company. Method of manufacturing rubber wear cover for rollers and method of applying same. 3,647,589, 3-7-72, Cl. 156-165.
Felder, Ernst; and Pitre, Davide, to Bracco Industria Chimica. Radiopaque compounds and methods of preparing the same. 3,644,409, 2-22-72, Cl. 260-247.2.
Felder, Ernst; and Pitre, Davide, to Bracco Industria Chimica, Societa per Azioni. X-ray contrast media. 3,654,272, 4-4-72, Cl. 260-247.2.
Felder, Johann, Jr. Removable extension plate. 3,695,189, 10-3-72, Cl. 108-65.000.
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Feldhoff, Heinrich: *See*—
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Feldkamper, Richard; and Niemeyer, Willy, to Windmoller & Holscher. Manufacture of bags which have a relatively wide base incorporating a filling valve. 3,657,975, 4-25-72, Cl. 93-8.
Feldkamper, Richard, to Windmoller & Holscher. Apparatus for manufacturing a multi-ply tube section consisting of at least two

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Feldkamper, Richard, to Windmoller & Holscher. Apparatus for the continuous formation of regular stacks of flat workpieces such as flattened bags or sacks. 3,683,758, 8-15-72, Cl. 93-93.0dp.
Feldman, Albert; and Feldman, Robert. Mobile dock for small craft. 3,636,908, 1-25-72, Cl. 114-230.
Feldman, Irwin M., to Ambac Industries, Incorporated. Magnetically-tuned gyroscope. 3,678,765, 7-25-72, Cl. 74-5.460.
Feldman, Jacob Richard: *See—*
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Feldman, Julian; Lerman, Frank; and Miller, Franklyn D., to National Distillers and Chemical Corporation. Process for purification of vinyl acetate by extractive distillation. 3,691,021, 9-12-72, Cl. 203-65.000.
Feldman, Julian; and Shaw, Robert J., to National Distillers and Chemical Corporation. Polyurethanes prepared from cyclic-alkyl diisocyanates. 3,691,134, 9-12-72, Cl. 260-77.5at.
Feldman, Lewis. Flexible sail rotor devices. 3,633,850, 1-11-72, Cl. 244-17.11.
Feldman, Lewis. Fan arrangement for pollution control. 3,643,581, 2-22-72, Cl. 28-58.
Feldman, Marshall H. Automobile ignition lock. 3,649,782, 3-14-72, Cl. 200-44.
Feldman, Marshall H. Elastic device for projecting cans. 3,662,730, 5-16-72, Cl. 124-17.
Feldman, Martin: *See—*
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Anderson, Lawrence Keith; and Feldman, Martin, 3,653,067.
Feldman, Martin; and Heiter, George Ludwig, to Bell Telephone Laboratories, Incorporated. Electromagnetically sensitive device and charge storage method of operation. 3,675,025, 7-4-72, Cl. 250-211.00j.
Feldman, Martin Louis: *See—*
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Feldman, Martin Louis; and Gordon, John Edson, to American Cyanamid Company. Recovery and purification of basic triarylmethane dyes. 3,679,713, 7-25-72, Cl. 260-388.000.
Feldman, Nicholas: *See—*
Ilnyckyj, Stephan; Cole, John Charles O.; Feldman, Nicholas; and Strickland, Barney R., 3,640,691.
Feldman, Nicholas; and Philippoff, Wladimir, to Esso Research and Engineering Company. Increasing low temperature flowability of middle distillate fuel. 3,660,058, 5-2-72, Cl. 44-80.
Feldman, Osias, to Burroughs Corporation. Registering means providing simultaneous storage and transfer of separate amounts. 3,665,492, 5-23-72, Cl. 235-60.
Feldman, Peter Blandford, to Monsanto Chemicals Limited. Apparatus for the production of containers. 3,692,450, 9-19-72, Cl. 425-183.000.
Feldman, Reuben J. Combination pliers and wrench tool. 3,664,214, 5-23-72, Cl. 81-130.
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Feldman, Samuel. Cuff link protector. 3,688,350, 9-5-72, Cl. 24-90.500.
Feldman, Samuel I., to Lummus Company, The. Deep water drilling rig. 3,702,105, 11-7-72, Cl. 114-.50d.
Feldman, Stephen; and Graves, Williard, 71% to Evirometrics, Inc. and 29% to Rubin, Richard. Demand metering system for electric energy. 3,683,343, 8-8-72, Cl. 340-178.000.
Feldman, Stephen L., 29% to Ruben, Richard. Pressure demand meter for fluid flow measurement. 3,653,261, 4-4-72, Cl. 73-233.
Feldman, Stephen Lew, to Envirometrics, Inc., mesne. Pressure demand meter for fluid flow measurement. 3,675,480, 7-11-72, Cl. 73-199.000.
Feldmanis, Carl J., to United States of America, Air Force. Cooled electronic equipment mounting plate. 3,651,865, 3-28-72, Cl. 165-80.
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Feldstein, Nathan, to RCA Corporation. Method for photodepositing smaller size image screen areas for cathode ray tube from larger size mask apertures. 3,661,581, 5-9-72, Cl. 96-36.1.
Feldstein, Nathan; and Lancsek, Thomas Stephen, to RCA Corporation. Method of electroless deposition of metals with improved sensitizer. 3,666,527, 5-30-72, Cl. 117-47.00a.
Feldstein, Nathan, to RCA Corporation. Method of making abrasion-resistant metal-coated glass photomasks. 3,669,770, 6-13-72, Cl. 156-3.000.
Feldstein, Nathan, to RCA Corporation. Method of preparing a substrate for depositing a metal on selected portions thereof. 3,672,925, 6-27-72, Cl. 117-5.500.
Feldstein, Nathan, to RCA Corporation. Method of producing a luminescent-screen structure including light-emitting and light absorbing areas. 3,681,110, 8-1-72, Cl. 117-33.5cm.
Feldstein, Nathan, to RCA Corporation. Electroless nickel plating method. 3,690,944, 9-12-72, Cl. 117-160.00r.
Feldstein, Nathan, to RCA Corporation. Method of metallizing an electrically insulating surface. 3,697,319, 10-10-72, Cl. 117-212.000.
Feldtkeller, Ernst, to Siemens Aktiengesellschaft. Arrangement for reading an electro-optical memory. 3,693,172, 9-19-72, Cl. 340-173.0ls.
Felger, Carl B., to Gillette Company, The. Inhibiting dental plaque. 3,671,626, 6-20-72, Cl. 424-49.
Felice, Frank T.; Fisher, Robert E.; and Jacobs, Louis J., to Combustion Engineering, Inc. Ladle lining refractory. 3,637,412, 1-25-72, Cl. 117-26.
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Felix, Webster, to Telsco Industries. Irrigating devices having a pressure actuated pop-up sprinkler head. 3,637,139, 1-25-72, Cl. 239-206.
Felker, Paul J., to Penetred Corporation. Art of forming tire treads with elongated traction-augmenting elements. 3,687,583, 8-29-72, Cl. 425-20.000.
Fell, Ferol S.: *See—*
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Feller, Fritz. Rotary piston internal combustion engines. 3,703,885, 11-28-72, Cl. 123-8.110.
Feller, Gilbert, to Metalem S.A. Method for fabrication of rings for a watch dial. 3,675,295, 7-11-72, Cl. 29-177.000.
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Feller, Otto: *See—*
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Fellers, John F.; Hinsch, James E.; and McLaughlin, Ernest O., to Ford Motor Company. Radiation-curable vinyl paint containing pendant unsaturation with intervening ether functionality. 3,641,210, 2-8-72, Cl. 260-885.
Fellers, John F.; Hinsch, James E.; and McLaughlin, Ernest O., to Ford Motor Company. Radiation curable vinyl paint containing pendant unsaturation with intervening ether functionality. 3,642,939, 2-15-72, Cl. 260-836.
Fellers, John F.; Labana, Santokh S.; and Newman, Seymour, to Ford Motor Company. Thermoset molding powders employing glycidyl methacrylate and aromatic amines. 3,652,476, 3-28-72, Cl. 260-29.1.
Fellers, John F.; Newman, Seymour; and Golovoy, Amos, to Ford Motor Company. Thermoset molding powders employing polycarboxyl functional prepolymer and diepoxide crosslinking agent. 3,652,723, 3-28-72, Cl. 260-836.
Fellers, John F.; Labana, Santokh S.; and Newman, Seymour X., to Ford Motor Company. Thermoset molding powders employing glycidyl methacrylate and diphenols. 3,661,828, 5-9-72, Cl. 260-29.1.

Fellgett, Peter Berners; and Whitfield, George Robert, to International Harvester Company of Great Britain Limited, mesne. Vehicle guidance systems. 3,669,207, 6-13-72, Cl. 180-98.000.

Fellin, Jack J.; and Fellin, Karin E. Automotive seat pad for use by childern. 3,707,008, 12-26-72, Cl. 5-345.000.

Fellin, Karin E.: *See—*
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Fellion, Yves Louis-Marie, to Laboratoires Toraude. Indole alkaloid derivatives. 3,702,325, 11-7-72, Cl. 260-240.0al.

Fellmann, Robert Paul; and Fettes, Robert Clarke, to Rohm & Haas Company. Acrylic elastomer impact modifier. 3,655,826, 4-11-72, Cl. 260-876.

Fellows, Charles T.; and Hermann, Stanley R., to National Cash Register Company, The. Coated transfer medium for producing scratch and smudge resistant marks. 3,639,166, 2-1-72, Cl. 117-234.

Fellows, Charles T.; Hermann, Stanley R.; and Hochwalt, Norman C., to National Cash Register Company, The. Transfer medium for producing scratch and smudge resistant marks. 3,689,316, 9-5-72, Cl. 117-234.000.

Fellrath, Jean; and Challandes, Claude, to Centre Electronique Horloger S.A. Synchronizable clock. 3,631,669, 1-4-72, Cl. 58-28.

Fellwock, Charles G.; and Tuley, Donald L., to Whirlpool Corporation. Reversible hinge for refrigerator. 3,675,271, 7-11-72, Cl. 16-170.000.

Fels, Werner; and Andree, Klaus, to Hell, Rudolf, Dr.-Ing. Sheet carrier mechanism for picture telegraphy apparatus. 3,649,004, 3-14-72, Cl. 271-51.

Felsenheld, Robert A.: *See—*
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Felstead, Edward, to Imperial Chemical Industries Limited. Spray-drying process. 3,677,321, 7-18-72, Cl. 159-48.000.

Felt, Adolph E.; and Maklary, Joseph R., to Smith, A. O., Corporation. Detecting missing or defective connectors. 3,665,742, 5-30-72, Cl. 72-4.

Felt, Maurice D., to Sacomo Sierra Inc. Seal ring. 3,653,672, 4-4-72, Cl. 277-205.

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Feltgen, Karl-Heinz; and Espanion, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Process and device for the manufacture of a non-woven matted web from synthetic yarn. 3,698,610, 10-17-72, Cl. 226-7.000.

Feltgen, Karlheinz: *See—*
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Feltman, Charles. Wind powered spinning toy. 3,680,252, 8-1-72, Cl. 46-53.000.

Feltman, Stanley, to REA International Corporation. Static inverter having automatic means for providing a highly regulated A.C. output despite changes in the input D.C. level. 3,691,449, 9-12-72, Cl. 321-27.0ms.

Felton, George F., Jr., to Sun Oil Company. Method and apparatus for evaluating thermal stability of quenching oils. 3,680,356, 8-1-72, Cl. 73-15.00r.

Felts, Louis: *See—*
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Fender, Clarence L.; and Rhodes, Harold B. Columbia Broadcasting System, Inc. Tone generator with vibratory bars. 3,644,656, 2-22-72, Cl. 84-1.04.

Fender, Clarence L., to Columbia Broadcasting System, Inc. Shoulder strap-operated pitch-changing means for spanish guitars. 3,686,993, 8-29-72, Cl. 84-312.000.

Fender, Manfred. Oscillating circuit converter. 3,683,263, 8-8-72, Cl. 321-45.00r.

Fendler, Lothar: *See—*
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Fendt, Alfons; and Maenicker, Eckart, to Siemens Aktiengesellschaft. Differential protective circuit. 3,633,071, 1-4-72, Cl. 317-26.

Fenerli, Ligor Gregory. Machine for processing spaghetti. 3,635,148, 1-18-72, Cl. 99-404.

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Fenn, Raymond W., Jr.: *See—*
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Fenne, Ivor, to C.A.V. Limited. Liquid fuel injection pumping apparatus. 3,663,123, 5-16-72, Cl. 417-284.000.

Fennell, John Richard; and Harvey, Robert J., to Meditron, Inc. Taste-modifying composition containing miraculin and method of preparation. 3,676,149, 7-11-72, Cl. 99-140.00r.

Fennell, Lewis Harvey. Automotive headlamp cleaning system. 3,704,481, 12-5-72, Cl. 15-250.010.

Fenner, David Fentom, to National Research Development Corporation. Apparatus for use in focussing images. 3,705,765, 12-12-72, Cl. 353-101.000.

Fenner, Gunther E., to General Electric Company. Display system utilizing light emitting devices. 3,696,389, 10-3-72, Cl. 340-324.00r.

Fenner, J. H., & Co.: *See—*
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Fenner, J. H., & Co. Limited: *See—*
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Fenner, James M., to National-Standard Company. Apparatus for handling shrinkable material. 3,679,190, 7-25-72, Cl. 266-3.00r.

Fenner, James M., to National-Standard Company. Method of handling shrinkable material. 3,697,262, 10-10-72, Cl. 75-214.000.

Fenner, John A.; and Welman, William L., to Plessey Company Limited, The. Electrical components. 3,651,567, 3-28-72, Cl. 29-625.

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Fenske, Ellsworth R.; and Sampson, Robert W., to Universal Oil Products Company. Determination and control of a composition characteristic while blending a multi-component combustible fluid. 3,672,840, 6-27-72, Cl. 23-230.0pc.

Fenster, Nathan; and Schiffman, Theodore H. Credit card wallet and method of making same. 3,659,640, 5-2-72, Cl. 150-35.

Fenstermaker, Ronald E.: *See—*
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Fenton, Donald M.: *See—*
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Fenton, Donald M., to Union Oil Company of California. Preparation of carboxylic acids. 3,637,833, 1-25-72, Cl. 260-533.

Fenton, Donald M., to Union Oil Company of California. Hydrocarboxylation reaction to form straight-chain anhydrides. 3,641,071, 2-8-72, Cl. 260-398.

Fenton, Donald M., to Union Oil Company of California. Carbonylation of olefins. 3,641,074, 2-8-72, Cl. 260-410.9.

Fenton, Donald M., to Union Oil Company of California. Preparation of methacrylic acid. 3,641,137, 2-8-72, Cl. 260-526.

Fenton, Donald M. Preparation of cyclohexane-1,4-diones. 3,642,905, 2-15-72, Cl. 260-590.

Fenton, Donald M., to Union Oil Company of California. Preparation of unsaturated esters. 3,652,608, 3-28-72, Cl. 260-486.

Fenton, Donald M., to Union Oil Company of California. Preparation of esters of unsaturated carboxylic acids. 3,652,655, 3-28-72, Cl. 260-486.

Fenton, Donald M., to Union Oil Company of California. Reaction of a carboxylic acid anhydride with an ethylenically unsaturated hydrocarbon. 3,654,322, 4-4-72, Cl. 260-398.

Fenton, Donald M., to Union Oil Company of California. Preparation of dihydrocarbyl carbonates from monalcohols and frihalomethanes. 3,654,337, 4-4-72, Cl. 260-463.

Fenton, Donald M., to Union Oil Company of California. Preparation of methacrylic acid. 3,655,745, 4-11-72, Cl. 260-526.

Fenton, Donald M., to Union Oil Company of California. Preparation of N-N'-diaryl-1,4-diaminonaphthalene compound. 3,655,763, 4-11-72, Cl. 260-576.
Fenton, Donald M., to Union Oil Company of California. Reaction of an aldehyde with a carboxylic acid. 3,660,441, 5-2-72, Cl. 260-413.
Fenton, Donald M., to Union Oil Company of California. Hydrocarboxylation process utilizing an iron salt cocatalyst. 3,661,949, 5-9-72, Cl. 260-413.
Fenton, Donald M., to Union Oil Company of California. Cyclic hydrocarboxylation process for production of straight-chain acids, anhydrides or esters. 3,668,249, 6-6-72, Cl. 260-546.
Fenton, Donald M., to Union Oil Company of California. Preparation of substituted pyridines. 3,679,688, 7-25-72, Cl. 260-290.00p.
Fenton, Donald M., to Union Oil Company of California. Preparation of substituted pyridines. 3,679,689, 7-25-72, Cl. 260-290.00h.
Fenton, Donald M. Preparation of allyl alcohol from butyrolactone. 3,692,849, 9-19-72, Cl. 260-638.00r.
Fenton, Donald M. Nitro or nitroso aromatic composition. 3,696,046, 10-3-72, Cl. 252-186.000.
Fenton, Donald M., to Union Oil Company of California. Preparation of a ketone and an aldehyde by carbonylation of an olefin in the presence of a secondary alcohol. 3,697,600, 10-10-72, Cl. 260-593.00r.
Fenton, Donald M., to Union Oil Company of California. Preparation of aromatic acids. 3,700,729, 10-24-72, Cl. 260-515.00r.
Fenton, Donald M., to Union Oil Company of California. Preparation of alkyl halides, carboxylates and alcohols. 3,702,856, 11-14-72, Cl. 260-410.90r.
Fenton, Francis Michael: *See—*
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Fenton, Francis Michael, to Bell Telephone Laboratories, Incorporated. Key telephone system link switching network. 3,668,289, 6-6-72, Cl. 179-1.0cn.
Fenton, Francis Michael, to Bell Telephone Laboratories, Incorporated. Busy and talking link allotter circuit for electronic key telephone system. 3,691,310, 9-12-72, Cl. 179-18.0ad.
Fenton, John W., II: *See—*
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Fenton, Richard J.: *See—*
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Fenton, Roger Wakfield, to Marconi Company Limited, The. Electronic character generating. 3,697,976, 10-10-72, Cl. 340-324.00a.
Fenwal, Inc.: *See—*
Poitras, Edward J., 3,684,021.
Fenwal Incorporated: *See—*
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Fenwick, Jay G., to Streater Industries, Inc. Hangrod assembly. 3,664,511, 5-23-72, Cl. 211-105.100.
Fenwick, Jay G., to Streater Industries, Inc., mesne. Sign mounting socket. 3,664,617, 5-23-72, Cl. 248-38.000.
Fenwick, Jay G., to Streater Industries, Inc. Display stand. 3,698,567, 10-17-72, Cl. 211-183.000.
Fenwick, Jay G., to Streater Industries, Inc. Shelf and bracket assembly. 3,701,325, 10-31-72, Cl. 108-1.000.
Fenyes, Joseph G. E. 1-(Polyhaloalkylthio) indazoles. 3,647,818, 3-7-72, Cl. 260-310.
Fer, Pierre: *See—*
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Ferara, James T., to Harris-Intertype Corporation. Noiseless paperboard guide. 3,648,913, 3-14-72, Cl. 226-189.
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Ferber, Martin Emile; and Wintenberger, Michel Georges, to Compagnie Pechiney. Process for purification of metals. 3,671,229, 6-20-72, Cl. 75-211.000.
Ferber, Robert R.; and Gilmour, George A., to Westinghouse Electric Corporation. Integral multi-sensor radiation detector. 3,666,950, 5-30-72, Cl. 250-83.1.
Ferch, Alois Wilhelm, to Fengler, Werner H. Method for producing a plastic material having improved frictional and sliding properties. 3,646,182, 2-29-72, Cl. 264-115.
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Ferchland, Harold W., to General Motors Corporation. Abrasive cutting tool. 3,641,718, 2-15-72, Cl. 51-356.
Ferda, Josef; and Kotacka, Josef, to Elitex, Zavody textilniho strojirenstvi generalni reditelslvi. Stop motion control device for knitting machines. 3,650,128, 3-21-72, Cl. 6-163.
Ferdelman, Donald C., to General Motors Corporation. Control for room air conditioner with electric heat. 3,666,002, 5-30-72, Cl. 165-29.000.
Ferdinand, Irwin J.; and Kulbersh, Irwin R., to Hirsh Company, The. Steel shelving closure. 3,639,026, 2-1-72, Cl. 312-295.
Ferdinand, Irwin J.; and Kubersh, Irwin R., to Hirsh Company, The. Modular wall shelving. 3,645,486, 2-29-72, Cl. 248-243.
Ferdinand, Irwin J.; and Kulbersh, Irwin R., to Hirsh Company, The. Twist cam lock for knockdown shelving. 3,654,879, 4-11-72, Cl. 108-110.
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Fereday, Stanley; and Smelt, William Harry, to Davy and United Engineering Company Limited. Rolling mills. 3,667,271, 6-6-72, Cl. 72-238.000.
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Ference, Richard N.; Grega, Albert; Miller, James A.; Stewart, Ray T.; and Stricker, David M., to Aluminum Company of America. Container inspection apparatus. 3,700,101, 10-24-72, Cl. 209-80.000.
Fergason, James L.; and Goldberg, Newton N., to Westinghouse Electric Corporation. Method and apparatus for detecting X-ray radiation using a cholesteric detector. 3,657,538, 4-18-72, Cl. 250-83.
Fergason, James L.; and Goldberg, Newton N., to Westinghouse Electric Corporation. Method of changing color play range of liquid crystal materials. 3,663,390, 5-16-72, Cl. 204-158.
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Ferguson, Colin Campbell; and Bolton, William Robert Fossey. Automatic brake-safety control. 3,706,352, 12-19-72, Cl. 180-103.000.
Ferguson, Don E.: *See—*
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Ferguson, Donald C.; Lynch, Frederick W.; and Simons, Gerald F., to Sperry Rand Corporation. Automatic control system with pseudo position feedback and monitor. 3,643,146, 2-15-72, Cl. 318-565.
Ferguson, Eric Tapley. Apparatus for the relative positioning of two objects by means of a beam of radiation. 3,689,162, 9-5-72, Cl. 356-169.000.
Ferguson, Harry R., to United States of America, Army. Composite polysulfide propellant cured with a monofunctional mercaptan. 3,706,610, 12-19-72, Cl. 149-19.000.
Ferguson, Harry, Research Limited: *See—*
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Ferguson, Herman V., to Fire Control Engineering Company. Fire extinguisher spinner nozzle. 3,682,388, 8-8-72, Cl. 239-222.170.
Ferguson, Hugo S., to Reel Vortex, Inc. Lawn mower suspension. 3,638,405, 2-1-72, Cl. 56-10.4.
Ferguson, Hugo S., to Reel Vortex, Inc. Detachable sharpener for a cross-flow mower. 3,659,385, 5-2-72, Cl. 51-250.
Ferguson, Hugo S., to Reel Vortex, Inc. Cross-flow mowing machine. 3,673,773, 7-4-72, Cl. 56-13.300.
Ferguson, James A.: *See—*
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Ferguson, Jean. Teaching aid for retarded children. 3,668,789, 6-13-72, Cl. 35-9.00e.
Ferguson, Jeremiah M., to Riley Stoker Corporation. Control of fluid flow through centrifugal pumps. 3,640,251, 2-8-72, Cl. 122-406.
Ferguson, Otis B., to Recovery Systems Research, Inc. Rereefing parachute and aerial recovery system. 3,655,151, 4-11-72, Cl. 244-142.
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Ferguson Transformers Pty., Limited: *See—*
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Ferguson, William B. Fluid line coupling. 3,689,110, 9-5-72, Cl. 285-15.000.
Ferguson, William G. Massage apparatus. 3,672,357, 6-27-72, Cl. 128-49.000.
Ferguson, William K. Slope and grade meter. 3,678,885, 7-25-72, Cl. 116-124.000.

Fergusson, Alexander H. B.: *See—*
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Fergusson, Gordon J.; and Wahrhaftig, Austin L., to Scientific Research Instruments Corporation. Catheter for use in detecting dissolved gas in fluids such as blood. 3,658,053, 4-25-72, Cl. 128-2.

Fergusson, Ian L., to Thomas & Betts Corporation. Matched impedance connector. 3,634,806, 1-11-72, Cl. 339-14.

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Caporali, Giorgio; Ferlazzo, Natale; and Giordano, Nicola, 3,691,224.

Ferlise, Louis; and Duhamel, Ronald E., to Panacon Corporation. Range hood unit with fire safeguard fan control system. 3,690,245, 9-12-72, Cl. 98-115.00k.

Ferm, Carl W.; and Sechler, Fred R. Sewage treatment system. 3,677,409, 7-18-72, Cl. 210-195.000.

Ferm, Richard L., to Chevron Research Company. Process for reducing water permeability of porous soils. 3,650,113, 3-21-72, Cl. 61-36.

Ferm, Richard L., to Chevron Research Company. Treatment of oil spills. 3,703,464, 11-21-72, Cl. 210-40.000.

Fermani, Luigi: *See—*
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Fermani, Marcello: *See—*
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Ferment, George R., to Celanese Corporation. Induction furnace having improved susceptor for use in the continuous production of carbonaceous fibrous materials. 3,656,910, 4-18-72, Cl. 23-259.5.

Fermi, Enzo; and Francesco, San Donaio Milanese, to Snam Progetti S.p.A. Apparatus for producing composite fibers. 3,669,591, 6-13-72, Cl. 425-131.

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Fernald, Herbert B.; Gall, William; and Hay, Russell G., to Gulf Research & Development Company. Method for reduction of polymer formation in a process for converting ethylene to alpha olefins. 3,641,191, 2-8-72, Cl. 260-683.15.

Fernald, Herbert B.; Gall, William; Gwynn, Bernard H.; and Ward, John V., to Gulf Research & Development Company. Conversion of ethylene to alpha olefins in the presence of a diisobutylene solvent. 3,655,809, 4-11-72, Cl. 260-683.15.

Fernald, Herbert B.; Gall, William; Hay, Russell G.; and Kresge, Alfred N., to Gulf Research & Development Company. Process for converting ethylene to normal alpha olefins. 3,702,345, 11-7-72, Cl. 260-683.15d.

Fernandes, John Henry, to Combustion Engineering, Inc. Downdraft cupola incorporating means to preheat the charge. 3,702,242, 11-7-72, Cl. 75-43.000.

Fernandes, Joseph F.; and Coolidge, Anson S., to United Aircraft Products, Inc. Phase separator. 3,687,176, 8-29-72, Cl. 141-59.000.

Fernandez, Alberto Antonio, to Biochemical Procedures, Inc. Serum thyroxine anion exchange resin. 3,702,821, 11-14-72, Cl. 210-37.

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Fernandez, J. De Jesus. Door lock. 3,670,540, 6-20-72, Cl. 70-421.000.

Fernandez, Jaime B.; and Ayers, James E., to Dow Chemical Company, The. Coreacted salts of polychlorocarboxylic acids. 3,671,652, 6-20-72, Cl. 260-539.

Fernandez, Jose Dejesus. Denture device with a suction diaphragm. 3,644,997, 2-29-72, Cl. 32-3.

Fernandez, Jose J. Vacuum spectacle bridge. 3,701,592, 10-31-72, Cl. 351-130.000.

Fernandez, Miguel A., to Phillips Fibers Corporation. Apparatus for melt spinning of synthetic filaments. 3,659,980, 5-2-72, Cl. 425-72.

Fernandez, Raul O.; Cannito, Vincent F.; and Olsen, Oscar, to Schering Corporation. Laminated tablets. 3,696,188, 10-3-72, Cl. 424-16.000.

Fernandez-Moran Villalobos, Humberto. Apparatus using ultra sharp diamond edge for ultra thin sectioning. 3,646,841, 3-7-72, Cl. 83-171.

Fernandez-Sein, Rafael, to Westinghouse Electric Corporation. Phase shifter for ultrahigh frequencies. 3,663,836, 5-16-72, Cl. 307-262.

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Fernholz, Hans; and Neu, Hermann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of mixed anhydrides containing alkali chloride, of sorbic acid with palmitic or stearic acid and their use as preservaties for bread and pastry. 3,639,586, 2-1-72, Cl. 424-153.

Fernholz, Hans; and Jacobsen, Gunter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of vinyl acetate. 3,641,113, 2-8-72, Cl. 260-497.

Fernholz, Hans; and Wendt, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of methyl or ethyl chloride from methyl or ethyl acetate. 3,657,365, 4-18-72, Cl. 260-652.

Fernholz, Hans; Schmidt, Hans-Joachim; and Wunder, Friedrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of allyl esters of carboxylic acids. 3,670,014, 6-13-72, Cl. 260-497.00a.

Fernkopf, Forrest D.; and Wehmeier, Gilbert E. Film strip cartridge. 3,697,159, 10-10-72, Cl. 352-128.000.

Fernlund, Lars Martin Ingemar; and Kellstrom, Erik Magnus, to SKF Industrial Trading and Development Company N.V. Arrangement in spiral groove bearings. 3,663,074, 5-16-72, Cl. 308-9.

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Fernsteuergerate Kurt Oelsch KG: *See—*
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Fernsteuergerate Zacharia-Oelsch-Meier: *See—*
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Fernstrom, Gustaf Harry, to Atlas Copco Aktiebolag. Feed to driving tool having band held screws. 3,698,599, 10-17-72, Cl. 221-25.000.

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Feroy, Arne. Controllable pitch propellers. 3,676,016, 7-11-72, Cl. 416-157.000.

Ferplas Industries Limited: *See—*
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Ferrand, Andre; and Bonnefont, Michel, to Regie Nationale des Usines Renault. Constant-current heating devices for fixed window seals. 3,688,078, 8-29-72, Cl. 219-482.000.

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Ferrara, Achille K. Centrifugal dryers. 3,688,906, 9-5-72, Cl. 210-152.000.
Ferrara, Achille K. Vibratory finishing machine. 3,693,298, 9-26-72, Cl. 51-163.000.
Ferrara, Italo; and Castellani, Italo, to Sincat-Societa Industriale Catanese S.p.A. Catalytic process for the purification of gases and catalytic compositions suitable therefor. 3,661,509, 5-9-72, Cl. 23-25.
Ferrara, Peter B., to United States of America, Army. Quiet listen/talk adaptors for handsets or other typical phones. 3,666,898, 5-30-72, Cl. 179-180.
Ferrara, Peter B., to United States of America, Army. Fiberoptic clearance light system. 3,701,498, 10-31-72, Cl. 244-17.110.
Ferrara, Peter J. Acid modification of flour and starch with HCL and HF. 3,692,581, 9-19-72, Cl. 127-38.000.
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Ferrari, Andres, to Damon Corporation. Automated fluids analyzer having selectively interrupted flow. 3,690,833, 9-12-72, Cl. 23-230.00r.
Ferrari, Edward A., to Rankine, David P. and Rankine, Robert L., mesne. Image transfer printing machine. 3,633,505, 1-11-72, Cl. 101-269.
Ferrari, Giuseppe, to S.p.A. Antonio Ferrari & Figli. Metering arrangement for polyurethane article producing machines. 3,664,551, 5-23-72, Cl. 222-134.
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Ferrari, Harry M., to Westinghouse Electric Corporation. Internally pressurized fuel element. 3,677,894, 7-18-72, Cl. 176-68.000.
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Ferrarini, Lauro. Process for cooking salted meats. 3,634,096, 1-11-72, Cl. 99-107.
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Ferraro, Charles F., to FMC Corporation. Thixotropic agents for liquid resin systems. 3,632,545, 1-4-72, Cl. 260-30.6.
Ferraro, Joseph Peter: *See—*
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Ferree, Carman M.; and Miller, Douglas F., to Continental Oil Company. Method and apparatus for determining near-surface corrections from seismic data. 3,681,749, 8-1-72, Cl. 340-15.500.
Ferrell, Jared F. Surface inversion protection method and apparatus. 3,693,248, 9-26-72, Cl. 29-570.000.
Ferrell, John O., to Tights, Inc. Method for fabricating panty hose. 3,675,247, 7-11-72, Cl. 2-224.00r.
Ferrentino, Antonio, to Industrie Pirelli S.p.A. Compensating pressure tank for oil-filled power cables. 3,695,297, 10-3-72, Cl. 138-30.000.
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Ferri, John L.; and Mathers, James E., to Sylvania Electric Products, Inc. Rare earth oxide phosphor having a controlled decay time. 3,639,932, 2-8-72, Cl. 252-301.4.
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Ferrill, Homer E., to Dresser Industries, Inc. High pressure sealing means. 3,690,682, 9-12-72, Cl. 277-102.000.
Ferris, Andrew Paul, to English Clays Lovering Pochin & Company Limited. Pigment. 3,661,610, 5-9-72, Cl. 106-306.000.
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Ferris, Ford, 10% to Bourne, David and 10% to Moore, Gail C. Rock crushing machine. 3,638,870, 2-1-72, Cl. 241-140.
Ferris, Frank Donald. Dispensing for medicaments. 3,698,390, 10-17-72, Cl. 128-222.000.
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Ferris, James E., to Eastman Kodak Company. Dispensing device for pocketed envelopes. 3,705,664, 12-12-72, Cl. 221-47.000.
Ferris, James P., to Salk Institute for Biological Studies, The. Aminomalononitrile and method of preparation thereof. 3,670,007, 6-13-72, Cl. 260-465.5.
Ferris, Ray L.; and Spence, John H., to Pullman Incorporated. Kingpin lock and indicator for fifth wheel plate. 3,647,248, 3-7-72, Cl. 287-20.5.
Ferris, Ray L.; and Marulic, Walter J., to Pullman Incorporated. Snubbing arrangement for collapsible trailer hitch. 3,653,621, 4-4-72, Cl. 248-119.
Ferris, Robert G.; deceased, to Starline, Inc. Sliding door track structure. 3,636,588, 1-25-72, Cl. 16-94.
Ferris, Robert G.; and Ferris, Howard J., to Starline, Inc. Method of erecting storage structures. 3,665,671, 5-30-72, Cl. 52-747.000.
Ferris, William E., to Consolidated Foods Corporation. Vacuum cleaner nozzle. 3,659,313, 5-2-72, Cl. 15-402.000.
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Ferstenberg, Charles, to Tenneco Chemicals, Inc. Apparatus for regulating the upper surface contour of expanded cellular products. 3,672,348, 6-27-72, Cl. 425-364.000.
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Fertig, Joseph; and Lederer, Seymour J., to Merck & Co., Inc. Production of polyurethanes employing organopolymercurial catalysts. 3,642,044, 2-15-72, Cl. 260-77.5.
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Fertig, William J. Auxiliary movement means for hand trucks. 3,666,285, 5-30-72, Cl. 280-47.12.
Ferton, Jean-Yves; Hennebert, Jacques; and Strippoli, Francois, to Merlin Gerin Societe Anonyme. Polyphase circuit interrupter of the fluid blast puffer type. 3,641,295, 2-8-72, Cl. 200-148.
Feser, Emmett John. Trailer snow sled. 3,653,677, 4-4-72, Cl. 280-8.
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Fessmann, Gerhard. Process for the production of a smoking fluid for smoking foodstuffs. 3,634,108, 1-11-72, Cl. 99-229.
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Fest, Christa; and Hermann, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Methods of controlling short-tailed mice. 3,657,454, 4-18-72, Cl. 424-301.
Fest, Christa; Hammann, Ingeborg; and Behrenz, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. 0-alkyl-0-pyrazolyl-phosphoric, phosphonic, thionophosphoric and thionophosphonic acid esters. 3,700,686, 10-24-72, Cl. 260-310.00r.
Fester, Walter; Hanschke, Ernst; and Jakob, Franz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Fiber-forming polyamides having an increased content of amino groups. 3,644,299, 2-22-72, Cl. 260-78.
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Festner, Theodor; Litwin, Theodore J.; and Preuss, Hans W., to Festner Consulting Associates, mesne. Machine for producing magnetic belt records. 3,702,796, 11-14-72, Cl. 156-512.000.
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Feterl, Leon G. Machine for continuously removing over-sized undesirable material from crop material mixtures. 3,682,303, 8-8-72, Cl. 209-243.000.
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Fettinger, John G.; and Manizza, Guelfo A., to Continental Can Company, Inc. Combination package. 3,684,156, 8-15-72, Cl. 229-14.00b.
Fettweis, Alfred Leo Maria, to International Standard Electric Corporation. Resonant transfer circuits. 3,641,271, 2-8-72, Cl. 179-15.
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Feuer, Michael M.; and Kotler, Richard G., to Blow-Knox Foundry & Mill Machinery, Inc. Rolling mill. 3,679,150, 7-25-72, Cl. 242-78.100.
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Feuersanger, Alfred E.; and Harris, Lawrence M., to United States of America, Army, mesne. Photolithographic etching method for nickel oxide. 3,677,847, 7-18-72, Cl. 156-8.000.
Feuersanger, Alfred E.; and Wassermann, Moe S., to GTE Laboratories Incorporated. Solid state device having dielectric and semiconductor films sandwiched between electrodes. 3,699,409, 10-17-72, Cl. 317-238.000.
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Ffowces-Williams, John Eirwyn; Hawkins, Roy; Dawson, Hylton; and Smith, William, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the. Noise suppressor for jet engines. 3,706,33, 12-19-72, Cl. 181-33.0hc.
Fiala, Edward J., to Continental Can Company, Inc. Automatic rotary electrodeposition apparatus. 3,647,675, 3-7-72, Cl. 204-300.
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Fiala, Ernst, to Wolf-Dieter Klink. Actuating means for inflating a vehicular crash-pad. 3,704,032, 11-28-72, Cl. 280-150.0ab.
Fiala, Roger William. Irrigation system. 3,648,465, 3-14-72, Cl. 61-12.
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Fick, Herbert, to Kalle Aktiengesellschaft. Apparatus for the after-treatment of exposed sheet material. 3,685,425, 8-22-72, Cl. 95-89.00r.
Fickenscher, William E.; and Harris, James E. Deep field optical label reader including means for certifying the validity of a label reading. 3,676,645, 7-11-72, Cl. 235-61.11e.
Fickenscher, William E., to Bendix Corporation, The. Automatic baggage handling system. 3,679,874, 7-25-72, Cl. 235-61.70r.
Fickenwirth, Frederick I.; and Van Wyk, Jan W., to United States of America, Federal Aviation Administration. Flexible oscillatory motion bearing seal. 3,700,297, 10-24-72, Cl. 308-187.200.
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Fickes, Robert E.: *See—*

Pindell, Stuart M., Jr.; Johnson, Donald J.; Fickes, Robert E.; Perry, Malcolm R.; and Radcliffe, Wayne K., 3,635,011.

Ficon, Joseph; and Clemente, Joseph, to Thiokol Chemical Corporation. Fluid injectors. 3,665,710, 5-30-72, Cl. 60-258.000.

Fiddler, Theodore E.: *See—*
Fiddler, Theodore E.; and Adams, Arnold G. (said Adams assor. to said), 3,637,961.
Fiddler, Theodore E.; and Adams, Arnold G. (said Adams assor. to said), 3,637,962.

Fiddler, Theodore E.; and Adams, Arnold G., said Adams assor. to said Fiddler, Theodore E. Control device for actuating a switch and directing a fluid pressure force. 3,637,961, 1-25-72, Cl. 200-61.86.

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Fidei, Frank P., to Westinghouse Electric Corporation. Cooling system for dynamoelectric machines. 3,634,705, 1-11-72, Cl. 310-57.

Fidelity Bank, The: *See—*
Scott, Howard L., 3,660,634.

Fiderer, Leo. Process for digitizing electric circuit patterns. 3,692,237, 9-19-72, Cl. 234-2.000.

Fidi, Werner; and Srb, Franz, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Electro-mechanical apparatus for producing artificial reverberation. 3,649,933, 3-14-72, Cl. 333-30.

Fidi, Werner; and Weingartner, Bernhard A., to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Helical spring for producing artificial reverberation. 3,662,292, 5-9-72, Cl. 333-29.

Fidi, Werner, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Helical spring for producing artificial reverberation. 3,697,059, 10-10-72, Cl. 267-161.000.

Fidos, Henryk: *See—*
Schreiner, Horst; and Fidos, Henryk, 3,642,523.
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Fidrych, Alfred W., to Hubbell, Harvey, Incorporated. Open mesh woven wire tube. 3,638,987, 2-1-72, Cl. 294-86.

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Fiebelmann, Peter; and Neu, Helmut, to European Atomic Energy Community (Euratom). Nuclear reactor with heat pipes for heat extraction. 3,668,070, 6-6-72, Cl. 116-40.

Fiedler, Alfred; and Pepperhoff, Werner, to Mannesmann Aktiengesellschaft. Method for reducing lossiness of sheet metal. 3,647,575, 3-7-72, Cl. 148-111.

Fiedler, Gustav, to Kaick, A.van 'AvK'-Generatoren-u. Motoren-Werke oHG. Brushless direct-current welding generator. 3,649,903, 3-14-72, Cl. 322-27.

Fiedler, Horst; and Fricker, Ludwig, to Daimler-Benz Aktiengesellschaft. Safety installation for the venting and pressure release of closed containers. 3,695,376, 10-3-72, Cl. 180-54.00r.

Fiedler, Melvin L.; and Summers, Joe N., Jr. Volume displacement seed planter, matrix, and method of planting seed. 3,648,631, 3-14-72, Cl. 111-6.

Fiegel, Harry J., Jr.; and Thatcher, Russell S., to Kelso Marine, Inc. Shipbuilding and launching system, methods and apparatus. 3,650,115, 3-21-72, Cl. 61-67.

Fiegel, Harry J., Jr.; Thatcher, Russell S.; and Linam, Richard L., to Kelso Marine, Inc. Panel fitting and welding machine. 3,650,457, 3-21-72, Cl. 228-44.

Fiehler, Raymond H.; Dickman, John J.; and Diamant, Max, to Missouri Research Laboratories, Inc. Card feeder for instructional devices. 3,645,012, 2-29-72, Cl. 35-9.

Field, Albert. Rotary abrasive tool. 3,653,856, 4-4-72, Cl. 51-334.

Field, Albert. Abrading implement. 3,653,857, 4-4-72, Cl. 51-358.

Field, Albert. Abrading implement. 3,653,858, 4-4-72, Cl. 51-378.

Field, Anthony Gerard; deceased (by Field, Denis Cyril; and Field, Madeleine Helen; administrators), to Abrasive Development Limited. Abrading machines. 3,640,023, 2-8-72, Cl. 51-8.

Field, Arthur J.: *See—*
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Field, Arthur K.: *See—*
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Field, Denis Cyril: *See—*
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Field, Donald G., to Holland-Rantos Company, Inc. Method for forming liquid saturated towelette packets. 3,645,198, 2-29-72, Cl. 100-35.

Field Donald G., to Holland-Rantos Company, Inc. processing apparatus for liquid saturated towel packets. 3,702,584, 11-14-72, Cl. 100-151.000.

Field, Edwin C.; Kulicke, Frederick W., Jr.; and Masso, Richard W., to Kulicke and Soffa Industries, Inc. Method and apparatus for tailless wire bonding. 3,643,321, 2-22-72, Cl. 29-470.1.

Field, Frank H. Spring cushioning device for clustered cylinder lifts. 3,633,466, 1-11-72, Cl. 92-85.

Field, Frank P. Shelf divider structure with loop and collar arrangement. 3,703,964, 11-28-72, Cl. 211-184.000.

Field, George Francis; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Iodination of 2,3-dihydro-1,4-benzodiazepines. 3,651,047, 3-21-72, Cl. 260-239.

Field, George Francis; Sternbach, Leo Henryk; and Zally, William Joseph, to Hoffmann-La Roche Inc. 1,4-Benzodiazepin-5-ones and methods for the preparation thereof. 3,678,038, 7-18-72, Cl. 260-239.30d.

Field, George Francis; Sternbach, Leo H.; and Zally, William Joseph, to Hoffmann-La Roche Inc. Dehydrobiotin synthesis. 3,687,967, 8-29-72, Cl. 260-309.700.

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Field, Gerald A., to Monsanto Company. Rotatable safety closure. 3,633,779, 1-11-72, Cl. 215-9.

Field, Greg A., to S and R Associates, Inc. Racing rules correlator. 3,707,051, 12-26-72, Cl. 40-70.000.

Field, Harold S.; and Harper, James C., to Geophysical Research Corporation. Method and apparatus for measuring rate of bottom hole pressure change. 3,633,414, 1-11-72, Cl. 73-152.

Field, Leroy J.: *See—*
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Field, Lester M.; Walker, Richard A.; and McKee, William E., to Hughes Aircraft Company. Hydrophilic-hydrophobic photon sensitive medium. 3,640,712, 2-8-72, Cl. 96-27.

Field, Madeleine Helen: *See—*
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Field, Michael Frank: *See—*
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Field, Nathan D.: *See—*
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Freyermuth, Harlan B.; and Field, Nathan D., 3,679,649.

Field, Nathan D.; Randall, David I.; and Fitzpatrick, Jimmie D., to GAF Corporation. 2-Pyrrolidonyl polyacrolein. 3,637,598, 1-25-72, Cl. 260-72.

Field, Nathan D.; Randall, David I.; and Fitzpatrick, Jimmie D., to GAF Corporation. 2-Pyrrolidonyl polyacrolein bisulfite. 3,640,934, 2-8-72, Cl. 260-29.4.

Field, Nathan D.; and Freyermuth, Harlan B., to GAF Corporation. Photosensitive propargyl polymer derivatives. 3,657,197, 4-18-72, Cl. 260-78.5.

Field, Nathan D.; Kiss, Kornel D.; Lorenz, Donald H.; and Smolin, Edwin M., to GAF Corporation. Polymer composition containing graft copolymer processing aid. 3,658,943, 4-25-72, Cl. 260-876.

Field, Nathan D.; and Williams, Earl P., to GAF Corporation. Novel interpolymers useful as thickening agents. 3,684,776, 8-15-72, Cl. 260-78.0st.

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Field, Nathan D.; and Williams, Earl P., to GAF Corporation. Process for preparing a crosslinked porous polyvinyl-pyrrolidone granule. 3,689,439, 9-5-72, Cl. 260-2.50n.

Field, Owen L. Method for filling orders of customers. 3,682,340, 8-8-72, Cl. 214-152.000.

Field, Patricia: *See—*
Derujinsky, Ruth; and Field, Patricia, 3,646,896.

Field Queen Incorporated: *See—*
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Field, Richard H., to Lasermation, Inc., mesne. Adjustable mirror assembly. 3,642,353, 2-15-72, Cl. 350-310.

Field, Stanley: *See—*
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Field, Thomas R., to Jenn-Air Corporation. Closure for a roof ventilator. 3,651,750, 3-28-72, Cl. 98-85.

Field, William J., to Fields Industrial Research (1971) Limited. Portable cutting torch apparatus. 3,701,515, 10-31-72, Cl. 266-23.00k.

Fieldcrest Mills, Inc.: *See—*
Mac Isaac, John T., Jr.; and Troy, James E., 3,677,206.
Mills, Edwin R.; and Elmore, Ernest L., 3,683,151.
Troy, James E.; and MacIsaac, John T., Jr., 3,636,988.

Fielden, Roy; Green, Albert Lawrence; and Hills, Derek William, to Smith Kline & French Laboratories. 1-β-Hydroxy-β-phenylethylguanidine. 3,655,757, 4-11-72, Cl. 260-564.

Fielder, Glenn D., to Mobil Oil Corporation. Inhibiting etherification in catalytic esterification. 3,644,293, 2-22-72, Cl. 260-75.

Fieldgate, Ivan O., to Potter Instrument Company, Inc. Non-contacting keyboard and interlocking system. 3,641,567, 2-8-72, Cl. 340-365.

Fielding, Francis L., to International Telephone and Telegraph Corporation. Non-store cursor writing on a storage tube. 3,670,200, 6-13-72, Cl. 315-12.000.

Fielding, Harold Crosbie, to Imperial Chemical Industries, Limited. Process for making perfluoroalkyl-acetic acid. 3,632,641, 1-4-72, Cl. 260r539.
Fielding, Harold Crosbie, to Imperial Chemical Industries Limited. Nitrogen-containing derivatives of oligomers of tetrafluoroethylene and hexafluoropropene. 3,646,117, 2-29-72, Cl. 260-508.
Fielding, John O.: *See—*
Ben Daniel, David J.; Morgan, John R.; and Fielding, John O., 3,647,223.
Ben Daniel, David J.; Fielding, John O.; and Hurwitz, Henry, Jr., 3,672,687.
Fields, David P., to Du Pont de Nemours, E. I., and Company. Preparation of alkali metal tetratitanate. 3,649,171, 3-14-72, Cl. 23-51.
Fields, Donald L.: *See—*
Dunham, Kenneth R.; Fields, Donald L.; Borden, Douglas G.; and Miller, Jerry B., 3,637,644.
Fields, Earl C. Wig block. 3,692,031, 9-19-72, Cl. 132-9.000.
Fields, Ellis K., to Standard Oil Company. Novel carboxylic acids and process for synthesizing carboxylic acids. 3,689,538, 9-5-72, Cl. 260-515.00a.
Fields, Ellis K.; and Feinstein, Allen I., to Standard Oil Company. Arylation of olefins. 3,691,243, 9-12-72, Cl. 260-669.00r.
Fields Industrial Research (1971) Limited: *See—*
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Fields, John H., to Honeywell Information Systems Inc., mesne. Reusable circuit board for constructing logic circuits using integrated circuit elements. 3,644,792, 2-22-72, Cl. 317-101.
Fields, Joseph E.: *See—*
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Nielsen, Lawrence E.; and Fields, Joseph E., 3,652,491.
Wharton, Ferdinand D.; Johnson, John H.; Fields, Joseph E.; and Machlin, Lawrence J., 3,655,869.
Fields, Joseph E.; and Johnson, John H., to Monsanto Company. Process for the separation of virus from non-viral proteins. 3,655,509, 4-11-72, Cl. 195-1.5.
Fields, Reuben Thomas, to Du Pont de Nemours, E. I., and Company. Continuous molding of thermoplastic resin. 3,635,631, 1-18-72, Cl. 425-223.
Fields, Richard P.: *See—*
Rebertus, Robert L.; and Fields, Richard P., 3,692,838.
Fields, Richard W.: *See—*
Bellsmith, Travis L.; and Fields, Richard W., 3,671,215.
Fields, Stanley A.; and Reynolds, John M., to United States of America, National Aeronautics and Space Administration. Device and method for determining X-ray reflection efficiency of optical surfaces. 3,702,933, 11-14-72, Cl. 250-51.500.
Fielibert, Josef Frans, to Lever Brothers Company. Process for sealing laminated materials. 3,679,509, 7-25-72, Cl. 156-182.000.
Fienberg, Meyer: *See—*
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Fierle, Robert J.; Mott, James A.; Oles, Herbert E.; and Reed, George A., to American Precision Industries, Inc. Refuse compactor. 3,688,689, 9-5-72, Cl. 100-218.000.
Fierro Esponja, S.A.: *See—*
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Fierstien, Gary N.; and Talvensaari, Paul A., to Motorola, Inc. Power amplifier including plurality of push-pull amplifier sections coupled by ferrite matching transformers. 3,652,948, 3-28-72, Cl. 330-15.
Fierston, Stanley A.; and Nelson, Bruce K., to United States of America, Army. Video pulse converter for the track signal processor. 3,646,554, 2-29-72, Cl. 343-5.
Fieser, Louis F.; Archer, Sydney; and Lorenz, Roman R. 2-(8-cyclohexyloctyl or 7-cyclohexylheptyl)-1 4-dihydro-4-imino-1-oxonaphthalene. 3,636,009, 1-18-72, Cl. 260-396.
Fieser, Louis F.; Arches, Sydney; and Lorenz, Roman R. 4-Amino-2-(8-cyclohexyloctyl or 7-cyclohexylheptyl) -1-naphthol. 3,636,119, 1-18-72, Cl. 260-575.
Fiet, Owen O., to TRW Inc. Electro servosystem for a force balancing gauge. 3,657,630, 4-18-72, Cl. 318-676.
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Brown, Jerald L.; and Harlan, William O., 3,688,804.
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Fifer, Eugene Clarence. Sanitary pad holder. 3,704,710, 12-5-72, Cl. 128-288.000.
Fifer, Rolland L. Means for automatically operating sewage treatment units. 3,655,050, 4-11-72, Cl. 210-86.
Fifer, Rolland L. Waste treatment apparatus and circulation unit therefor. 3,666,242, 2-28-72, Cl. 259-8.000.
Fifth Dimension, Inc.: *See—*
Bitko, Sheldon S., 3,644,693.
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Figar, Stephan, to Ceskoslovenska akademie ved. Pick-up device detecting changes of the volume of mucous membranes in the mouth. 3,650,265, 3-21-72, Cl. 128-2.1.
Figas, Vincent J.: *See—*
Pierno, Michael C.; and Figas, Vincent J., 3,670,762.
Figge, Erwin E.; Lancor, Joseph H., Jr.; and Lodge, Edward H., to Bell & Howell Company. Projector control apparatus. 3,669,532, 6-13-72, Cl. 352-78.00c.
Figge, Erwin E.; and Ho, Edward J., to Bell & Howell Company. Photographic system for step-motion projector. 3,674,348, 7-4-72, Cl. 352-84.000.
Figge, Irving E. Quasi-isotropic sandwich core. 3,642,566, 2-15-72, Cl. 161-131.
Figge, Irving E., to United States of America, Army. Article and method of qussi-isotropic care filaments. 3,645,833, 2-29-72, Cl. 161-57.
Figge, Irving E., to United States of America, Army. Quasi-isotropic sandwich core. 3,657,059, 4-18-72, Cl. 161-47.
Figge, Irving E.; and Karp, Bernard L., to United States of America, Army. Method of making a quasi-isotropic sandwich core. 3,689,345, 9-5-72, Cl. 156-219.000.
Figiel, Francis J., to Allied Chemical Corporation. Novel diamond powder dispersions and process for obtaining same. 3,663,475, 5-16-72, Cl. 252-309.000.
Figliola, Patsy J.; and Mc Callum, Douglas J., Jr., to Dorr-Oliver Incorporated. Means for the submerged introduction of a fluid into a body of liquid. 3,662,781, 5-16-72, Cl. 137-592.
Figov, Murray: *See—*
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Fihl, George E., to General Time Corporation. Electromagnetic indicator operated by coil and permanent magnet means. 3,636,556, 1-18-72, Cl. 340-373.
Fihn, Kurt W., to Esso Research and Engineering Company. Method for treatment of discharged solids from a liquid stream. 3,670,643, 6-20-72, Cl. 100-37.000.
Fijal, Walter R., to BASF Wyandotte Corporation. Sucrose-ethylene diamine polyols and process for preparing same. 3,640,997, 2-8-72, Cl. 260-209.
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Fikse, Tyman H., to Tyee Construction Company. Crane with telescopic boom. 3,674,157, 7-4-72, Cl. 212-55.000.
Filachek, Lawrence A.; and Rakow, Marvin S., to Cities Service Oil Company. Antistatic additive for hydrocarbon fuels. 3,674,450, 7-4-72, Cl. 44-66.000.
Filan, Alton N. Traveling sprinkler. 3,682,387, 8-8-72, Cl. 239-67.000.
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Filatov, Sergei Sergeevich; and Konorev, Mikhail Maximovich. Apparatus for thermocatalytic neutralizing of exhaust gases of an internal combustion engine. 3,669,630, 6-13-72, Cl. 23-288.00f.
Filby, Eric George; and Hobbs, Derek John, to Johnson, Matthey & Co., Limited. Method and apparatus for determining opacity of an object. 3,632,226, 1-4-72, Cl. 356-203.
Fildes, Robert Anthony: *See—*
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File, Harold Thomas, to Aspro-Nicholas Limited. Article sensing apparatus. 3,674,140, 7-4-72, Cl. 209-73.000.
Files, Charles R. Fishing tackle carrier. 3,678,611, 7-25-72, Cl. 43-26.000.
Files, John Austin, to RCA Corporation. Method of manufacture of cathode ray tubes having frit-sealed envelope assemblies. 3,658,401, 4-25-72, Cl. 316-21.
Files, Victor A., to Xerox Corporation. Photosensitive element comprising a polymer matrix including styrene, auramine O, and a peroxide and the use thereof in volume recording. 3,707,371, 12-26-72, Cl. 96-27.00h.
Files, William C., to McGraw-Edison Company. Slant mounted laundry machine. 3,677,039, 7-18-72, Cl. 68-146.000.

Filhol, Jean, to Etablissements Brissonneau et Lotz. Open electric machine for operating in an aggressive medium. 3,688,137, 8-29-72, Cl. 310-43.000.
Filia, George J., to Sargent & Company. Work locator with insulation adjustment for crimping tool. 3,673,848, 7-4-72, Cl. 72-410.000.
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Filipak, Edmund H., to Westinghouse Electric Corporation. Electromechanical interlock. 3,638,457, 2-1-72, Cl. 68-12.
Filipak, Edmund H. Dispenser for clothes washing additives. 3,670,530, 6-20-72, Cl. 68-17.00a.
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Filipovici, Gheorghe. Apparatus for medical treatment by vibrations. 3,664,331, 5-23-72, Cl. 128-51.
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Filippi, Ernest A.; Watson, Jack B.; and Hughes, Larry E., to United States of America, Navy. Pneumatic machine gun with photo-cell interrupted circuit. 3,695,246, 10-3-72, Cl. 124-11.000.
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Fill Metro, to Canada Packers Limited. Loin puller. 3,685,095, 8-22-72, Cl. 17-1.000.
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Fillion, Stanley H., to Dresser Industries, Inc. Combined body bolster center filler and center plate for railway cars. 3,664,269, 5-23-72, Cl. 105-199.00c.
Fillion, Stanley H., to Dresser Industries, Inc. Car body bolster center plate assembly. 3,670,662, 6-20-72, Cl. 105-199.00c.
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Filz, William F., to North Pacific Canners & Packers, Inc. Blanching corn by internal fluid injection. 3,707,384, 12-26-72, Cl. 99-103.000.
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Finberg, Arne, to Mobil Oil Corporation. Chemically controlling grating and rubber particle size in manufacture of high impact polystyrene using a 2-step process. 3,644,587, 2-22-72, Cl. 260-880.
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Finch, Charles R.; and Kuntzsch, Jerold E., to Dow Chemical Company, The. Process for the production of alkenyl aromatic polymers containing a reinforcing polymer therein. 3,660,535, 5-2-72, Cl. 260-880.
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Finch, DeVer C.; and Kennedy, James A., to Honeywell Information Systems, Inc., mesne. Method, apparatus and computer program for determining the transmission rate and coding configuration of remote terminals. 3,676,858, 7-11-72, Cl. 340-172.500.
Finch, Lester M.; and Anthony, Andy J., to United States of America, Atomic Energy Commission. Hydraulic hold-down for nuclear reactor fuel assembly. 3,666,624, 5-30-72, Cl. 176-64.000.
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Findeisen, Heinz H., to Honeywell Inc. Apparatus for correcting and indicating errors in redundantly recorded information. 3,633,162, 1-4-72, Cl. 340-146.1.
Findeisen, Heinz H.; Kallmeyer, James D.; Sokol David G.; Stein, James H.; Thomas, Thomas R.; and Bowers, Jack R., to Sangamo Electric Company. Keyboard to tape data input preparation unit. 3,676,854, 7-11-72, Cl. 340-172.500.
Findeisen, Kurt; Braden, Rudolf; and Holtschmidt, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of halopyrimidines. 3,682,916, 8-8-72, Cl. 260-251.00r.
Findeklee, Heinz, to Linke-Hofmann-Busch Waggon-Fahrzeug-Maschinen GmbH. Multi-step entry particularly for vehicles. 3,651,767, 3-28-72, Cl. 105-448.
Finder, Earl E., to Ecodyne Corporation. Composition and method. 3,668,132, 6-6-72, Cl. 252-80.000.
Findewirth, Wolfgang; Irmscher, Helmut; Kessler, Gunther; and Leubner, Gunther, to VEB Wirkmaschinenbau Karl-Marx Stadt Kombinat fur Wirk- und Strickmaschinenbauerzeugnisse. Fabric takeup for flat knitting machines. 3,651,669, 3-28-72, Cl. 66-149.
Findlay, Campbell; and McQuade, Thomas, to Burroughs Corporation. Typebar for printing uniform density characters. 3,661,077, 5-9-72, Cl. 101-93.
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Findlay, Peter M.; and Phillips, Raymond Henry, to Bentley Engineering Company Limited, The. Latch needle knitting machines. 3,631,690, 1-4-72, Cl. 66-111.
Findley, Anthony W.; and Rogers, Jesse M., to Anchor-Wate Company. Coating apparatus for tubular objects. 3,670,696, 6-20-72, Cl. 118-320.000.
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Fine, Max M. Liquid purifying system. 3,674,650, 7-4-72, Cl. 202-176.000.
Fine, Richard A., to Norton Company. Removal of surface from boron carbide composite armor. 3,702,593, 11-14-72, Cl. 109-80.000.
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Finestone, Arnold B.; and Niechwiadowicz, Michal, to Foster Grant Co., Inc. Process of making expandable polymeric styrene particles. 3,657,162, 4-18-72, Cl. 260-2.5.
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Finger, Eugene P., to Curtis Instruments, Inc. Capacitive coulometer improvements. 3,704,432, 11-28-72, Cl. 331-183.000.
Finger, John F., to Sioux Steam Cleaner Corporation. Damping and auxiliary pumping apparatus. 3,692,433, 9-19-72, Cl. 417-382.000.
Finger, Julie. Modular frame structure and connector. 3,632,147, 1-4-72, Cl. 287-189.36.
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Fink, Frank J., to Imperial Manufacturing and Engineering Company. Method of installing insert ring in pipe unions. 3,685,131, 8-22-72, Cl. 29-417.000.
Fink, Hans-Ferdi; Koerner, Gotz; Rossmy, Gerd; and Schmidt, Gunter, to Goldschmidt, Th., A.-G. Fire extinguishing foams containing finely despersed silica. 3,655,554, 4-11-72, Cl. 252-3.
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Fink, Leon, Jr.; and Fricker, David C., to ECC Corporation. Speed responsive motor starting system. 3,657,621, 4-18-72, Cl. 318-221.
Fink, Richard R. Camming strain relief bushing. 3,689,014, 9-5-72, Cl. 248-56.000.
Fink, Robert H.; and Palm, Eugene J., to United States of America, Army. Rocket motor and method. 3,677,010, 7-18-72, Cl. 60-220.000.
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Fink, Werner; Schlitz, Erwin; and Werner, Gunther, to International Telephone and Telegraph Corporation. Antiskid control circuit. 3,652,137, 3-28-72, Cl. 303-21.

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Fink, William C., to General Motors Corporation. Seven-state resistance sensing supervisory system utilizing single pole-double throw switches. 3,702,473, 11-7-72, Cl. 340-409.000.

Fink, William C.; and Stewart, William R., to General Motors Corporation. Seven state resistance sensing supervisory system. 3,702,474, 11-7-72, Cl. 340-409.000.

Finkbiner, Roy R., to Barber-Colman Company. Adjustable depth immersion temperature sensing device. 3,679,490, 7-25-72, Cl. 136-221.000.

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Finke, Eugene W., to Monarch Marking System Company, The. Tag attacher. 3,650,452, 3-21-72, Cl. 227-67.

Finke, Theodore R., to Euclid Products Co., Inc., The. Apparatus for cutting strip material in variable lengths. 3,695,133, 10-3-72, Cl. 83-204.000.

Finkel, Gilbert: *See—*
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Finkelstein, Leo; and Blissel, John J., to United States of America, Army. Gasoline thickened with latex composition. 3,639,108, 2-1-72, Cl. 44-7.

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Finkenzeller, Johann; and Schmidt, Artur. X-ray diagnostic device having a patient chair and an X-ray source whose relative orientation is constant. 3,655,967, 4-11-72, Cl. 250-50.

Finkhauser, Dieter; and Friese, Andre, to Siemens Aktiengesellschaft. Call re-routing system for telephone installations. 3,673,341, 6-27-72, Cl. 179-18.0be.

Finkl, A., & Sons Company: *See—*
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Finkl, Charles W., to Finkl, A., & Sons Company. Treatment of molten metal using arc heat and vacuum. 3,635,696, 1-18-72, Cl. 75-11.

Finkle, Eugene D.; and Patterson, James A. Tennis racket for developing tennis swing. 3,679,205, 7-25-72, Cl. 273-29.00a.

Finkle, Jack. Image intensifier device and method for receiving radiant energy images for conversion and intensification. 3,663,821, 5-16-72, Cl. 250-213.

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Finlay, Joseph B.; and Hagman, John F., to Du Pont de Nemours, E. I., and Company. Polychloroprene sol-gel blends. 3,655,827, 4-11-72, Cl. 260-890.

Finlay, Walter L.; Nayar, Harbhajan S.; and Hay, Donald A., to Copper Range Company. Production of dispersion hardened copper sheet from metal powders by roll compacting. 3,632,697, 1-4-72, Cl. 264-.5.

Finlay, Walter L.; and Bomberger, Howard B., Jr., to Crucible Inc. Method for melting titanium alloys. 3,645,727, 2-29-72, Cl. 75-175.5.

Finlay, Walter L.; Fisher, Henry J.; and Hay, Donald A., to Copper Range Company. Copper base composition. 3,677,745, 7-18-72, Cl. 75-153.000.

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Finley, Gilbert Ralph, to Lucas, Joseph, (Industries) Limited. Vehicle windscreen wiping mechanisms. 3,686,706, 8-29-72, Cl. 15-250.160.

Finley, John G. Supported releasable polyolefin films. 3,690,909, 9-12-72, Cl. 117-6.000.

Finley, John W., to United States of America, Agriculture. Kynurenine derivatives as sweetening agents. 3,702,255, 11-7-72, Cl. 99-141.00a.

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Finley, Robert L.; and Sansom, Raymond E., to Diventco, Inc. Plunger operated rotatable collet. 3,643,969, 2-22-72, Cl. 279-4.

Finley, Ronald K.; Langlois, Donald J.; and Nicholson, Robert H., to HCA Food Corporation. Process of clam evisceration. 3,659,315, 5-2-72, Cl. 146-222.

Finley, Tom D., to United States of America, National Aeronautics and Space Administration. Split range transducer. 3,638,114, 1-25-72, Cl. 324-115.

Finn, Arthur F. Aquatic recreation device. 3,664,290, 5-23-72, Cl. 115-20.

Finn, Frederick George, to Post Office, The. Power operated wire wrapping tools. 3,695,309, 10-3-72, Cl. 140-12.00a.

Finn, George P., Jr., to Floturn Inc. Method and apparatus for reconditioning a drum of a reproducing machine. 3,680,341, 8-1-72, Cl. 72-125.000.

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Finn, John J., 1/2 to Glenn Electric Heater Corporation. Electric heater. 3,691,347, 9-12-72, Cl. 219-535.000.

Finn, Steven G. Electronic lock and alarm system. 3,659,154, 4-25-72, Cl. 317-134.

Finnegan, Edward D.; Harper, Leonard Roy; Mitrofanoff, Nicholas S.; and Slutman, Allen C., to International Business Machines Corporation. Central processing unit in which all data flow passes through a single arithmetic and logic unit. 3,701,105, 10-24-72 Cl. 340-172.500.

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Finnegan, Walter D., to Kaiser Aluminum & Chemical Corporation. Roll bonding an aluminum-ferrous composite with grooved rolls. 3,639,974, 2-8-72, Cl. 29-493.

Finnegan, Walter D., to Kaiser Aluminum & Chemical Corporation. Electrolytic reduction cell. 3,650,941, 3-21-72, Cl. 204-243.

Finnegan, Walter D., to Kaiser Aluminum & Chemical Corporation. Steel-to-aluminum transition piece. 3,664,816, 5-23-72, Cl. 29-196.200.

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Finney, Charles N. Picture-ironing board combination. 3,641,947, 2-15-72, Cl. 108-38.

Finney, Jack R.: *See—*
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Finney, James Harold. Levelling system for semi end dump trucks. 3,640,578, 2-8-72, Cl. 298-17.

Finney, Karl F.: *See—*
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Finney, Peter E., to Nitrochill Limited. Cryogenic filling valve. 3,645,291, 2-29-72, Cl. 137-588.

Finney, Philip F., to Thermo-Couple Products Company, Inc. Metal cast cooking unit having a temperature sensitive control sensor. 3,701,884, 10-31-72, Cl. 219-449.000.

Finney, Phillip F., to Thermo-Couple Products Company, Inc. Temperature sensitive control sensor. 3,650,024, 3-21-72, Cl. 29-615.

Finney, Robert R.: *See—*
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Fino, Michele; and Giussani, Giorgio. Equipment for longitudinally cutting tree logs. 3,648,743, 3-14-72, Cl. 143-39.

Finster, Leslie Phillip: *See—*
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Finsterwalder, Ulrich; and Finsterwalder, Klemens, to Dyckerhoff & Widmann Kommanditgesellschaft. Multi-section bridge supporting structure of steel or reinforced concrete having supports centrally of the cross-section of the structure. 3,662,656, 5-16-72,Cl. 94-1.000.

Finsterwalder, Ulrich; Finsterwalder, Klemens; and Stefaniak, Hans, to Dyckerhoff & Widmann. Suspension bridge. 3,673,624, 7-4-72, Cl. 14-19.000.

Fintel, William Achard; Heighton, Harold Hubbard; and Rossman, John Guise, Jr., to Du Pont de Nemours, E. I., and Company. Process and apparatus for quenching melt spun filaments. 3,705,227, 12-5-72, Cl. 264-176.00f.

Finucane, Thomas P.; and Capasso, Philip J., to General Foods Corporation. Low calorie frozen desserts. 3,702,768, 11-14-72, Cl. 99-136.000.

Fiocca, Emanuel Richard. Garment hanger for suits. 3,651,999, 3-28-72, Cl. 223-88.

Fiocca, Louis L. Solid-state power supply system for rotating anode X-ray tubes. 3,641,408, 2-8-72, Cl. 318-227.

Fiocco, Robert J., to Esso Research and Engineering Company. Coalescer cartridge and coalescer for oily water. 3,645,398, 2-29-72, Cl. 210-73.

Fiocco, Robert J.; and Wilson, Edward L., to Esso Research and Engineering Company. Coal liquefaction solids removal. 3,687,837, 8-29-72, Cl. 208-8.000.

Fioravanti, Alain J. F. R.: *See—*

Fioravanti, Jean; Carriere, Robert Lucien; Thibault, Paul; and Fioravanti, Alain J. F. R., 3,667,416.
Fioravanti, Jean; Carriere, Robert Lucien; Thibault, Paul; and Fioravanti, Alain J. F. R. Devices for cutting a channel in a layer of ice, and an ice-breaker ship equipped with said devices. 3,667,416, 6-6-72, Cl. 114-42.000.
Fioravanti, Leonardo, to Carrozzeria Pininfarina Societa per Azioni. Electric energy distribution systems. 3,697,767, 10-10-72, Cl. 307-10.00r.
Fiore, Anthony N.; and McCarron, John D., to Spacetac Incorporated. Pulse generating circuit for producing pulses of amplitude which is a multiple of the amplitude of the source voltage. 3,648,181, 3-7-72, Cl. 328-59.
Fiore, Jack C.; and Tennerstedt, M. Richard, to Motorola, Inc. Multi-band memory assembly. 3,704,424, 11-28-72, Cl. 325-470.000.
Fiore, John, to Rex Chainbelt Inc., mesne. Crack detection method and system therefor. 3,691,820, 9-19-72, Cl. 73-40.700.
Fiore, John M., to Bio-Analytical Laboratories, Inc. Speculum instrument and isolated light means therefor. 3,675,641, 7-11-72, Cl. 28-6.000.
Fiore, Joseph P., to Zenith Radio Corporation. Manufacture of shadow mask color picture tube. 3,676,914, 7-18-72, Cl. 29-25.160.
Fiorentino, Antonio F. Remote radio winch control unit. 3,699,578, 10-17-72, Cl. 343-225.000.
Fiorentino, Arthur A., to Thomas & Betts Corporation. Coupling adaptor. 3,649,998, 3-21-72, Cl. 24-73.
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Firestone, Alexander H.; Fisk, Robert W.; and Kennedy , Kurt D., to Air Reduction Company, Incorporated. Heating system for electron beam furnace. 3,655,902, 4-11-72, Cl. 13-31.
Firestone, Floyd A. Airplane with spatial panorama. 3,643,899, 2-22-72, Cl. 244-118.
Firestone, Jerome, to Saxton Products, Inc. Telephone connector. 3,660,797, 5-2-72, Cl. 339-29.00r.
Firestone, Jerome, to Saxton Products, Inc. Telephone adapter. 3,668,324, 6-6-72, Cl. 179-1.0pc.
Firestone, Max. Crossbow cocking device. 3,670,711, 6-20-72, Cl. 124-25.000.
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Firestone, Raymond A., to Merck & Co., Inc. Process for preparing (±) (cis-1,2-epoxypropyl) phosphonic acid esters and salts. 3,634,463, 1-11-72, Cl. 260-348.
Firestone, Raymond A., to Merck & Co., Inc. Preparation of (cis-1,2-epoxypropyl) phosphonates from substituted imino compounds. 3,637,763, 1-25-72, Cl. 260-348.
Firestone, Raymond A., to Merck & Co., Inc. Method for the preparation of (cis-1,2 epoxypropyl) -phosphonic acid and derivatives. 3,637,765, 1-25-72, Cl. 260-348.
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Firestone, Raymond A., to Merck & Co., Inc. Resolution of (±) (cis-1,2-epoxypropy)-phosphonic acid. 3,660,432, 5-2-72, Cl. 260-348.
Firestone, Raymond A., to Merck & Co., Inc. Esters and amides of (diazomethyl)phosphonic acid. 3,668,197, 6-6-72, Cl. 260-239.0aa.
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Firth, Jack Graham; and Jones, Thomas Alwyn, to National Research Development Corporation. Infra-red gas detectors. 3,702,397, 11-7-72, Cl. 250-43.50r.

Firth, Jay A.; and Power, Carlton. Hoof repair device. 3,682,179, 8-8-72, Cl. 128-336.000.

Firth, William Charles, Jr.; and Frank, Simon, to American Cyanamid Company. Certain nitrogen-fluorine compounds and methods of preparation. 3,699,094, 10-17-72, Cl. 260-221.000.

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Fischbacher, Hermann, to Fischer, Georg, AG. Conveyor roll arrangement. 3,669,243, 6-13-72, Cl. 198-127.00r.

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Fischbein, Irwin W.; Galligan, John D.; Schwartz, Anthony M.; and Youngquist, William S., to Gillette Company, The. Razor blades. 3,638,308, 2-1-72, Cl. 30-346.53.

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Fischer, Artur. Method of making structural element. 3,676,918, 7-18-72, Cl. 29-453.000.

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Fischer, Eduard F.; Farnworth, Edwin; and Christensen, Elmer, to Black Clawson Company, The. Method of and apparatus for storing a fluent material. 3,661,283, 5-9-72, Cl. 214-152.000.

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Fischer, Hannes; and Kuhlkamp, Alfred, to Chemische Werke Albert. Process for electrodeposition. 3,657,092, 4-18-72, Cl. 204-181.
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Fischer, Hans Jurgen; and Behrmann, Georg, to Faun-Werke Kommunalfahrzeuge und Lastkraftwagen Karl Schmidt. Portable platforms, with roller means installed on their upper side, for the handling and transporting of freight. 3,690,485, 9-12-72, Cl. 214-310.00.
Fischer, Harry C., to Allied Chemical Corporation. Open cycle ammonia refrigeration system including a catalytic ammonia burner. 3,685,310, 8-22-72, Cl. 62-114.000.
Fischer, Harry F., Jr.; and Lang, John N., to All-State Industries, Inc. Roof with gravel stop. 3,680,269, 8-1-72, Cl. 52-94.000.
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Fischer, Karl. Regulator. 3,668,593, 6-6-72, Cl. 337-319.000.
Fischer, Karl; and Schreder, Felix, to Mssrs. E. G. O. Elektro-Gerste Blaore u. Fischer. Thermoslatically controlled electric cooker hot plate. 3,684,862, 8-15-72, Cl. 219-450.000.
Fischer, Knut, to Heye, Hermann. Apparatus for inspecting glass containers or the like. 3,687,559, 8-29-72, Cl. 356-240.000.
Fischer, Leonard G.; and Wong, Philip, to DCA Food Industries Inc. Method of forming an adherent coating on foods. 3,676,158, 7-11-72, Cl. 99-166.000.
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Fischer, Othmar, to International Standard Electric Corporation. Electromagnetic pulse counter. 3,643,186, 2-15-72, Cl. 335-119.
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Fischer, Paul W., to Union Oil Company of California. Method for inhibiting the deposition of wax from wax-containing oil. 3,669,189, 6-13-72, Cl. 166-279.
Fischer, Paul W.; and Holm, Leroy W., to Union Oil Company of California. Method for inhibiting the deposition of wax from wax-containing soluble oils and micellar dispersions and soluble oil and micellar compositions inhibited thereby. 3,682,249, 8-8-72, l. 166-305.00r.
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Fischer, Stefan; and Fischer, Rainer, 3,647,341.
Fischer, Raymond C., to International Harvester Company. Implement carrier. 3,654,999, 4-11-72, Cl. 172-311.
Fischer, Raymond G., to International Harvester Company. Duplex implement hitch. 3,675,945, 7-11-72, Cl. 280-411.00c.
Fischer, Raymond P.; and Whalen, John F., to Combined Paper Mills, Inc. Self releasable nonmoisture activated wall covering. 3,663,269, 5-16-72, Cl. 117-76.
Fischer, Richard, to Braun Aktiengesellschaft. Shearing head for dry shaver. 3,673,683, 7-4-72, Cl. 30-34.100.
Fischer, Robert B.: *See—*
Cox, Conrad M.; and Fischer, Robert B., 3,681,682.
Fischer, Robert E.; Raiff, Lawrence C.; Seybold, James M.; and Zimmerle, Donald F., to National Cash Register Company, The. Document scanning and display system. 3,674,924, 7-4-72, Cl. 178-6.800.
Fischer, Robert Frederick, to Bell Telephone Laboratories, Incorporated. Domain propagation arrangement. 3,699,551, 10-17-72, Cl. 340-174.0tf.
Fischer, Robert T.; and Martin, Byron W., to Miner Enterprises, Inc. Hopper discharge assembly. 3,663,066, 5-16-72, Cl. 302-42.
Fischer, Roman; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of carboxylic esters of β-formylcrotyl alcohol. 3,639,437, 2-1-72, Cl. 260-405.6.
Fischer, Ronald S. Air neutralization. 3,654,534, 4-4-72, Cl. 317-262.
Fischer, Stefan; and Fischer, Rainer. Mold synchronizing apparatus. 3,647,341, 3-7-72, Cl. 425-326.
Fischer, Stefan. Apparatus for making hollow articles. 3,663,143, 5-16-72, Cl. 18-5.
Fischer, Stefan. Apparatus for the manufacture of hollow objects of thermoplastic material. 3,685,943, 8-22-72, Cl. 425-326.000.
Fischer, Stefan. Apparatus for the manufacture of hollow objects, in particular bottles of thermoplastic material utilizing injection blowing method. 3,690,802, 9-12-72, Cl. 425-326.000.
Fischer, Stefan. Apparatus for making hollow articles. 3,704,977, 12-5-72, Cl. 425-326.000.
Fischer, Thomas R., to Cincinnati Milacron Inc. Apparatus for controlling relative motion between gage jaws on a contacting gage. 3,700,993, 10-24-72, Cl. 318-603.000.
Fischer, Vincent A., to Bodine Electric Company. Overload protection system for DC motors. 3,646,396, 2-29-72, Cl. 317-13.
Fischer, Wilhelm Anton, to Dynamit Nobel Aktiengesellschaft. Metallurgical furnaces or vessels. 3,687,437, 8-29-72, Cl. 266-43.000.
Fischer, Willi: *See—*
Stahl, Gerhard; Spahn, Walter; Fischer, Willi; and Auth, Franz, 3,642,258.
Fischer, William H.; and Aspey, Wayne S., to Westinghouse Electric Corporation. Operating mechanism for a circuit interrupter. 3,639,713, 2-1-72, Cl. 200-148.
Fischer, William H., to Westinghouse Electric Corporation. Circuit breakers having radial magnetic field coil inserted into series circuit during the opening operation. 3,665,134, 5-23-72, Cl. 200-148.
Fischer, William K., to Uniroyal, Inc. Thermoplastic polymer blends containing polyvinyl chloride, polyether urethane and butadiene-acrylonitrile copolymers. 3,678,129, 7-18-72, Cl. 260-859.0pv.
Fischer-Cook, Inc.: *See—*

Cook, Robert W.; Bissaillon, Edmond J.; and Dickinson, Robert P., 3,642,032.

Fischern, Bernhard V.: *See—*
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Fischetti, Pasquale, to Pirelli, S.p.A. Expansion joints for rigid metallic pipes. 3,666,296, 5-30-72, Cl. 285-45.

Fischman, Martin, to GTE Laboratories Incorporated. Sawtooth current generator. 3,678,331, 7-18-72, Cl. 315-27.0td.

Fisenko, Konstantin Vitalievich: *See—*
Novikov, Alexei Viktorovich; Fridman, Lev Petrovich; Zinkovsky, Viktor Antonovich; Denisov, Vladimir Ivanovich; Fisenko, Konstantin Vitalievich; Rattenberg, Vadim Nikolaevich; and Presnyakov, Alexandr Alexandrovich, 3,683,998.

Fisenpresser, Marvin L.: *See—*
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Fish, Austin D.; Fisher, William G.; and Brubaker, Robert F., to General Motors Corporation. Method of supplying rinse water to a pair of open top tubs. 3,663,975, 5-23-72, Cl. 8-158.

Fish Engineering & Construction, Inc.: *See—*
Hegwer, Arnold M., 3,664,091.
Randall, Bill R.; and Gulsby, Jerry G., 3,702,541.

Fish, Frank H.; and McLaughlin, Edward P., to Gillette Company, The. Deposition apparatus. 3,652,443, 3-28-72, Cl. 204-298.

Fish, Frank H.; Fischbein, Irwin W.; and Slater, Mandel E., to Gillette Company, The. Aqueous tetrafluoroethylene telomer dispersions. 3,658,742, 4-25-72, Cl. 260-29.6.

Fish, Ian Anthony. Applying sheet material to a box. 3,657,976, 4-25-72, Cl. 93-54.

Fish, John G., to Texas Instruments, Incorporated. Purification of silicon halides. 3,682,594, 8-8-72, Cl. 23-205.000.

Fish, Leonard A.: *See—*
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Fish, Percy J.; and Clark, Malcolm B., to Plessey Handel und Investments A.G. Feedback control systems. 3,668,533, 6-6-72, Cl. 328-168.

Fish, Ray F., to Electro Adapter Inc. Adapter for electrical cable. 3,659,251, 4-25-72, Cl. 339-143.00r.

Fish, William M., to Aluminum Company of America. Extraction of alumina from bauxite. 3,681,013, 8-1-72, Cl. 23-143.000.

Fishback, Alton J.: *See—*
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Fishbein, Meyer. Orthopedic single-blade bone cutter. 3,633,583, 1-11-72, Cl. 128-305.

Fishbein, Meyer. Surgical expansive reamer for hip socket. 3,702,611, 11-14-72, Cl. 128-305.000.

Fishburne, Francis B. Apparatus for packing loose compressible material in rectangular containers. 3,641,734, 2-15-72, Cl. 53-124.

Fishel, Kenneth R., to United States of America, Navy. Hydraulic claw control switching arrangement. 3,695,671, 10-3-72, Cl. 294-88.000.

Fisher & Paykel Limited: *See—*
Melville, Alfred W.; O'Hare, David H.; and Brickell, Christopher G., 3,659,604.

Fisher, Albert W., Jr., to McKee Baking Company. Apparatus for forming Swiss Rolls. 3,704,664, 12-5-72, Cl. 99-450.200.

Fisher, Arthur Miller. Humane animal traps. 3,640,015, 2-8-72, Cl. 43-83.5.

Fisher, Arthur Orman, to Monsanto Company. Corrosion resistant apparatus. 3,649,187, 3-14-72, Cl. 23-167.

Fisher, Charles H. Methods for preparing valuable keto and hydroxy cyclic compounds. 3,674,880, 7-4-72, Cl. 260-621.00r.

Fisher, Charles K.: *See—*
Duffy, William B.; and Fisher, Charles K., 3,659,491.

Fisher, Chester Donald, to Sprout, Waldron & Company, Inc. Pressurized refiner seal assembly. 3,701,488, 10-31-72, Cl. 241-256.000.

Fisher Controls Company, Inc.: *See—*
Buls, Melvin Lawrence; and Varnum, Gerald Frank, 3,692,054.
Kane, Robert R.; and Glaser, Charles J., Jr., 3,695,576.

Fisher Controls Company, Inc., mesne: *See—*
Seaman, Wendell L.; and Etter, William A., 3,631,893.

Fisher, David G., to Dayco Corporation. Power transmission belt and apparatus for and method of making same. 3,657,938, 4-25-72, Cl. 74-233.

Fisher, Dennis Glendon, to RCA Corporation. Method for activating a semiconductor electron emitter. 3,669,735, 6-13-72, Cl. 117-224.000.

Fisher, Donald J.; and Severynse, Gerard T., to Xerox Corporation. Cleaning method for electrostatic copying machines. 3,655,373, 4-11-72, Cl. 96-1.4.

Fisher, Donald J.; and Davies, Robert G., to Xerox Corporation. Electrode imaging system. 3,657,103, 4-18-72, Cl. 204-299.

Fisher, Edmund A.: *See—*
Curington, Wayne C.; Fisher, Edmund A.; and Taylor, William M., 3,688,840.

Fisher, Ervin; and Warshawsky, Jay, to Fuller Company. Dust collector. 3,653,188, 4-4-72, Cl. 55-283.

Fisher, Fred: *See—*
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Weston, Murray; Anderson, Dennis; and Cole, Steve, 3,668,479.

Fisher Gange Limited: *See—*
Fisher, William Frederick, 3,701,377.
Graham, Eric Purdy, 3,701,378.

Fisher, Gene Alan, to International Business Machines Corporation. Low inertia armature winding formed of a continuous wire. 3,634,708, 1-11-72, Cl. 310-195.

Fisher, George M. C., to Bell Telephone Laboratories, Incorporated. Method of achieving surface refractive index changes in a glass light guide element. 3,647,406, 3-7-72, Cl. 65-30.

Fisher, George Myles Cordell; Froehlich, Fritz Edgar; Levin, William; McDowell, Blake, III; and O'Boyle, Leonard Edward, to Bell Telephone Laboratories, Incorporated. Telewriting system. 3,706,850, 12-19-72, Cl. 178-18.000.

Fisher, Guy Norwood, to Kraftco Corporation. Collapsible dispenser with dispensing cap. 3,666,145, 5-30-72, Cl. 222-107.

Fisher, Harold M.: *See—*
Mitchell, Maurice M., Jr.; Fisher, Harold M.; and Tomezsko, Edward S., 3,655,792.
Mitchell, Maurice M., Jr.; Fisher, Harold M.; and Tomezsko, Edward S., 3,655,800.

Fisher, Harold M., to United States of America, Army. Solid propellant composition with burning rate catalyst. 3,666,575, 5-30-72, Cl. 149-19.000.

Fisher, Henry J.: *See—*
Finlay, Walter L.; Fisher, Henry J.; and Hay, Donald A., 3,677,745.

Fisher, Ian Stuart: *See—*
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Fisher, Ivan E., to Owatonna Manufacturing Company, Inc. Reel construction with hexagonal spiders for mounting both bats and tine bars. 3,698,166, 10-17-72, Cl. 56-220.000.

Fisher, Jack M.: *See—*
Cleveland, Richard E.; Fisher, Jack M.; Glaze, Jack G.; and Jeakle, William G., 3,650,349.

Fisher, James C. Farm wagon steering stabilizer. 3,695,628, 10-3-72, Cl. 280-103.000.

Fisher, James E.; Mitchell, Jack L.; and Wisdom, Gerald F., to Tiger Products, Inc. Support or stand for trees. 3,693,918, 9-26-72, Cl. 248-46.000.

Fisher, John, to Warner & Swasey Company, The. Turret assembly. 3,665,789, 5-30-72, Cl. 74-813.00l.

Fisher, John A., to U.S. Divers Co. Adjustable breathing gas pressure regulator. 3,698,425, 10-17-72, Cl. 137-505.250.

Fisher, John G.; and Coates, Clarence A., Jr., to Eastman Kodak Company. Pyrazolyl-azo-indole dyestuffs. 3,634,391, 1-11-72, Cl. 260-162.

Fisher, John L., to McGraw-Edison Company. Transformer strip winding. 3,634,800, 1-11-72, Cl. 336-206.

Fisher, John M.; and Paige, Kenneth E., to Goodrich, B. F., Company, The. Friction panel. 3,656,579, 4-18-72, Cl. 182-48.

Fisher, John M. Escape slide positioning tube. 3,669,217, 6-13-72, Cl. 182-48.000.

Fisher, Leslie George, to G.K.N. Birfield Transmissions Limited. Sealed type universal joint. 3,646,778, 3-7-72, Cl. 64-32.

Fisher, Mahlon B., to United States of America, Air Force. Electronic lens for a photoelectron multiplier. 3,641,352, 2-8-72, Cl. 250-207.

Fisher, Mahlon B.; Schiller, Charles K.; and Ziemelis, Ojars J., to GTE Sylvania Incorporated. Multi-channel photomultiplier tube. 3,668,388, 6-6-72, Cl. 313-95.000.

Fisher, Martin John: *See—*
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Fisher, Michael H.: *See—*
Hoff, Dale R.; and Fisher, Michael H., 3,646,049.

Fisher, Michael H.; Hoff, Dale R.; and Bochis, Richard J., to Merck & Co., Inc. 1-Oxybenzimidazoles. 3,686,110, 8-22-72, Cl. 260-302.00h.

Fisher, Michael H., to Merck & Co., Inc. Imidazo [1,2-a] pyridines. 3,701,780, 10-31-72, Cl. 260-290.800.

Fisher, Michael H.; Hoff, Dale R.; and Bochis, Richard J., to Merck & Co., Inc. Polyhaloalkyl benzimidazoles. 3,705,174, 12-5-72, Cl. 260-309.200.

Fisher, Milton W.: *See—*
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Fisher, Myron W.; and Hanessian, Stephen, to Parke, Davis & Company. Polyvalent immunizing agents and methods for their production. 3,674,863, 7-4-72, Cl. 424-92.000.

Fisher, Peter D.; Word, James C., IV; and Bourg, Haden J., Jr. Method and apparatus for depositing doped and undoped glassy chalcogenide films at substantially atmospheric pressure. 3,657,006, 4-18-72, Cl. 117-201.

Fisher, Peter D.; Mergerian, Dickron; and Minarik, Ronald W., to Westinghouse Electric Corporation. Device to measure infrared radiation. 3,691,383, 9-12-72, Cl. 250-83.30h.

Fisher, Philip C., Jr.; and Shaner, Kenneth H., to Sylvania Electric Products, Inc. Short persistence zinc sulfide blue phosphor and method of preparing same. 3,666,677, 5-30-72, Cl. 252-301.60s.

Fisher, Philip J. M.: *See—*
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Fisher, Raymond E., to Sperry Rand Corporation. Control means for rolling rack of bale wagon. 3,635,359, 1-18-72, Cl. 214-6.
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Fisher, Richard M.: *See—*
Jacovides, Linos J.; Lyon, David M.; and Fisher, Richard M., 3,705,971.
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Fisher, Robert; and Herog, Milton W., to Goodman, H., & Sons, Inc. Display apparatus. 3,650,408, 3-21-72, Cl. 211-57.
Fisher, Robert; and Herzog, Milton W., to Goodman, H., & Sons, Inc. Merchandise displays. 3,661,271, 5-9-72, Cl. 211-88.
Fisher, Robert C. Locking seat belt retractor. 3,667,698, 6-6-72, Cl. 242-107.400.
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Fisher, Robert D.; Jones, Ernest W.; and Grossi, Eugene A., to Ferroxcube Corporation. Method of making plated wire memory element. 3,645,857, 2-29-72, Cl. 204-28.
Fisher, Robert D.; and Jones, Ernest W., to Ferroxcube Corporation. Plated wire memory. 3,648,259, 3-7-72, Cl. 340-174.
Fisher, Robert E.: *See—*
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Fisher, Robert E., to Combustion Engineering, Inc. Refractory mortar. 3,649,313, 3-14-72, Cl. 106-56.
Fisher, Robert E., to Mobil Oil Corporation. Biaxial orientation of thermoplastic film. 3,676,539, 7-11-72, Cl. 264-175.000.
Fisher, Robert L.: *See—*
Casaday, William M.; and Fisher, Robert L., 3,667,011.
Fisher, Robert L., to Elkhart Welding and Boiler Works, Inc. Modular home transport vehicle. 3,697,098, 10-10-72, Cl. 280-415.00r.
Fisher Scientific Company, mesne: *See—*
Schuch, John A.; and Brech, Frederick, 3,680,959.
Fisher, Sidney L., to Spider Staging, Inc. Suspended staging hold-in apparatus. 3,661,226, 5-9-72, Cl. 182-142.
Fisher, Sidney L., to Spider Staging, Inc. Suspended staging type welding machine. 3,671,712, 6-20-72, Cl. 219-125.00r.
Fisher, William E.: *See—*
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Fisher, William Frederick, to Fisher Gange Limited. Method and apparatus for die casting by pressure injection. 3,701,377, 10-31-72, Cl. 164-113.000.
Fisher, William G.: *See—*
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Fisher, William J., 50% to Braverman, Maynard, mesne. Apparatus for processing flexible metallic conduit. 3,672,015, 6-27-72, Cl. 29-33.00k.
Fisher, William M., to Atlantic Merchandising Company. Clothes hanger carrier. 3,705,674, 12-12-72, Cl. 224-45.00t.
Fishing Creek Industries, Inc.: *See—*
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Fishken Products Co.: *See—*
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Tishken, Paul, 3,653,245.
Fishlove, H., & Co.: *See—*
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Mc Millan, William A., 3,635,470.
Fishman, Jerry Haskel; Henry, Jean Francois; and Tessore, Susanne, to Leesona Corporation. Process for the preparation of an electrocatalyst. 3,645,860, 2-29-72, Cl. 204-35.
Fishman, Murray, 49% to Loscalzo, Nicholas R. and 51% to Coloprisco, Frank. Leather printing composition. 3,691,118, 9-12-72, Cl. 260-19.0va.
Fishman, Sherman S. Apparatus for ultrasonic pipet washing. 3,638,666, 2-1-72, Cl. 134-57.
Fishwick, Brian: *See—*
Baron, Thomas Douglas; and Fishwick, Brian, 3,637,651.
Fishwick, Brian Ribbons, to Imperial Chemical Industries Limited. Disperse monoazo dyestuffs. 3,637,652, 1-25-72, Cl. 260-207.1.
Fisk, Dale E., to International Business Machines Corporation. Two-way communication system for video and digital data. 3,691,295, 9-12-72, Cl. 178-58.000.
Fisk, James C. Gauge support. 3,663,190, 5-16-72, Cl. 51-165.74.
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Fismer, William L. Method for lifting flasks and molds. 3,643,725, 2-22-72, Cl. 164-44.
Fisons, Limited: *See—*
Altounyan, Roger Edward Collingwood; and Howell, Harry, 3,669,113.
Burton, Dennis Ernest, 3,644,637.
Fitch, Stanley Frederick; and St. John, Dara Derrick Phiroz, 3,696,003.
Gates, Peter Stuart; Gillon, John; and Saggers, David Thomas, 3,689,507.
Miller, John; and Searle, Martin, 3,678,114.
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Fisons Pest Control Limited: *See—*
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Alsop, Ranulph Michael; and Bremner, Ian, 3,639,588.
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Altounyan, Roger Edward Collingwood; Howell, Harry; and Rowlands, Martyn Omar, 3,635,219.
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Fitzmaurice, Colin; and Minshull, Robert, 3,665,013.
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Hartley, Philip Saxton; and Gunning, Stephen Raymond, 3,634,582.
Hunter, William Hubert; and Harbridge, John Barry, 3,689,493.
Fister, Aloysius J., to McGraw-Edison Company. Protector for electric circuits. 3,644,861, 2-22-72, Cl. 337-252.
Fister, Julius C., Jr., to Olin Corporation. Aluminum-steel composites. 3,705,023, 12-5-72, Cl. 29-196.200.
Fister, Karoly G.; and Gibbons, Martin D., to General Electric Company. Photocathode-phosphor imaging system for X-ray camera tubes. 3,706,885, 12-19-72, Cl. 250-83.30r.
Fister, Louis P.: *See—*
Scheublein, William A.; Fister, Louis P.; Fitch, Lawrence H.; and Jeney, George K., 3,658,312.
Scheublein, William A., Jr.; and Fister, Louis P., 3,656,221.
Scheublein, William A., Jr.; and Fister, Louis P., 3,675,941.
Fister, Louis P. General purpose presettable electro-mechanical combination safety lock device. 3,663,867, 5-16-72, Cl. 317-134.
Fister, Robert V.: *See—*
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Fitch, Frederick T.: *See—*
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Fitch, Harold G.: *See—*
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Fitch, John C., to Fibco, Inc. Highway safety device. 3,643,924, 2-22-72, Cl. 256-13.1.
Fitch, John L.; and Vogt, Thomas C., Jr., to Mobil Oil Corporation. Formation fracturing. 3,642,068, 2-15-72, Cl. 166-307.
Fitch, Lawrence H.: *See—*
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Fitch, Melvin G.: *See—*
Samiran, David; Cooling, Robert O.; and Fitch, Melvin G., 3,675,645.
Fitch, Robert E. Golf swing training apparatus. 3,703,294, 11-21-72, Cl. 273-191.00r.
Fitch, Stanley Frederick; and St. John, Dara Derrick Phiroz, to Fisons Limited. Distillation apparatus. 3,696,003, 10-3-72, Cl. 202-160.000.
Fitchburg Paper Company: *See—*
Long, Jack D.; and Richards, David, 3,663,353.
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Fitchman, Arthur E.; and Nathe, Raymond J., to Marathon Manufacturing Company. Cell terminal. 3,640,775, 2-8-72, Cl. 136-134.
Fites, Larry L.; Mann, Kingsley M.; and Utrecht, Karl A., to Upjohn Company, The. Cassette container. 3,702,132, 11-7-72, Cl. 206-1.00r.
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Alphin, John G.; and Fitner, John B., 3,695,014.
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Rohrbach, Royal E.; and Ray, Royce W., 3,678,773.
Fitting, Samuel E.; and Green, Gary W., to United Aircraft Corporation. Inlet noise silencer for a jet engine. 3,698,509, 10-17-72, Cl. 181-33.0ha.
Fitton, John Talbot; and Sutton, Alan, to Simon-Carves Limited. Apparatus for gaseous treatment of sized materials. 3,685,166, 8-22-72, Cl. 34-168.000.
Fitton, Peter: *See—*
Rick, Edward A.; McKeon, James E.; Fitton, Peter; and Argento, Benny J., 3,678,085.
Fitton, Peter; and McKeon, James Edward, to Union Carbide Corporation. Method of producing palladium-carbon bond compounds. 3,632,824, 1-4-72, Cl. 260-429.
Fitton, Peter; and Rick, Edward A., to Union Carbide Corporation. Halo(aryl)metal compounds and method of preparation. 3,674,825, 7-4-72, Cl. 260-429.00r.
Fitz, Edward. Lung exercising apparatus and method. 3,669,097, 6-13-72, Cl. 128-2.080.

Fitz, Edward J., to Eagle-Picher Industries, Inc. Manufacture of composite articles of moldable and nonmoldable materials. 3,651,190, 3-21-72, Cl. 264-153.

Fitz, Philip Jonn: *See—*
Robinson, Trevor Howard; Cameron, Alan William; and Fitz, Philip Jonn, 3,662,189.

Fitz Simmons, Vincent G., to United States of America, Navy. Moisture resistant dry film lubricants. 3,637,497, 1-25-72, Cl. 252-29.

Fitzgerald, David J.; and Soboczenski, Edward J., to Du Pont de Nemours, E. I., and Company. 1-(p-Cumyl)-3,3-dimethylureas as selective herbicide. 3,649,241, 3-14-72, Cl. 71-120.

Fitzgerald, Derek Lionel William. Non-slip fibreglass surface. 3,702,278, 11-7-72, Cl. 161-5.000.

Fitzgerald, Donald F.: *See—*
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Fitzgerald, Donald T.; and Campbell, Jack S. Plastic piston pump. 3,684,410, 8-15-72, Cl. 417-554.000.

Fitzgerald, Hugh J., to Ocean Pollution Control, Inc., mesne. Floating oil confining apparatus. 3,641,770, 2-15-72, Cl. 61-1.

Fitzgerald, Hugh J., to Ocean Pollution Control, Inc., mesne. Oil skimming method and apparatus. 3,653,510, 4-4-72, Cl. 210-83.

Fitzgerald, James E., to North American Rockwell Corporation. Petri dish including a chamber for a sterilized specimen-spreading element and process for using the petri dish. 3,677,904, 7-18-72, Cl. 195-103.5.

Fitzgerald, John M.; and James, Varnell L., to Boeing Company, The. Method and apparatus for providing a retractable multi-truck inline landing gear for heavy aircraft. 3,687,400, 8-29-72, Cl. 244-102.00r.

Fitzgerald, Leonard C., to Nospil Limited. Container closure. 3,635,380, 2-28-73, Cl. 222-484.

Fitzgerald, Maurice J., to Polaroid Corporation. Photosensitive emulsion comprising graft copolymer of amino alkyl acrylate. 3,681,079, 8-1-72, Cl. 96-114.000.

Fitzgerald, Thomas J.: *See—*
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Fitzgerald, Walter P., Jr., to LRC Research and Development Company, mesne. Cleaning composition and method of using same. 3,640,879, 2-8-72, Cl. 252-103.

Fitzgerald, Warren E.; Knudsen, John P.; and Brock, Jessie O., to Monsanto Company. Crimp reservation process. 3,671,619, 6-20-72, Cl. 264-168.000.

Fitzgerald, William M.B., to Johnson, Matthey & Mallory Limited. Manufacture of composite materials. 3,634,934, 1-18-72, Cl. 29-630.

Fitzgerald, William Vincent, Jr., to RCA Corporation. High frequency semiconductor device. 3,641,398, 2-8-72, Cl. 317-234.

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Fleming, Gerald J., to United States of America, Navy. Nitro-substituted epoxy polymers and the pyrolyzed products thereof. 3,634,036, 1-11-72, Cl. 23-209.2.
Fleming, Gerald J., to United States of America, Navy. Ablative epoxy resin composition and method of preparation. 3,644,222, 2-22-72, Cl. 260-2.
Fleming, Gordon R.; and Ovshinsky, Stanford R., to Energy Conversion Devices, Inc. Method of making a current controlling device including a VO_2 film. 3,647,664, 3-7-72, Cl. 204-192.
Fleming, Gordon R., to Energy Conversion Devices, Inc. Information display panel using amorphous semi-conductor layer adjacent optical display material. 3,659,149, 4-25-72, Cl. 315-153.
Fleming, James Evans; Lovell, Clarence A.; and Bandle, James M., to Air Land Systems Co. Radio communication system. 3,665,468, 5-23-72, Cl. 343-102.000.
Fleming, John W., Jr.; and McMullen, James Michael, to Industrial Nucleonics Corporation. Web sampling method and apparatus. 3,640,162, 2-8-72, Cl. 83-52.
Fleming, John W., Jr.; and McMullen, James Michael, to Industrial Nucleonics Corporation, mesne. Web sampling method and apparatus. 3,668,922, 6-13-72, Cl. 73-1.
Fleming, Kenneth C. Transportation system. 3,648,621, 3-14-72, Cl. 105-157.
Fleming, Patrick J. Novel production and waste treatment process for producing said product. 3,681,851, 8-8-72, Cl. 34-5.000.
Fleming, Philip F., to Gehl Company. Clutch mechanism having power disengagement. 3,643,767, 2-22-72, Cl. 192-21.
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Fleming, Robert B.; and Rosner, Carl H., to General Electric Company. Electrical leads for cryogenic devices. 3,654,377, 4-4-72, Cl. 174-15.

Fleming, Robert B., to General Electric Company. Ultra-low temperature thermal regenerator. 3,692,095, 9-19-72, Cl. 165-4.000.
Fleming, Robert F., Jr., to Sperry Rand Corporation. Lookout assist device. 3,685,009, 8-15-72, Cl. 340-16.00r.
Fleming, Robert L.: *See—*
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Fleming, Robert W.; Wenstrup, David L.; and Andrews, Edwin R., to Richardson-Merrell Inc. Treating viral infections with bis-basic ethers and thioethers of fluorenone and fluorene and pharmaceutical compositions of the same. 3,692,907, 9-19-72, Cl. 424-248000.
Fleming, Rodney A., to General Electric Company. Rewind and fast forward mechanism for tape transport. 3,642,230, 2-15-72, Cl. 242-201.
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B., to Allied Chemical Corporation. Process for spinning polyblend yarn. 3,658,981, 4-25-72, Cl. 264-349.
Fleming, William T.; and Munn, Alfred J., to Kidde, Walter, & Company, Inc. Inertia responsive apparatus for supplying fluid medium under pressure. 3,656,665, 4-18-72, Cl. 222-500.
Fleming, William T., to Kidde, Walter & Company, Inc. Hydraulic system accumulator arrangement. 3,669,151, 6-13-72, Cl. 138-31.000.
Flemming, John Peter Wilfred, to Standard Telephones and Cables Limited. System for processing signal data to obtain improved contour presentations on a cathode-ray display. 3,659,144, 4-25-72, Cl. 315-30.000.
Flensberg, Hermann; and Frey, Felix, to Ciba-Geigy AG. Process for the dyeing or printing of textile fibre mixtures using simultaneously cationic and anionic dyestuff. 3,706,524, 12-19-72, Cl. 8-21.000a.
Flesch, Friedrich: *See—*
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Querfeld, Hermann; Mattes, Heinz Otto; and Flesch, Friedrich, 3,640,043.
Flesch, Friedrich; and List, Hansjorg, to Hilti Aktiengesellschaft, mesne. Wall plug assembly, particularly for affixing facings. 3,662,644, 5-16-72, Cl. 85-69.
Flesch, Keith E., to Eckrich, Peter, & Sons, Inc. Weight controlled slicing system including gross error detecting means. 3,667,520, 6-6-72, Cl. 146-94.00r.
Flesch, Keith E., to Eckrich, Peter, & Sons, Inc. Weight controlled slicing system including variable synchronization control. 3,670,793, 6-20-72, Cl. 146-94.00r.
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Fletcher, Earl B.; and Lawson, Almon L. Bumper and spare tire assembly. 3,682,360, 8-8-72, Cl. 224-42.050.
Fletcher, Franklin I.: *See—*
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Fletcher, John Vincent; and Martin, Dennis, to Burmah Oil Trading Limited. Production of percarboxylic acids. 3,686,289, 8-22-72, Cl. 260-502.00r.
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Fletcher, Ralph A.; and Oliver, Joseph R., to Fletcher, H. E., Co. Method and apparatus for working mineral bodies and other materials. 3,655,243, 4-11-72, Cl. 299-15.
Fletcher, Ralph A.; and Oliver, Joseph R., to Fletcher, H. E., Co. Apparatus for continuously gauging and cutting stone in a guillotine type cutting machine. 3,677,258, 7-18-72, Cl. 125-23.00c.
Fletcher, Ralph Andrew, Jr., to Fletcher, H. E., Co. Method of fluid jet cutting for materials including rock and compositions containing rock aggregates. 3,704,914, 12-5-72, Cl. 299-14.000.
Fletcher, Robert B.; and Livermore, Kenneth W., to Minnesota Mining and Manufacturing Company. Composition comprising a foam-forming fluoro-aliphatic compound and a film-forming fluoroaliphatic compound. 3,661,776, 5-9-72, Cl. 252-3.
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Fletcher, Roy W.; and Forte, Anthony D., to Union Special Machine Company. High speed blindstitch sewing machine. 3,661,104, 5-9-72, Cl. 112-178.
Fletcher, Roy W.; and Forte, Anthony D., to Union Special Machine Company. Blindstitch sewing machine. 3,677,208, 7-18-72, Cl. 112-178.000.
Fletcher, Stewart G., to Latrobe Steel Company. Fully dense consolidated-powder superalloys. 3,649,256, 3-14-72, Cl. 75-171.
Fletcher, Stewart G., to Latrobe Steel Company. Fully dense consolidated-powder superalloys. 3,649,257, 3-14-72, Cl. 75-171.
Fletcher, Stewart G., to Latrobe Steel Company. Fully dense consolidated-powder superalloys. 3,681,061, 8-1-72, Cl. 75-171.000.
Fletcher, Stewart G.; and Haswell, Walter T., Jr., to Latrobe Steel Company. Ferrous alloys and abrasion resistant articles thereof. 3,692,515, 9-19-72, Cl. 75-126.00a.
Fletcher, William E.; and Rosseay, Leon B., to Modicon Corporation. Digital computer-industrial controller system and apparatus. 3,686,639, 8-22-72, Cl. 340-172.500.
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Flett, Alexander Campbell, to Imperial Chemical Industries Limited. Lubricating composition. 3,644,143, 2-22-72, Cl. 117-138.8.
Fleuret, Louis; and Trepaez, Jean, to Uniroyal Englebert France S.A. Process for manufacturing belted tires. 3,677,852, 7-18-72, Cl. 156-127.000.
Fleurquin, Yves; and Bruckmann, Andre, to La Cellophane. Process for the preparation of iridescent films and filaments and the product so produced. 3,698,930, 10-17-72, Cl. 117-45.000.
Fleury, Camille. Snowmobile protective device. 3,680,882, 8-1-72, Cl. 280-150.000.
Fleury, Jacques, to Societe Anonyme Automobiles Citroen. Vehicle lighting systems. 3,643,082, 2-15-72, Cl. 240-8.25.
Fleury, Jacques, to Societe Anonyme Automobiles Citroen. Hydrostatic transmissions. 3,656,299, 4-18-72, Cl. 60-53.
Fleury, Jacques. Automotive hydroelastic suspension with level correction. 3,690,688, 9-12-72, Cl. 280-6.00h.
Fleury, Jean; and Pinot, Jean, to Regie Nationale des Usines Renault and Automobiles Peugeot. Automatic regulation of electrochemical machining systems. 3,673,072, 6-27-72, Cl. 204-224.000.
Fleury, Jean, to Regie Nationale des Usines Renault. Machine for electrochemically machining workpieces. 3,677,928, 7-18-72, Cl. 204-224.000.
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Flick, Kenneth E., to Jewel Manufacturing Company. Joint construction. 3,661,411, 5-9-72, Cl. 287-103.
Flick, Kenneth E., to Jewel Manufacturing Company. Scaffolding clamp. 3,677,582, 7-18-72, Cl. 287-49.000.
Flick, Kurt; and Frankus, Ernst, to Chemie Grunenthal G.m.b.H. 1-(m-Substituted phenyl)-2-aminomethyl cyclohexanols. 3,652,589, 3-28-72, Cl. 260-326.5.
Flick, Robert H.; Thomas, Glenn R.; and Majcher, John, to Westinghouse Electric Corporation. Circuit breaker with manual trip structure. 3,657,672, 4-18-72, Cl. 335-21.
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Flinders, Michael; Gardner, Peter Lycett; Hallett, Michael Henry; Jones, John W.; Minshull, John Francis; and Taylor, Keith Graham, to International Business Machines Corporation. Error detecting circuitry. 3,646,516, 2-29-72, Cl. 340-146.1.
Fling, Thomas A.; and Fling, William F. Liquid level measuring device. 3,638,492, 2-1-72, Cl. 73-315.
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Flint, Hans Gerhard; and Neitzel, Ulrich E. G., to Great Salt Lake Minerals and Chemicals Corporation. Process for removing sulfate from magnesium chloride brines contaminated therewith. 3,679,376, 7-25-72, Cl. 23-304.000.
Flint, Hyland C. Seat assembly. 3,649,077, 3-14-72, Cl. 297-456.
Flint, Hyland C. Seat assembly with coplanar parallelogram linkage. 3,694,027, 9-26-72, Cl. 297-309.000.
Flint, John Anthony; and Blake, Graham John, to Imperial Chemical Industries Limited. Emulsion polymerisation of vinyl chloride. 3,699,068, 10-17-72, Cl. 260-29.600.
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Flint, Thomas F., to Sherwin-Williams Company, The. Coating composition including isocyanate-modified polyester and chlorinated rubber. 3,645,933, 2-29-72, Cl. 260-3.3.
Flint, Thomas J., to Xerox Corporation. Method for developing xerographic images. 3,645,770, 2-29-72, Cl. 117-17.5.
Flint, Walker H.; and Chappell, Charles J., to Caterpillar Tractor Company. Safety lock for scraper apron. 3,634,955, 1-18-72, Cl. 37-126.
Flint, William T.; and Tibbetts, George C. Transducers having piezoelectric struts. 3,697,790, 10-10-72, Cl. 310-8.300.
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Flipot, Alfred J. P., to Belgonucleaire S.A. Controlled calcination of agglomerated nuclear fuel prior to pelletizing and sintering. 3,692,887, 9-19-72, Cl. 264-.500.
Flippen, Floyd F.: *See—*
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Floehr, Walter L. Automatic hopper gate lock. 3,683,820, 8-15-72, Cl. 105-282.00r.
Floessel, Carl-Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Gas-blast circuit breaker. 3,686,453, 8-22-72, Cl. 200-148.00b.
Floessel, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Compressed gas switch having columnar construction. 3,678,234, 7-18-72, Cl. 200-148.00b.
Flogel, Ernst, to Franck'sche Eisenwerke AG. Water softener and a device combined therewith. 3,669,270, 6-13-72, Cl. 210-123.
Flohr, William P., Jr.; and Boller, John A., to Landis Tool Company, mesne. Safety device for precision rotary location of crank fixtures in a machine tool. 3,646,710, 3-7-72, Cl. 51-105.
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Florance, Douglas A.; and Nordholm, Lloyd P. Apparatus and method for determining conductivity of wiring installations. 3,651,399, 3-21-72, Cl. 324-51.
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Florek, Louis A. Fishing rig. 3,680,246, 8-1-72, Cl. 43-42.190.
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Florent, Jean; Lunel, Jean; and Renaut, Jacques, to Rhone-Poulenc S.A. Process for the preparation of L-beta-(3, 4-dihydroxyphenyl)-alpha-alanine by fermentation. 3,703,439, 11-21-72, Cl. 195-29.000.
Flores, Mary Alice, to Bard, C. R., Inc., mesne. Ligature and applicator therefor. 3,665,926, 5-30-72, Cl. 128-326.
Flores, Ralph; and Thompson, Herbert E., to International Business Machines Corporation. Magnetic record disk cover. 3,668,658, 6-6-72, Cl. 340-174.1.
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Floria, Joseph Angelo, to Du Pont de Nemours, E. I., and Company. 1,1,1,3,3,3-Hexafluoro-2-propanolC1 to C4 alkanol complexes. 3,691,092, 9-12-72, Cl. 252-364.000.
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Florian, Berkeley Julian; and Florian, Berkeley Jay. Foldable lawn and garden cart. 3,690,692, 9-12-72, Cl. 280-36.00c.

Florian, Jaroslav; and Binovec, Ladislav, to Vyzkumny ustav pozemnich staveb. Collapsible belt conveyor. 3,664,488, 5-23-72, Cl. 198-139.
Florian, Raymond J. Golf putter construction. 3,679,207, 7-25-72, Cl. 273-80.00a.
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Florjancic, Peter. Closure apparatus. 3,646,853, 3-7-72, Cl. 92-76.
Florjancic, Peter. Injection moulded chain, especially plastic chain. 3,662,539, 5-16-72, Cl. 59-80.
Florjancic, Peter. Closure apparatus. 3,691,913, 9-19-72, Cl. 92-76.000.
Florschutz, Franz. People's helicopter. 3,640,488, 2-8-72, Cl. 244-17.19.
Florsheim, Leonard S., Jr.; Lieberman, David A.; Archer, Harold B.; and Nothmann, Gerhard A., to Enivar Enterprises, Inc., mesne. Automatic density setting apparatus. 3,640,623, 2-8-72, Cl. 355-67.
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Flory, Robert Earl; and Spong, Fred William, to RCA Corporation. System and filter for encoding color images onto black and white film. 3,637,925, 1-25-72, Cl. 178-5.4.
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Flournoy, Norman E.; Dancy, Julian H.; and Trippet, Raymond, to Texaco Inc. Oil burner. 3,656,692, 4-18-72, Cl. 239-405.
Flournoy, Norman E.; Morrison, John A.; Dancy, Julian H.; and Trippet, Raymond, to Texaco Inc. Oil burner. 3,664,804, 5-23-72, Cl. 431-183.
Flournoy, Norman E., to Texaco Inc. Oil burner. 3,667,894, 6-6-72, Cl. 431-114.
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Flournoy, Norman E.; Dancy, Julian H.; and Trippet, Raymond, to Texaco Inc. Oil burner. 3,694,136, 9-26-72, Cl. 431-265.000.
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Fogelman, Edward I., to Diamond Shamrock Corporation. Expandable electrodes. 3,674,676, 7-4-72, Cl. 204-286.000.
Fogg, Daniel A., to Gerber Products Company. Product bagging apparatus. 3,691,716, 9-19-72, Cl. 53-59.00w.
Fogg, Lloyd C.: *See—*
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Foggo, James Douglas, to French, Thomas, & Sons Limited. Apparatus for producing curtains. 3,649,412, 3-14-72, Cl. 156-443.
Foggo, James Douglas, to Thomas French & Sons Limited. Curtains. 3,681,158, 8-1-72, Cl. 156-70.000.
Fogiel, Adolf W., to Du Pont de Nemours, E. I., and Company. Preparation of open-cell polyurethane foams in the presence of 2-substituted 1,1,3,3-tetralkyl guandines and an acid. 3,663,465, 5-16-72, Cl. 260-2.5.
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Fogiel, Max. Intrusion and fire detection system. 3,634,846, 1-11-72, Cl. 340-274.
Fogle, Mark V.; and Horger, Georg, to National Cash Register Company, The. Encapsulation process by complex coacervation using inorganic polyphosphates and organic hydrophilic polymeric material. 3,697,437, 10-10-72, Cl. 252-316.000.
Fogle, William A., Jr.; Jason, Joseph B.; and Head, Richard A. Steamer and soda-dispensing system. 3,677,173, 7-18-72, Cl. 99-357.000.
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Foglesong, Rosalina S.; and Jabloner, Harold, to Hercules Incorporated. Preparation of impact resistant styrene polymers. 3,632,675, 1-4-72, Cl. 260-876.
Foglia, Andrew J.; and Tinger, Harold G., to Mobil Oil Corporation. Polymer blend compositions comprising polypropylene and ethylene/butene copolymer. 3,634,552, 1-11-72, Cl. 260-897.
Foglia, Andrew J.; and Tinger, Harold G., to Mobil Oil Corporation. Heat shrinkable films of polypropylene and an ethylene/butene copolymer. 3,634,553, 1-11-72, Cl. 260-897.
Fogman, Carl Bertil; Nelson, Hugh Wharton; and Tsao, Utah, said Nelson assor. to Combustion Engineering, Inc. and said Fogman and Tsao assors. to Lummus Company, The. Pollution controlled polysulfide recovery process. 3,650,888, 3-21-72, Cl. 162-30.
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Fogt, Thomas H., to General Motors Corporation. Storage receptacle and agitator for refrigerator ice making machines. 3,659,827, 5-2-72, Cl. 259-110.
Fogt, Thomas H.; Steiner, William R.; and Murphy, John M., to General Motors Corporation. Flexible plastic ice tray and storage container. 3,670,523, 6-20-72, Cl. 62-344.000.
Fogt, Thomas H., to General Motors Corporation. Ejecting receptacle for plastic ice tray. 3,696,635, 10-10-72, Cl. 62-344.000.
Fohl, Artur, to Rems-Werk Christian Foll & Sohne. Apparatus for machining pipes and the like. 3,648,313, 3-14-72, Cl. 10-96.
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Foitl, Verena R.; and Traber, Walter, to Ciba-Geigy Corporation. Process for the production of 1-formyl-3 nitro-azacyclo-alkan-2-ones. 3,687,939, 8-29-72, Cl. 260-239.30r.
Foitl, Verena R.; and Traber, Walter, to Ciba-Geigy Corporation. Process for the production of 3-amino-azacycloheptan-2-one. 3,687,940, 8-29-72, Cl. 260-239.30r.
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Folden, Virgil A., Jr.; and Miller, Johny, Jr., to United States of America, Navy. Undersea pressure sensitive actuator. 3,669,311, 6-13-72, Cl. 222-3.000.
Foldes, Gabriel F.; Neve, Peter W.; and Corbridge, Peter J., to Foster Wheeler Corporation. Fluidised bed burner control. 3,659,559, 5-2-72, Cl. 122-4.
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Foley, Charles F.; McCarthy, Charles D.; and Rabens, Neil W. Pan puzzles. 3,647,218, 3-7-72, Cl. 273-157.
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Foley, David. Electrical switches with indicator means. 3,651,295, 3-21-72, Cl. 200-167.
Foley, David, to Lucas, Joseph, (Industries) Limited. Mounting means for switches instruments or the like. 3,662,850, 5-16-72, Cl. 180-90.
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Foley, Edward F., Jr.; Tsai, Shan-Pu; and Zatorsky, William A., to Du Pont de Nemours, E. I., and Company, mesne. Catalyst solution for electroless plating on nonconductors. 3,704,156, 11-28-72, Cl. 117-47.00a.
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Foley, John J.; Satas, Wallace J.; and Konkel, Joseph, to Data Printer Corporation. Ribbon control apparatus for high speed printers. 3,677,176, 7-18-72, Cl. 101-96.000.
Foley, John T., to Witco Chemical Corporation. Emulsifier composition. 3,654,177, 4-4-72, Cl. 252-356.
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Foley, Richard G.; and Murray, James E., to Harris-Intertype Corporation. Direction reversing control for a machine control system. 3,671,827, 6-20-72, Cl. 318-162.000.
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Folk, Kenneth Foster, to AMP Incorporated. Machine for assembling a connecting device to an electrical device. 3,641,650, 2-15-72, Cl. 29-203.
Folk, Kenneth Foster, to AMP Incorporated. Electrical bobbin with terminals. 3,701,961, 10-31-72, Cl. 336-192.000.
Folk, Ralph D. Semi-mounted mower for tractors. 3,650,098, 3-21-72, Cl. 56-15.5.
Folke, Carl Tage Evert, to AB Vibrasug. Vaporizer for disinfection chambers. 3,637,977, 1-25-72, Cl. 219-272.
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Folson, Henry J.; Boxley, Denis V.; Kingsbury, James; Kraitzer, Shlomo; Soulakis, George; and Whittington, Jimmie L., to Mattel, Inc. Remotely controlled wheeled toy vehicle system. 3,706,153, 12-19-72, Cl. 46-202.000.
Foltz, James W., to Motorola, Inc. Binary flip-flop employing insulated gate field effect transistors and suitable for cascaded frequency divider operation. 3,679,913, 7-25-72, Cl. 307-279.000.
Foltz, Ramon Doyle, to Eaton Yale & Towne, Inc. Safety apparatus. 3,632,136, 1-4-72, Cl. 280-150.
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Foltz, Thomas R.; Hegarty, Gerald R.; Hopkins, Ervin W.; and Wilcox, Joseph C., to Armour and Company. Sausage maturity measuring device. 3,696,662, 10-10-72, Cl. 73-81.000.
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Fors, Juan Rovira. Panty type garment and method of knitting the same on a flat knitting machine. 3,654,779, 4-11-72, Cl. 66-171.
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Forshee, Lloyd T. Auto and aircraft safety liners. 3,638,992, 2-1-72, Cl. 296-39.
Forslind, Paul A. Device for producing ionized air. 3,665,248, 5-23-72, Cl. 317-4.
Forslund, Erik Torsten, to Ostbergs Fabriks AB. Cutting blade for cutting tree trunks. 3,631,906, 1-4-72, Cl. 144-34.
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Forsstrom, Bo Gosta, to LKB-Produkter AB. Microtome feed mechanism. 3,691,889, 9-19-72, Cl. 83-401.000.
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Forst, Donald L.; and Schrengauer, Edwin B., to Babcock & Wilcox Company, The. Gastight damper having an inflatable seal. 3,638,674, 2-1-72, Cl. 137-375.
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Forste, Walter; Schreiber, Joachim; and Stark, Hans, to Veb Elektrogeratewerk Suhl. Elastic contacts for carbon collector rings having insulating bodies in electric motors. 3,636,394, 1-18-72, Cl. 310-232.
Forste, Walter; Teuschler, Hans-Joachim; and Schreiber, Joachim, to VVB Elektrische Konsumguter. Collector ring bodies for electric motors. 3,688,142, 8-29-72, Cl. 310-232.000.
Forsten, Irving; and Buckley, William J., Jr., to United States of America, Army. Silent hand weapon. 3,665,803, 5-30-72, Cl. 89-7.000.
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Forster, Franz; Krusche, Alfred; and Hantelmann, Gunter, to Linde Aktiengesellschaft. Pressure-regulating valve. 3,698,415, 10-17-72, Cl. 137-102.000.
Forster, Friedrich M. O. Nondestructive testing system. 3,646,789, 3-7-72, Cl. 72-10.
Forster, Friedrich M. O. Leakage field flaw detector with current energization with means to control current energization by probe scan. 3,656,054, 4-11-72, Cl. 324-37.
Forster, Friedrich M. O. Apparatus for repairing defects in metallic workpieces by automatic means. 3,676,959, 7-18-72, Cl. 51-165.00r.
Forster, Friedrich M. O. Eddy current system for testing tubes for defects, eccentricity, and wall thickness. 3,693,075, 9-19-72, Cl. 324-40.000.
Forster, Hans-Joachim M.; and Katz, Klaus, to Daimler-Benz Aktiengesellschaft. Servo-steering system for motor vehicles. 3,687,014, 8-29-72, Cl. 92-33.000.
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Forster, Mark. Wire cutting gauge. 3,675,335, 7-11-72, Cl. 33-168.00r.
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Forsting, Bernard; Hellriegel, Edmund; and Pfadenhauer, Dieter, to Ford Motor Company. Side protection device for motor vehicles. 3,700,076, 10-24-72, Cl. 188-1.00c.
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Forsyth, George E., to Rohm & Haas Company. Flame resistant acrylic sheet containing isobornyl acrylate or methacrylate. 3,634,554, 1-11-72, Cl. 260-901.
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Fort, Edward F., to International Harvester Company. Carburetor with fuel shut-off means having a fuel-air ratio adjustment mechanism. 3,669,083, 6-13-72, Cl. 123-97.00b.
Fort, Emil M., to Westinghouse Electric Corporation. Electrical apparatus with corona suppression means. 3,679,925, 7-25-72, Cl. 310-196.000.
Fort, Godfrey, to Imperial Chemical Industries Limited. Nitrogen containing polymers. 3,652,629, 3-28-72, Cl. 260-448.2.
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Fort, Larry W.; and Marshall, Connie T. Apparatus to protect a phase-locked-loop against loss of synchronizing signal. 3,688,210, 8-29-72, Cl. 331-1.00a.
Fort, Larry W.; and Marshall, Connie T., to Telex Computer Products, Inc. Synchronizing a phase-locked loop from phase encoded signals. 3,697,884, 10-10-72, Cl. 331-1.00a.
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Forterre, Gerard E., to Lignes Telegraphiques et Telephoniques. Microstrip ring-shaped resonators and microwave generators using the same. 3,702,445, 11-7-72, Cl. 331-107.00g.
Fortescue, Peter; and Shanstrom, Raymond T., to Gulf Oil Corporation, mesne. Means for supporting fissile material in a nuclear reactor. 3,703,437, 11-21-72, Cl. 176-87.000.
Fortier, Andre. Fluid devices for stabilizing the position of a moving element. 3,697,142, 10-10-72, Cl. 308-5.000.
Fortier, Jean R.; and Wrobel, Donald P., to Federal Pacific Electric Company. Range limiter for a thermostat. 3,670,284, 6-13-72, Cl. 337-360.000.
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Fortini, Jack G.; Blair, Walter A.; and Grodsky, Gerold M., to Blair/Johnson, Inc. Simple protein and method of deriving it from liver using an aqueous solution of a divalent metal ion. 3,701,768, 10-31-72, Cl. 260-112.00r.
Fortino, Samuel, to Gem Electric Mfg. Co., Inc. Electric flasher. 3,681,730, 8-1-72, Cl. 337-92.000.
Fortis, Luis R. Pagan. Centrifugal pumps. 3,689,931, 9-5-72, Cl. 415-206.000.
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Fortner, William D., to Cavins Co., The. Torque or motion responsive apparatus. 3,675,751, 7-11-72, Cl. 192-150.000.
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Fortune, William S. Smoking habit-breaking aid apparatus. 3,674,037, 7-4-72, Cl. 131-198.00a.
Fortune, William S. Automatic tool system and method for control. 3,676,761, 7-11-72, Cl. 318-574.000.
Fortunski, Anthony C., to Fargo Machine & Tool Company. Plow tool. 3,663,120, 5-16-72, Cl. 416-224.
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Foss, Rudolph G. Tapering tool for fiberglass pipe. 3,683,725, 8-15-72, Cl. 82-4.00c.
Foss, Rudolph G., to Unique Industries, Inc. Tapering tool for tubular articles. 3,704,639, 12-5-72, Cl. 82-4.00c.
Foss, Warren M. Titanium dioxide pigment composition and a method for making the same. 3,649,322, 3-14-72, Cl. 106-300.

Foss, Warren M., to N L Industries, Inc. Photoconductive titanium dioxide material. 3,698,894, 10-17-72, Cl. 96-1.500.
Fossel, Eric T., to Unimed, Inc. Method of improving microcirculation. 3,636,225, 1-18-72, Cl. 424-273.
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Foster, Alan, to International Computers Limited. Magnetic recording systems. 3,665,484, 5-23-72, Cl. 346-74.
Foster, Alan, to U.S. Philips Corporation. Bilateral, gate-controlled semiconductor device. 3,696,273, 10-3-72, Cl. 317-235.00r.
Foster, Alden W. Method of transporting oil or gas in frozen tundra. 3,674,086, 7-4-72, Cl. 165-1.000.
Foster, Bennie J.; Gutowski, Gerald E.; and Hatfield, Lowell D., to Lilly, Eli, and Company. Process for preparing cepham compounds. 3,668,202, 6-6-72, Cl. 260-243.00c.
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Foster, Daniel S., to Gale, W. D., Inc. Air compression equipment for therapeutic use. 3,646,934, 3-7-72, Cl. 128-212.
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Foster, James L., Jr., to Tartan Industries, Inc. Drag bits. 3,672,455, 6-27-72, Cl. 175-412.000.
Foster, John A., to Clark, J. L., Manufacturing Co. Plastic cover with hinged closure and molding dies therefor. 3,675,812, 7-11-72, Cl. 220-31.00s.
Foster, John A., to J. L. Manufacturing Co. Apparatus for converting molten thermoplastic in cup-like articles. 3,692,456, 9-19-72, Cl. 425-412.000.
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Foster, Keith, to A. F. Hydraulics Limited. Power transmission systems. 3,667,224, 6-6-72, Cl. 60-51.
Foster, Kenneth M.; and Lofredo, Antony, to Airco/Boc Cryogenic Plants Corporation. Process for helium recovery and purification. 3,653,220, 4-4-72, Cl. 62-22.
Foster, Larry R.; and Cogan, Jerry A., Jr., to Deering Milliken Research Corporation. Fugitively colored solid materials. 3,634,131, 1-11-72, Cl. 117-161.
Foster, Laverne H.; Fox, Robert M.; and Webber, Charles H., to General Motors Corporation. Vehicle body roof structure. 3,635,519, 1-18-72, Cl. 296-137.
Foster, Lawrence H. Method for cooking foods using infrared radiation. 3,682,643, 8-8-72, Cl. 99-1.000.
Foster, Leigh Curtis, to Zenith Radio Corporation. High-resolution linear optical scanning system with traveling wave acoustic lens. 3,676,592, 7-11-72, Cl. 178-7.600.
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Foster, Merrill J., to Marine Industries, Incorporated. Liquid level switch. 3,657,556, 4-18-72, Cl. 307-118.
Foster, Newton C., to Westinghouse Electric Corporation. Half ester of an epoxy resin and unsaturated dicarboxylic acid anhydride. 3,657,196, 4-18-72, Cl. 260-78.4.
Foster, Newton C., to Westinghouse Electric Corporation. Bonding insulation material with half ester of an epoxy resin and unsaturated dicarboxylic acid anhydride composition. 3,686,045, 8-22-72, Cl. 156-53.000.
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Foster, Raymond O. Method and article for detecting the fertile period. 3,699,005, 10-17-72, Cl. 195-103.50r.
Foster, Richard E. Converting rotary motion into unidirectional motion. 3,653,269, 4-4-72, Cl. 74-84.
Foster, Richard Gregory; Joy, David Richard; Hepworth, Paul; and Dart, Edward Charles, to Imperial Chemical Industries Limited. Production of polycyclic hydrocarbons. 3,641,173, 2-8-72, Cl. 260-666.
Foster, Richard Gregory; and Joy, David Richard, to Imperial Chemical Industries Limited. Production of polycyclic hydrocarbons. 3,642,923, 2-15-72, Cl. 260-666.
Foster, Richard Gregory; and Hepworth, Paul, to Imperial Chemical Industries Limited. Polycyclic dienes. 3,646,232, 2-29-72, Cl. 260-666.
Foster, Richard Gregory; and Hepworth, Paul, to Imperial Chemical Industries Limited. Vulcanisable copolymers. 3,660,363, 5-2-72, Cl. 260-80.78.
Foster, Richard Greogry: *See—*
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Foster, Richard N.: *See—*
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Foster, Richard N. Process for producing propylene. 3,647,657, 3-7-72, Cl. 204-168.
Foster, Richard N.; and Butt, John B., said Butt assor. to said Foster, Richard N. Enhancing reaction rates. 3,674,666, 7-4-72, Cl. 204-164.000.
Foster, Richard W.: *See—*
Kossen, Dale J.; Foster, Richard W.; and Benson, Charles R., 3,641,396.
Foster, Robert D.: *See—*

Ketchbaw, Thomas E.; Foster, Robert D.; and Arvanetakis, Kiryako, 3,691,385.
Foster, Robert D. Method for processing eggs. 3,684,531, 8-15-72, Cl. 99-196.000.
Foster, Ronald L. Adjustable boot jack. 3,652,009, 3-28-72, Cl. 223-116.
Foster, Roy Vivian: *See*—
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Foster, S. Harold; and Walker, Wendell C., to General Electric Company. Iron with overtemperature protection means. 3,665,152, 5-23-72, Cl. 219-253.
Foster, Seth: *See*—
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Foster, Theodore T.: *See*—
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Foster, Thomas E.: *See*—
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Foster, Thomas V.; and Nebelung, Herman H., to Emhart Corporation. Holding and cooling device for glassware molds. 3,653,870, 4-4-72, Cl. 65-356.
Foster, Thomas W.; and Schafer, George, to Fibreboard Corporation. Carton end closure. 3,662,945, 5-16-72, Cl. 229-38.000.
Foster, Vincent F., to Inductosyn Corporation. Multi-layer polyphase winding member and transformer. 3,668,587, 6-6-72, Cl. 336-123.
Foster, Vincent F.; and Schreitz, Robert A., to Inductosyn Corporation. Tensioning device for position measuring transformer. 3,696,667, 10-10-72, Cl. 73-143.000.
Foster, Walter E.: *See*—
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Bell, Alan, 3,687,115.
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Bow, William J.; and Pollard, Richard J., 3,705,494.
Burcin, Robert J.; Johnson, Orville L.; and Mouton, Rene P., 3,682,501.
Clarke, Kenneth W.; Kinnsch, Donald L.; and McClay, Archibald R., 3,657,911.
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Romanowski, Chester J.; and Guido, Paul V., 3,638,034.
Stevens, William D., 3,662,716.
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Wadiak, Michael; and Higham, George T., 3,643,701.
Willis, Cullie B., Jr., 3,701,341.
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Foster, William Rees; and Brown, Joseph Patrick, to Monsanto Chemicals Limited. Flame-retardant resin compositions and method of making same. 3,639,305, 2-1-72, Cl. 260-2.5.
Foster-Miller Associates, Inc.: *See*—
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Foster-Pegg, Richard W., to Struthers Energy Systems, Inc. Gas liquifaction. 3,672,179, 6-27-72, Cl. 62-5.000.
Foster-Pegg, Richard W. Jet engine air compressor. 3,705,491, 12-12-72, Cl. 60-39.550.
Foster-Pegg, Richard Wigmore, to Cities Service Company. Carbon black production process. 3,663,172, 5-16-72, Cl. 23-209.400.
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Baker, Elton N., 3,657,983.
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Fotland, Richard A.; Straughan, Virgil E.; and Cameron, John, to Horizons Incorporated. Copying process. 3,658,533, 4-25-72, Cl. 96-48.000.
Foto-Mem, Inc.: *See*—
Eng, Albert, 3,679,304.
Laura, James F.; and Eng, Albert, 3,689,894.
Foucar, Harry G., to United States Steel Corporation. Method for the production of high purity, high pressure carbon dioxide from a mixture of low pressure mixed acidic gas. 3,643,451, 2-22-72, Cl. 62-28.
Foucauli, Pierre. Mixing plant for preparing materials comprising coated elements. 3,693,942, 9-26-72, Cl. 259-2.000.
Fouche, Jean: *See*—
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Fouche, Jean Clement Louis, to Rhone-Poulenc S.A. 10-(Aminoalkyl) dibenzo [a,d] cycloheptadienes and the salts thereof. 3,658,815, 4-25-72, Cl. 260-253.
Fouche, Yvon; and Dansac, Jean, to Compagnie Internationale pour l'Informatique. Symbol display system for messages received in signal form. 3,656,147, 4-11-72, Cl. 340-324.
Fouche, Yvon Pierre Jean: *See*—
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Fougeray, Jean Henri Roger; and Giffard, Louis Henri Jules. Dipping form for making skin-type articles from plastic material. 3,679,342, 7-25-72, Cl. 425-275.000.
Fougere, Guy L.; Rothery, John L.; and Miller, Raymond H., to Federal Products Corporation, mesne. Physical displacement measuring system utilizing impedance changing the frequency of an oscillatory circuit. 3,670,243, 6-13-72, Cl. 324-57.00r.
Fougere, Guy L. Coin selector utilizing a coin impeller. 3,701,405, 10-31-72, Cl. 194-101.000.
Foulard, Jean; and Galey, Jean, to L'Air Liguide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Treatment of molten metal by injection of gas. 3,689,048, 9-5-72, Cl. 266-34.00t.
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Foulkes, John D.; and Bender, Warren G., to Wescom, Inc., mesne. Tone disabler. 3,647,993, 3-7-72, Cl. 179-170.2.
Foults, Jonathan Asa, to Scovill Manufacturing Company. Filling and valving assembly for radiator system. 3,700,166, 10-24-72, Cl. 236-34.500.
Fountain City Safety Corporation: *See*—
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Fourneron, Aime. Exercising apparatus. 3,672,361, 6-27-72, Cl. 128-71.000.
Fournier, Daniel; and Strang, Urho A., to Dann Bee Corporation. Article testing apparatus. 3,664,195, 5-23-72, Cl. 73-432.
Fournier, Eugene. Filter having a flexible wall for filtering liquids. 3,670,898, 6-20-72, Cl. 210-356.000.
Fournier, Gilbert C. F.: *See*—
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Fowell, Ian Gordon George, to Cooper Bros., (Bordesley) Limited. Container carrying trucks. 3,631,998, 1-4-72, Cl. 214-313.
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Fowler, Donald W., to Textiles, Inc. Overedging apparatus. 3,669,046, 6-13-72, Cl. 112-121.150.
Fowler, Dwight W. Sewer tap. 3,663,042, 5-16-72, Cl. 285-199.
Fowler, Eliot Patrick; and Greaves, Richard William, to United Kingdom Atomic Energy Authority. Logarithmic converter. 3,683,205, 8-8-72, Cl. 307-230.000.
Fowler, Eliot Patrick, to United Kingdom Atomic Energy Authority. Apparatus for measuring the value of an alternating electrical signal of any wave form. 3,683,275, 8-8-72, Cl. 324-115.000.
Fowler, Elmer, to Barnes, Malcolm L. Walker which has a rocking movement. 3,633,906, 1-11-72, Cl. 272-70.3.
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Fowler, Grady C.; and Venable, Ben F. Automatic egg collection system for poultry nests. 3,650,246, 3-21-72, Cl. 119-48.
Fowler, John H.; and Barnett, Robert D., to Rockwell Manufacturing Company. Valve. 3,696,831, 10-10-72, Cl. 137-246.120.
Fowler, John Hyde: *See—*
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Fowler, Leslie E., to Beckman Instruments, Inc. Rectilinear recording arrangement for direct writing oscillographs. 3,683,410, 8-8-72, Cl. 346-117.00a.
Fowler, Neal V., Jr.; Gallagher, Arthur P.; and Chance, Calvin L., Jr., to Vibration & Noise Engineering Corporation. Blow down quieter. 3,702,644, 11-14-72, Cl. 181-50.000.
Fowler, Raymond L.; Parken, Edward W.; Robbins, Larry H.; and Woods, Joe W., to International Business Machines Corporation. Magnetic card transport. 3,666,262, 5-30-72, Cl. 271-52.000.
Fowler, Raymond L., to International Business Machines Corporation. Illumination system. 3,669,538, 6-13-72, Cl. 355-67.000.
Fowler, Reginald Henry, to Xerox Corporation. Reciprocating system for recording assembly. 3,643,263, 2-15-72, Cl. 346-139.
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Fowler, Richard Payson, to Johns-Manville Corporation. Separation of nickel from asbestos ore. 3,645,454, 2-29-72, Cl. 241-4.
Fowler, Richard Payson, to Johns-Manville Corporation. Electrolytic process and apparatus for recovering nickel from asbestos ore. 3,677,919, 7-18-72, Cl. 204-113.000.
Fowler, Richard T., to Girling Limited. Vehicle wheel brakes and locking means therefor. 3,682,280, 8-8-72, Cl. 188-265.000.
Fowler, Robert R. Magnetic disk memory spindle assembly. 3,670,315, 6-13-72, Cl. 340-174.10c.
Fowler, Stanley B., to General Motors Corporation. Vehicle seat latch. 3,674,309, 7-4-72, Cl. 297-379.000.
Fowler, T. Kenneth: *See—*
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Fox, Charles H.: *See—*
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Brantly, Thomas B.; Contois, Lawrence E.; and Fox, Charles J., 3,658,520.
Looker, Jerome J.; and Fox, Charles J., 3,677,752.
Fox, Charles J.; and Johnson, Arthur L., to Eastman Kodak Company. Electrophotographic sensitizers. 3,705,913, 12-12-72, Cl. 260-391.000.
Fox, Charles J.; and Light, William A., to Eastman Kodak Company. Photoconductive composition. 3,706,554, 12-19-72, Cl. 96-1.600.
Fox, Daniel W.; and Wambach, Allen, to General Electric Company. Plastic cast. 3,683,903, 8-15-72, Cl. 128-90.000.
Fox, David A., to Westinghouse Electric Corporation. Tripping circuit for static switches. 3,697,813, 10-10-72, Cl. 317-36.0td.
Fox, David Brian; and Gintz, Francis Paul, to BP Chemicals (U.K.) Limited. Film forming copolymers of ethylene, vinyl chloride and a vinyl ester and their production. 3,632,542, 1-4-72, Cl. 260-29.6.
Fox, David J.; King, Jane E.; and Nardelli, Orazio J., to Honeywell Information Systems, Inc. Process for data communication between data processing. 3,670,306, 6-13-72, Cl. 340-172.500.
Fox, Dean H., to Hathaway Instruments, Inc. Push button switch. 3,652,963, 3-28-72, Cl. 335-205.
Fox, Duane C., to North American Rockwell Corporation. Signal compression and expansion system using a memory. 3,662,347, 5-9-72, Cl. 340-172.500.
Fox, Fred K. Rotary drilling tool. 3,656,565, 4-18-72, Cl. 175-323.
Fox, Gerald B.; Dudley, Wray E.; and Athey, Stuart E., to Hobart Manufacturing Company, The. Module treating apparatus. 3,706,317, 12-19-72, Cl. 134-57.0dl.
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Fox, Homer M.; Ruehlen, Forrest N.; and Williams, Keith A., to Phillips Petroleum Company. Process for electrochemical conversion. 3,660,255, 5-2-72, Cl. 204-59.
Fox, Homer N.; and Ruehlen, Forrest N., to Phillips Petroleum Company. Electrochemical reductive coupling. 3,689,382, 9-5-72, Cl. 204-73.00a.
Fox, Jack N.; Hansen, Ned P.; Olich, Eugene E.; Guenther, Ralph W.; and Rubinstein, Herbert J., to General Electric Company. Steam cooled nuclear reactor. 3,660,231, 5-2-72, Cl. 176-56.
Fox, James F., to Continental Can Company, Inc. Method of and apparatus for closing container. 3,688,464, 9-5-72, Cl. 53-24.000.
Fox, James H.; Dworkin, Darryl R.; and LeUng, Han Chung, to Mattel, Inc. Easy loading toy phonograph. 3,666,274, 5-30-72, Cl. 274-9.00b.
Fox, James S. W.: *See—*
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Fox, Leonard N., to Crane Co.; d/b/a Hydro-Aire Division. Slipper vane and valve combination for vane type fluid pump. 3,647,328, 3-7-72, Cl. 418-136.
Fox, Marvin L.; and Parry, James R. Insertable valve assembly. 3,640,304, 2-8-72, Cl. 137-315.
Fox, Maurice Rayner; Stewart, Neil David; and Lockett, Alfred Peter, to Imperial Chemical Industries Limited. Method of applying processing liquors to textile materials and apparatus therefor. 3,644,137, 2-22-72, Cl. 117-61.
Fox, Norman P., to Fasco Industries, Inc. Device for releasably latching filters and lamp lenses in range hoods. 3,660,969, 5-9-72, Cl. 55-385.000.
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Fox, Richard, to Imperial Chemical Industries of Australia and New Zealand Limited. Blasting agent package. 3,696,703, 10-10-72, Cl. 86-20.00c.
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Foxen, Benjamin F. Block molding apparatus. 3,694,128, 9-26-72, Cl. 425-412.000.
Foxhall, George Frederic; and Moline, Robert Alan, to Bell Telephone Laboratories, Incorporated. Forming impurity regions in semiconductors. 3,638,300, 2-1-72, Cl. 29-589.
Foy, George P. Attachment of belt buckles to belts. 3,685,057, 8-22-72, Cl. 2-325.000.
Foy, John L., Jr.: *See—*
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Frach, Werner; and Janke, Bernhard, to Frach, Werner. Windows, doors or the like. 3,660,937, 5-9-72, Cl. 49-192.
Frackowiak, Angelika Marie. Woman's hat with depending hair tresses. 3,636,962, 1-25-72, Cl. 132-60.
Fradette, Joseph J., to White Motor Corporation. Apparatus for incandescent filament mounting. 3,678,266, 7-18-72, Cl. 240-90.000.
Fradin, Jean; and Lengagne, Paul. Method of automatically packaging radio active sources and apparatus therefor. 3,664,083, 5-23-72, Cl. 53-53.
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Fraga, Cornelio. Ball and cup toy. 3,687,453, 8-29-72, Cl. 273-97.00r.
Fragas, Restituto R. Mattress structure or the like. 3,646,621, 3-7-72, Cl. 5-66.
Fragnito, Frank A. Variable speed transmission. 3,648,543, 3-14-72, Cl. 74-681.
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Fraioll, Joseph, Sr. Lateral-bend endless chain belt conveyor assembly. 3,693,780, 9-26-72, Cl. 198-182.000.
Fraleigh, Alton L. Flexible barrier. 3,654,730, 4-11-72, Cl. 49-34.
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Frame, Wayne W.; Gustavson, Roy A.; and Wiltse, James, to Aetna Life & Casuality. RC clutch stall circuit for a driver-trainer simulator. 3,704,526, 12-5-72, Cl. 35-11.000.
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Yamamoto, Haruhiko, 3,643,308.
France, David M.; and Petrick, Michael, to United States of America, Atomic Energy Commission. Heat exchanger using thermal convection tubes. 3,633,665, 1-11-72, Cl. 165-105.
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Francher, Llewellyn W. Method of controlling weeds with phenoxyethyl carbamates. 3,652,258, 3-28-72, Cl. 71-106.
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Francis, John E.: *See—*
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Francis, John E., to Ciba-Geigy Corporation. Derivatives of 9-pyridylalkyl-1,2,8,9-tetraazaphenalenes for lowering blood pressure. 3,646,205, 2-29-72, Cl. 424-250.
Francis, John P. Retractable window case structure and support therefor. 3,698,143, 10-17-72, Cl. 52-29.000.
Francis, Joseph S. Meat pickling machines and the like. 3,677,169, 7-18-72, Cl. 99-256.000.
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Francis, Richard H., to Eastman Kodak Company. System for selectively coating webs. 3,680,529, 8-1-72, Cl. 118-8.000.
Francis, Richard J.; and Francis, Clara A. Frequency-tunable multielement antenna structure. 3,646,563, 2-29-72, Cl. 343-723.
Francis, Ronald, to Itek Corporation. Data storage systems. 3,684,507, 8-15-72, Cl. 96-27.000.
Francis, Roy B.; and Holmes, Billy D., to Delta P. Incorporated. Filter with latch assembly. 3,636,683, 1-25-72, Cl. 55-493.
Francis, Theodore R. Noise reduction canopy device for machinery. 3,700,068, 10-24-72, Cl. 181-33.00k.
Francis, Thomas V.; and Borchers, Edward L., to Superior Aluminum Products, Inc. Simplified relatively heavy duty railing construction. 3,707,276, 12-26-72, Cl. 256-22.000.
Francis, Wallace R., to General Electric Company. Lampholder. 3,651,445, 3-21-72, Cl. 339-53.
Francis, William J., to Packaging Specialties, Inc. Pallet. 3,685,463, 8-22-72, Cl. 108-56.000.
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Franckowiak, Sigismond: *See—*
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Franco, Louis B. Fishing fly case. 3,680,750, 8-1-72, Cl. 224-5.00g.
Franco Manufacturing Co., Inc.: *See—*
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Franco, Pasini, to Industrie Pirelli S.p.A., mesne. Cable insulated with paper. 3,662,092, 5-9-72, Cl. 174-120.
Franco, Simone; Leoni, Alvaro; and Marini, Manlio, to Minnesota Mining and Manufacturing Company. Process for preparing N-(2-carboxamidoethyl) acrylamide. 3,694,506, 9-26-72, Cl. 260-561.00n.
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Francois, Edgar, to Uniroyal, Inc. Filament-wound resin torsion tubes with molded end splines. 3,638,455, 2-1-72, Cl. 64-23.
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Francois, Xavier; Venet, Roland Jean; and Prioretti, Guy Pierre, to Union Siderurgique du Nord et de l'Est de la France Par Abreviation "USINOR". Machine for tying up coils of filament such as wire. 3,678,845, 7-25-72, Cl. 100-4.000.
Frandsen, Lee R.: *See—*
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Frangatos, Gerassimos, to Mobil Oil Corporation. Lubricant compositions. 3,654,157, 4-4-72, Cl. 252-49.9.
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Frangatos, Gerassimos. Process for producing aldehydes and ketones. 3,692,840, 9-19-72, Cl. 260-586.00b.
Frangilli, Vittorio: *See—*
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Frangos, John W. Portable sifting apparatus. 3,640,386, 2-8-72, Cl. 209-337.
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Franiel, Carol Ann. Laminates. 3,692,235, 9-19-72, Cl. 232-1.000.
Frank, Arlen W.; and Baranauckas, Charles F., to Borg-Warner Corporation, mesne. 2-Haloperfluoro-1-cycloalken-1-yl phosphoryl compounds and process for the preparation thereof. 3,678,100, 7-18-72, Cl. 260-502.40r.
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Frank, Bruce S. Desalination of sea water. 3,670,897, 6-20-72, Cl. 210-321.000.
Frank, Charles A. Vapor treatment hood. 3,690,289, 9-12-72, Cl. 118-48.000.
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Stephan, Rudolf; Welze, Gerhard; Reinhard, Hans; and Frank, Hans-Ulrich, 3,635,776.
Frank, Herman J.; and Moch, Irving, Jr., to Du Pont de Nemours, E. I., and Company. Efficiency of nickel-aluminum catalysts by water washing. 3,691,093, 9-12-72, Cl. 252-420.000.
Frank, Jack D.; and Perretta, Michael L., to Vision Laboratories, Inc. Laboratory beaker transporter and elevator. 3,636,777, 1-25-72, Cl. 73-53.
Frank, John: *See—*
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Frank, Karl; and Jaeken, Jan, to Agfa-Gevaert Aktiengesellschaft. Colorphotographic material. 3,660,092, 5-2-72, Cl. 96-54.
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Frank, Kjell; and Johansson, Lennart, to Allmanna Svenska Elektriska Aktiebolaget. Capacitor bank for AC networks. 3,703,680, 11-21-72, Cl. 323-101.000.
Frank, Kjell, to Allmanna Svenska Elektriska Aktiebolaget. Inverter. 3,705,341, 12-5-72, Cl. 321-5.000.
Frank, Klaus: *See—*
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Frank, Lee F., to Eastman Kodak Company. Apparatus for fusing xerographic toners. 3,659,348, 5-2-72, Cl. 34-122.000.
Frank, Lee F.; and Alley, George W., II, to Eastman Kodak Company. Light lock for corona device. 3,660,656, 5-2-72, Cl. 250-49.5.
Frank, Lee F., to Eastman Kodak Company. Operator responsive programmed learning apparatus. 3,698,100, 10-17-72, Cl. 35-9.00a.
Frank, Lee Fitzpatrick, to Eastman Kodak Company. Self biasing grid control corona systems. 3,638,016, 1-25-72, Cl. 250-65.
Frank, Lee Fitzpatrick, to Eastman Kodak Company. Electrography. 3,680,954, 8-1-72, Cl. 355-3.000.
Frank, Lee Fitzpatrick, to Eastman Kodak Company. Acoustical gauge. 3,694,800, 9-26-72, Cl. 340-1.00r.
Frank, Louis; and Kling, Harry P., to Hittman Associates, Inc. Helium permeable containers. 3,645,703, 2-29-72, Cl. 29-182.5.
Frank, Morton E.; Gross, Jesse; and Lesh, Sol. Chemical testing apparatus. 3,692,498, 9-19-72, Cl. 23-292.000.
Frank, Peter; Jentzsch, Dietrich; and Kurger, Helmut, to Bodenseewerk Perkin-Elmer & Co. GmbH. Sample injection arrangement for an analytical instrument. 3,672,227, 6-27-72, Cl. 73-422.0gc.
Frank, Peter M.; and Watts, Frank M., to Beautiline Showcase Systems. Channel member having a removal side wall. 3,668,830, 6-13-72, Cl. 52-400.000.
Frank, Robert G., to PPG Industries, Inc. Moving glass locating devices. 3,701,643, 10-31-72, Cl. 65-62.000.
Frank, Robert G., to PPG Industries, Inc. Method and apparatus for shaping glass sheets with opposed roller sets. 3,701,644, 10-31-72, Cl. 65-106.000.
Frank, Rudi: *See—*
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Frank, Victor S.; Lard, Edwin W.; and Stahly, Eldon E., to Grace, W. R., & Co. Burn-resistant plastic compositions. 3,641,193, 2-8-72, Cl. 260-830.
Frank, Victor S.; and Gush, Donald P., to Grace, W. R., & Co. Reproduction of images using light sensitive curable liquid polymers. 3,645,730, 2-29-72, Cl. 96-28.
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Frank, Willi; and Gengler, Gustav. Annular radiator. 3,698,473, 10-17-72, Cl. 165-51.000.
Frank, William C., to Hyde Park Farm Supply Limited. Poultry crates. 3,695,232, 10-3-72, Cl. 119-17.000.
Frank, William J. Apparatus for crushing and disposing of cans and glass containers. 3,687,062, 8-29-72, Cl. 100-91.000.
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Franke, Kurt; and Steffen, Hermann, to ITT Industries, Inc. Lubricator, particularly for hydrodynamic brake evacuated during idling. 3,684,335, 8-15-72, Cl. 308-187.000.
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Franke, Norman W.; Paviak, Stanley C.; and Porter, Warren K., Jr., to Gulf Research & Development Company. Ethoxylated amino alkanes as surfactants. 3,706,676, 12-19-72, Cl. 252-544.000.
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Frankel, Leon A. Method and apparatus for anastomosing and incising. 3,683,925, 8-15-72, Cl. 128-334.000.
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Frankel, Milton B.; Warner, Michael G.; and Witucki, Edward F., to North American Rockwell Corporation. Dinitrofluoroalkyl epoxides. 3,642,830, 2-15-72, Cl. 260-348.
Frankel, Milton B.; Gold, Marvin H.; and Marcus, Henry J., to Aerojet-General Corporation. 2-Nitro-2-chloro-n-alkyl esters. 3,644,494, 2-22-72, Cl. 260-485.
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Frankenberg, Henry E., to Continental Can Company, Inc. Method and apparatus for making corrugated crown caps. 3,695,201, 10-3-72, Cl. 113-121.00a.
Frankenfeld, John W.; and Dasinger, Bruce L., to Esso Research and Engineering Company. Fermentation process for the production of high quality protein cells and nucleic acids. 3,634,194, 1-11-72, Cl. 195-28.
Frankenfeld, John W.; and Gerarde, Horace W., to Esso Research and Engineering Company. Aliphatic diols as analgesic agents. 3,644,651, 2-22-72, Cl. 424-343.
Frankenfeld, John W.; Karel, Marcus; and Labuza, Theodore P., to Esso Research and Engineering Company. Esters of 1,3 diols and 1,3,5, x-polyols as additives for baked goods. 3,667,964, 6-6-72, Cl. 99-90.00p.
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Frankeny, Richard F.; and Tuttle, Joey K., to International Business Machines Corporation. Apparatus and method independently varying the widths of a plurality of pulses. 3,675,133, 7-4-72, Cl. 328-55.000.
Frankie, Thomas T.; and Pascoe, Larry B., to Rohr Corporation. Rivet center detector mechanism embodying gauge. 3,685,716, 8-22-72, Cl. 227-1.000.
Frankiewicz, Gerhard; and Wiesbeck, Franz, to Agfa-Gevaert Aktiengesellschaft. Apparatus for classifying photographic prints or the like. 3,631,979, 1-4-72, Cl. 209-74.
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Frankland, Roger A., to Tektronix, Inc. Method of manufacturing cathode ray storage tube target. 3,687,665, 8-29-72, Cl. 96-36.000.
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Franklin, Clarence W. Sub-caliber adapter for firearm. 3,640,013, 2-8-72, Cl. 42-77.
Franklin, Denis; Gingold, Jerald S.; Oxenham, Ronald B.; and Rogers, Raymond E. Status display panel indicating performance as a function of time with record feature. 3,680,084, 7-25-72, Cl. 340-381.000.
Franklin, Dennis M.; Hornreich, Richard M.; and Rubinstein, Harvey, to Sylvania Electric Products, Inc. Magnetostatically-coupled thin-film magnetic memory devices. 3,701,983, 10-31-72, Cl. 340-174.0qa.
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Franklin, George H., to Giddings & Lewis, Inc. Automatic assembly system employing first and second hammer mechanisms for insertion of workpieces. 3,681,837, 8-8-72, Cl. 29-211.00d.
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Franklin, John S.; and Pursley, William C., to General Electric Company. Luminaire reflector and lampholder mounting. 3,705,301, 12-5-72, Cl. 240-25.000.
Franklin, Kenneth Winston, to Wentcroft Engineerings Limited. Apparatus for the collation and packing of articles. 3,657,860, 4-25-72, Cl. 53-162.
Franklin, LeRoy H. High power fuse. 3,678,431, 7-18-72, Cl. 337-185.000.
Franklin, Marvin L.; and Gagle, Duane W., to Phillips Petroleum Company. Synthetic organic fiber-asbestos fiber fabric and asphalt impregnated product. 3,632,415, 1-4-72, Cl. 117-126.
Franklin Mint Corporation: *See—*
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Franklin, Peace, to National Volume Sales Corporation. Apparatus for applying exterminating and preservative compositions for wood. 3,692,469, 9-19-72, Cl. 21-63.000.
Franklin, Richard C., to Du Pont de Nemours, E. I., and Company. Preparation of disazo J acid urea dyestuffs. 3,681,320, 8-1-72, Cl. 260-175.000.
Franklin, Richard C., to Du Pont de Nemours, E. I., and Company. Dyeing cotton and paper with bis(arylazo or sulfoarylazo)-J-acid urea reaction mixture and composition therefor. 3,701,624, 10-31-72, Cl. 8-7.000.
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Franklin, William E.; Mack, Charles H.; and Rowland, Stanley P., to United States of America, Agriculture. Cellulose dicyclopentadienemonocarboxylates and a process of durable creasing said by delayed cure. 3,632,298, 1-4-72, Cl. 8-120.
Franklyn, Robert Alan. Cosmetic surgical process. 3,654,914, 4-11-72, Cl. 128-1.
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Frankowski, Jozef, to General Dynamics Corporation. Method of using polyethylene terephthalate as a bonding adhesive. 3,661,675, 5-9-72, Cl. 156-285.
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Franks, John T., Jr.: *See—*
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Franks, Neal E., to Procter & Gamble Company, The. Enzymatically active composition having an insolubilized protease enzyme covalently bonded to a water insoluble polyanhydroglucose. 3,647,630, 3-7-72, Cl. 195-63.
Franks, Newell A., to Burr Oak Tool & Gauge Company. Method of cutting an elongated tube and apparatus. 3,692,219, 9-19-72, Cl. 225-2.000.
Franks, Roger G. E.; and Ritchey, Steven L., to Du Pont de Nemours, E. I., and Company. Process and apparatus for controlling with a computer a distillation column product and heat fluid rates of flow. 3,660,247, 5-2-72, Cl. 293-91.
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Frans, Robert D., to Allis-Chalmers Manufacturing Company. Process for reducing oxygen content of oxidic mineral ore. 3,661,553, 5-9-72, Cl. 75-3.
Frans, Robert D., to Hanna Mining Company, The. Heat processing of minerals. 3,671,027, 6-20-72, Cl. 263-32.00r.
Frans, Robert D. Apparatus for reducing oxygen content of oxidic mineral ore. 3,677,534, 7-18-72, Cl. 266-20.000.
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Frantz, Franklin D.; Acello, Salvatore J.; and Geller, Harold I., to Sprague Electric Company. Encapsulated electrical components with protective pre-coat containing collapsible microspheres. 3,670,091, 6-13-72, Cl. 174-52.0pe.
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Franz, Hermann; and Kunert, Max, to Edeleanu Gesellschaft m.b.H. Process for the utilization of emulsions of aqueous urea solution and normal paraffins. 3,661,766, 5-9-72, Cl. 208-25.
Franz, John E., to Monsanto Company. 2-Acyl-4-acyloxy-2,3,4,5-tetrahydro-1,2,4-oxadiazoles. 3,674,802, 7-4-72, Cl. 260-307.00f.
Franz, John E., to Monsanto Company. 3-Aryl-isothiazole-4,5-dicarboxylates. 3,699,115, 10-17-72, Cl. 260-302.00a.
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Franz, Norman C. Means for sealing fittings and nozzle assembles at extremely high fluid pressures. 3,705,693, 12-12-72, Cl. 239-600.000.
Franz, Peter; and Maier, Andreas, to Buss A.G. Process for the preparation of intermediates of polyaddition resins. 3,643,874, 2-22-72, Cl. 241-3.
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Franz, Thomas C., to United Aircraft Corporation. Fuel cell system with pneumatic fuel flow control. 3,668,013, 6-6-72, Cl. 136-86.00b.
Franz, William F.; and Hess, Howard V., to Texaco Inc. Hydrodesulfurization of heavy hydrocarbon oil with hydrogen presaturation. 3,657,112, 4-18-72, Cl. 208-211.
Franz, William F.; Hess, Howard V.; and Cole, Edward L., to Texaco Inc. Waste disposal process for spent wood-pulping liquors. 3,705,077, 12-5-72, Cl. 162-30.000.
Franzel, Irwin H. Energy transmission apparatus. 3,698,397, 10-17-72, Cl. 128-399.000.
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Franzreb, Thomas G., to Purex Corporation, Ltd. Portable power scrubber with leveraged pressure feature. 3,665,542, 5-30-72, Cl. 15-98.000.
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Frase, Roland J.; and O'Neil, Gordon R., to International Harvester Company. Finger type planter. 3,638,829, 2-1-72, Cl. 221-219.
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Fraser, Robert William; Kushnir, Bud William; and Weizenbach, Bauke. Dispersion strenthened nickel-chromium alloys. 3,692,596, 9-19-72, Cl. 148-31.500.
Fraser, William Milton; Cairns, Walter John; and Mac Donald, Ian Norman, to Howden, James, & Company Limited. Cooling-gas circulators for nuclear-power stations. 3,671,149, 6-20-72, Cl. 417-360.
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Frazier, Larry C., to National-Standard Company. Tire building method. 3,645,818, 2-29-72, Cl. 156-128.
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Frazier, Melvin A., to Collins Radio Company. Short circuit protected voltage regulator. 3,697,861, 10-10-72, Cl. 323-9.000.
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Frazier, Stanley J. Concrete form locked by universal key. 3,687,411, 8-29-72, Cl. 249-44.000.
Frazier, Thomas A., to West Company, The. Nipple-retaining ring assembly. 3,650,270, 3-21-72, Cl. 128-252.
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Frederick, Harold M., to Burroughs Corporation. Automatically disengaging, tape handler. 3,675,876, 7-11-72, Cl. 242-198.000.
Frederick, Harold M.; and Sims, Dewey M., Jr., to Burroughs Corporation. Web tension control device. 3,704,820, 12-5-72, Cl. 226-34.000.
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Frederiksen, Erling Knud; and Godtfredsen, Wagn Ole, to Lovens Kemiske Fabrik Produktionsaktieselskab. Esters of α-aminobenzylpenicillin. 3,697,507, 10-10-72, Cl. 260-239.100.
Frederiksen, Ronald A.: *See—*
Muzyczko, Thaddeus M.; Frederiksen, Ronald A.; and York, David L., 3,690,880.
Frederiksen, Thomas M.: *See—*
Davis, William F.; and Frederiksen, Thomas M., 3,665,329.
Frederiksen, Thomas M., to Motorola, Inc. Differential trigger circuit. 3,648,069, 3-7-72, Cl. 307-235.
Frederiksen, Thomas M.; and Russell, Ronald W., to Motorola, Inc. Power supply start circuit and amplifier circuit. 3,648,154, 3-7-72, Cl. 323-22.
Frederiksen, Thomas M., to Motorola, Inc. Single supply comparison amplifier. 3,649,846, 3-14-72, Cl. 307-235.
Frederiksen, Thomas M., to Motorola, Inc. Constant current source. 3,659,121, 4-25-72, Cl. 307-297.
Frederiksen, Thomas M., to Motorola, Inc. Current limiting transistor. 3,670,219, 6-13-72, Cl. 317-235.
Frederiksen, Thomas M., to Motorola, Inc. Temperature compensated bias circuit. 3,671,770, 6-20-72, Cl. 307-310.000.
Frederiksen, Thomas M., to Motorola, Inc. Integrated bistable circuit. 3,700,929, 10-24-72, Cl. 307-291.000.
Frederiksen, Thomas M.; and Long, Ernest L., to Motorola, Inc. Complementary power amplifier. 3,701,031, 10-24-72, Cl. 330-17.000.
Fredkin, Edward; and Renold, Walter, to Information International, Inc. Rapid film reader/recorder utilizing movable cylindrical lens. 3,693,042, 9-19-72, Cl. 315-18.000.
Fredman, Harry. Adapter unit for interconnecting bedframes and head and footboards. 3,644,948, 2-29-72, Cl. 5-296.
Fredrickson, Donald M., to Bell & Howell Company. Sheet separating apparatus. 3,640,524, 2-8-72, Cl. 271-36.
Fredrickson, Donald M.; and Bungener, Johannes H., to Bell & Howell Company. Toner doctor means. 3,640,617, 2-8-72, Cl. 355-10.
Fredrickson, James D.; and Hickman, Ella Sue, to Reynolds Leasing Corporation, mesne. Tobacco expansion process. 3,683,937, 8-15-72, Cl. 131-140.000.
Fredrickson, Walter G.: *See—*
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Fredrickson, Walter G.; Jones, George M.; and Thrailkill, Howard A., to Harris-Intertype Corporation. Full word wrap-around in editing/correcting display apparatus. 3,688,275, 8-29-72, Cl. 340-172.500.
Fredrickson, Walter G.; Heitmann, Albert W.; and Jones, George M., to Harris-Intertype Corporation. Apparatus for editing and correcting displayed text. 3,706,075, 12-12-72, Cl. 340-172.500.
Fredrikson, Bengt; Larsen, Stein; and Suvanto, Erkki. Means for casting. 3,685,570, 8-22-72, Cl. 164-251.000.
Fredriksson, Karl Garry Kenneth: *See—*
Mattsson, Leif Erling M.; and Fredriksson, Karl Garry Kenneth, 3,664,390.
Free, Marvin H.: *See—*
Wood, Loren E.; and Free, Marvin H., 3,698,598.
Free, Maurice G., to Motorola, Inc. Integrated circuit amplifier having an improved gain-versus-frequency characteristics. 3,660,773, 5-2-72, Cl. 330-30.
Free, Maurice G.; and Wisseman, Leo L., to Motorola, Inc. Neutron radiation and gamma ray hardened adjustable power supply. 3,679,963, 7-25-72, Cl. 323-4.000.
Free, William N.: *See—*
Bonneville, Gerald D.; Hetke, Adolf; and Free, William N., 3,702,169.
Free-Flow Packaging Corporation: *See—*
Makowski, Alexander G., 3,632,705.
Freebairn, Hugh T.: *See—*
McDonnell, Gerald F.; and Freebairn, Hugh T., 3,683,788.
Freeby, LeRoy W., to Robertshaw Controls Company. Temperature calibration assembly having adjustment member frictionally engaged by a cylindrical member frictionally engaged by a cylindrical member for setting and calibration. 3,683,304, 8-8-72, Cl. 337-37.000.

Freed, Charles: *See*—
Javan, Ali; and Freed, Charles, 3,686,585.
Freed, Jacob B.; and Reiling, Victor G., to Union Pump Company. Lined plug valve. 3,698,422, 10-17-72, Cl. 137-375.000.
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Potoski, John R.; and Freed, Meier E., 3,632,581.
Potoski, John R.; and Freed, Meier E., 3,635,982.
Potoski, John R.; and Freed, Meier E., 3,647,790.
Potoski, John R.; and Freed, Meier E., 3,692,791.
Freed, Meier E.; and Hertz, Elisabeth, to American Home Products Corporation. 4,5-Dihydro-N-(4-phenyl-1-piperazinylcarbonyl-1H[1,4]diazepino[1,2-a]indole. 3,641,030, 2-8-72, Cl. 260-268.
Freed, William E. Hose support and guide. 3,650,545, 3-21-72, Cl. 280-421.
Freedborn, John C., to Honeywell Inc. High speed amplifier for driving an inductive load. 3,638,130, 1-25-72, Cl. 330-30.
Freedman and Goodman: *See*—
Grosberg, Sam, 3,674,266.
Freedman, David; and Tick, Sanford J., to New Brunswick Scientific Co., Inc. Centrifugal mechanical defoamer. 3,649,557, 3-14-72, Cl. 252-361.
Freedman, David, to New Brunswick Scientific Co., Inc. Rotary valve pump. 3,694,112, 9-26-72, Cl. 417-519.000.
Freedman, Edward J. Polyhedral amusement and educational device. 3,662,486, 5-16-72, Cl. 46-1.00r.
Freedman, Frank B.; Friedman, Julius J.; and Williams, Bruce P. Parabiotic dialysis apparatus. 3,682,172, 8-8-72, Cl. 128-214.00b.
Freedman, Frank B. Parabiotic dialysis apparatus. 3,699,960, 10-24-72, Cl. 128-214.00b.
Freedman, Gerald: *See*—
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Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvy R., 3,680,915.
Freedman, Jules; and Judd, Claude I., to Colgate-Palmolive Company. 3-(2-Aminophenyl)indole derivatives. 3,637,747, 1-25-72, Cl. 260-326.13.
Freedman, Jules, to Colgate-Palmolive Company. 3-Amino-2-(3,4-dihalophenyl)bicyclo[2.2.2]octan-2-ol. 3,651,142, 3-21-72, Cl. 260-570.5.
Freedman, Jules, to Colgate-Palmolive Company. 4H [1] benzopyrano [3,4-d] isoxazole derivative. 3,692,796, 9-19-72, Cl. 260-307.00h.
Freedman, Jules, to Colgate-Palmolive Company. 3-Alkanol derivatives of 4H [1] benzopyrano [3,4-d]isoxazoles. 3,707,476, 12-26-72, Cl. 260-307.00h.
Freedman, Morris D., to Bendix Corporation, The. Shadow edge position detector using linear array of diodes with logic to generate gray code. 3,676,687, 7-11-72, Cl. 250-209.000.
Freedman, Morris D., to Bendix Corporation, The. Optical image data processing system. 3,676,866, 7-11-72, Cl. 340-173.0lt.
Freedman, Morris D., to Bendix Corporation, The. Character recognition system. 3,694,806, 9-26-72, Cl. 340-146.30f.
Freedman, Morris David, to Bendix Corporation, The. Coordinate determining device employing a second order difference signal to determine approximate cursor position. 3,699,253, 10-17-72, Cl. 178-19.000.
Freedman, Myron L. Method and apparatus for cleaning film. 3,640,293, 2-8-72, Cl. 134-9.
Freedman, Nathan; and Hart, Harold M., to Raytheon Company. Pulsed oscillator. 3,649,918, 3-14-72, Cl. 325-164.
Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvey R., to Freedman Seating Company. Counterbalanced folding seats with position lock. 3,652,127, 3-28-72, Cl. 297-372.
Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvy R., to Freedman Seating Company. Automobile seat with adjustable head-rest. 3,680,915, 8-1-72, Cl. 297-410.000.
Freedman, Samuel Orkin; Gold, Phil; and Krupey, John Henry, to Hoffmann-La Roche Inc. Carcinoembryonic antigen and diagnostic method using radioactive iodine. 3,663,684, 5-16-72, Cl. 242-1.000.
Freedman Seating Company: *See*—
Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvey R., 3,652,127.
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Freegard, Ernest M.: *See*—
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Freegard, Ernest M., to Advance Transformer Co. Universal bracket for mounting mercury ballasts. 3,664,624, 5-23-72, Cl. 248-221.000.
Freeh, Edward J.: *See*—
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Freel, John: *See*—
Pieters, William Johan Meindert; Freel, John; and Anderson, Robert Bernard, 3,657,157.
Pieters, William Johan Meindert; Freel, John; and Anderson, Robert Bernard, 3,674,707.
Freeland, Edward J., to Gulf & Western Industrial Products Company. Machine control circuit. 3,700,991, 10-24-72, Cl. 318-447.000.
Freeland, Iris Mary: *See*—
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Freeland, Stanley R., to Bell & Howell Company. Pendulous type rangefinder for optical instrument. 3,675,559, 7-11-72, Cl. 95-44.00c.
Freeland, William; deceased (by Freeland, Iris Mary; executrix), to U.S. Philips Corporation. Backflushing filter. 3,674,151, 7-4-72, Cl. 210-298.000.
Freelander, Israel Robert. Jack-in-the box including box with integral inner cylindrical wall. 3,667,155, 6-6-72, Cl. 46-146.
Freeman, Aaron E., to Microbiological Associates, Inc. Assay and culture tray. 3,649,464, 3-14-72, Cl. 195-140.
Freeman, Albert Leslie, to International Standard Electric Corporation. Method of forming a contact. 3,650,026, 3-21-72, Cl. 29-630.
Freeman, Alfred. Treatment of footwear. 3,681,850, 8-8-72, Cl. 34-1.000.
Freeman, Alfred B. Tone modulation system. 3,688,010, 8-29-72, Cl. 84-1.110.
Freeman, Arthur H.; and Vallone, Giacinto, to General Electric Company. Switch for electric knife with wiping action contact shorting bar. 3,694,604, 9-26-72, Cl. 200-157.000.
Freeman, Carlos A., Jr. Reaction--impulse--counterrotating--airfoil. 3,677,503, 7-18-72, Cl. 244-23.
Freeman, Charles Robert: *See*—
Olyphant, Murray, Jr.; Cartier, Michael David; and Freeman, Charles Robert, 3,665,428.
Freeman Chemical Corporation: *See*—
Svoboda, Glenn R.; and Ross, Richard C., 3,634,308.
Svoboda, Glenn R.; and Reineck, Ronald W., 3,676,376.
Szwarc, John J.; and Doyle, Thomas E., 3,638,312.
Freeman, Darrell L., to Nutter Engineering Company; division of Heat/Fluid Engineering Corporation. Clamp assembly. 3,674,246, 7-4-72, Cl. 261-114.00r.
Freeman, Donald C., Jr.; and Rogers, Louis J., to Ionics Incorporated, mesne. Analysis of organic and inorganic water pollutants. 3,672,841, 6-27-72, Cl. 23-230.0pc.
Freeman, Donald J.; Fulkerson, Ambrose A.; Grall , Kenneth J.; and Pearson, Samuel J., to United States of America, Army. Black smoke marker. 3,695,949, 10-3-72, Cl. 149-15.000.
Freeman, Frank George, to Lucas, Joseph, (Industries) Limited. Radial piston pumps or motors. 3,657,971, 4-25-72, Cl. 91-487.
Freeman, Frank George, to Lucas, Joseph, (Industries) Limited. Hydraulic pump. 3,663,125, 5-16-72, Cl. 417-294.
Freeman, Gerald C.: *See*—
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Freeman, Harlan G.: *See*—
Kreibich, Roland E.; Freeman, Harlan G.; Baxter, Gene F.; and Kumli, Karl F., 3,634,276.
Freeman, Harlan G.; Baxter, Gene F.; and Howell, John T., to Weyerhaeuser Company. Phenol-formaldehyde adhesive resin containing hydroxyethyl cellulose. 3,663,481, 5-16-72, Cl. 260-14.
Freeman, Harlan G.; and Gillern, Maurice F., to Weyerhaeuser Company. Foams and process of making. 3,704,269, 11-28-72, Cl. 260-2.50f.
Freeman, Harlan G., to Weyerhaeuser Company. Method of bonding wood and other materials with rapid-curing adhesives using a primer composition. 3,706,619, 12-19-72, Cl. 156-315.000.
Freeman, Horace L.: *See*—
Woodall, Hubert C., Jr.; Freeman, Horace L.; and Goodman, Noah C., 3,669,157.
Freeman, Hovey T., Jr.: *See*—
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Freeman, Howard I.: *See*—
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Freeman, James Harry, to United Kingdom Atomic Energy Authority. Apparatus for bombarding a target with ions. 3,689,766, 9-5-72, Cl. 250-49.50t.
Freeman, James Harry, to United Kingdom Atomic Energy Authority. Ion beam sources with tiltable firing angle. 3,705,320, 12-52, Cl. 313-63.000.
Freeman, John D.; and Earls, David E., to General Time Corporation. Automatic cycling discharging device. 3,658,209, 4-25-72, Cl. 222-70.
Freeman, Kenneth G. Ratchet control mechanism. 3,665,775, 5-30-72, Cl. 74-473.00r.
Freeman, Leslie Bernard, to Lucas, Joseph, (Industries) Limited. Hydraulic power transmission systems. 3,650,109, 3-21-72, Cl. 60-97.
Freeman, Maurice, to Imperial Chemical Industries Limited. Coating compositions. 3,694,394, 9-26-72, Cl. 145-29.00w.
Freeman, Michael H., to Pilkington Perkin-Elmer Limited. Head-up displays. 3,666,887, 5-30-72, Cl. 178-7.85.
Freeman, Norman H.: *See*—
Czulak, Joseph; Freeman, Norman H.; and O'Connell, James R., 3,695,893.
Freeman, Peter A. Vacuum controlled fluidic regulator. 3,670,754, 6-20-72, Cl. 137-81.500.

Freeman, Peter A., to Bowles Fluidics Corporation. Fluidic irrigation. 3,675,672, 7-11-72, Cl. 137-81.500.
Freeman, Peter Frank Hilary: *See—*
Geoghegan, Michael Joseph Augustine; Turner, John Angus/William; Freeman, Peter Frank Hilary; and Summers, Lindsay Anderson, 3,683,087.
Freeman, Peter Frank Hilary; Markey, Roger Franklin Joseph; Peacock, Frederick Charles; and Sharpe, Stuart Peter, to Imperial Chemical Industries, Limited. Pesticidal halogen-substituted pyrimidinyl phosphorus esters. 3,657,247, 4-18-72, Cl. 260-256.5.
Freeman, Peter Frank Hilary; Shephard, Margaret Claire; and Snell, Brian Kenneth, to Imperial Chemical Industries, Limited. Fungicidal and insecticidal methods and compositions employing pyrimidine derivatives. 3,670,077, 6-13-72, Cl. 424-200.000.
Freeman, Peter Frank Hilary, to Imperial Chemical Industries Limited. Pesticidally active compounds and compositions containing them. 3,674,877, 7-4-72, Cl. 424-263.000.
Freeman, Richard B.; Kawalec, Michael T.; Maholick, Andrew W.; and Stager, Stanley R., III, to International Business Machines Corporation. Universal cyclic division circuit. 3,678,469, 7-18-72, Cl. 340-172.500.
Freeman, Robert J. Underground refuse collection system. 3,661,239, 5-9-72, Cl. 198-20.
Freeman, William R., Jr.: *See—*
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Freemen, Norman L.: *See—*
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Freeport Sulphur Company: *See—*
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Morris, Horton H.; and Olivier, James P., 3,660,134.
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Morris, Horton H.; and Prescott, Paul I., 3,697,475.
Smith, Jay Charles; and Reinhardt, James R., 3,640,682.
Freer, Edgar P., to Hubach-Freer Corporation, mesne. Precision digital linear adjustment mechanism and height gage embodying same. 3,676,934, 7-18-72, Cl. 33-169.00r.
Freericks, Lambert: *See—*
Buonsante, John J.; Freericks, Lambert; Haarmann, Howard J.; and Sieglinger, John C., 3,697,702.
Freerks, Conrad T.; Huppert, James C.; and James, Ralph E., to Minnesota Mining and Manufacturing Company. Wide flap wheel. 3,645,049, 2-29-72, Cl. 51-334.
Freerks, Conrad T.; and Luecke, Fred R., Jr., to Minnesota Mining and Manufacturing Company. Surface grinding device. 3,668,814, 6-13-72, Cl. 51-144.000.
Freeze Dry Products Inc.: *See—*
Wise, Raymond G., 3,653,383.
Freeze, James T.; and Fikes, Alan L., to Pfizer Inc. Stabilized halogen containing resins. 3,655,616, 4-11-72, Cl. 260-45.75.
Freeze, John A., to Westinghouse Electric Corporation. Method of testing an electrical winding including the step of connecting the winding to provide a tank circuit. 3,667,034, 5-30-72, Cl. 324-55.
Fregeolle, Oscar, to Pilot Research Corporation. Apparatus and method for slitting fabric on a circular knitting machine. 3,670,528, 6-20-72, Cl. 66-147.000.
Fregeolle, Oscar, to Pilot Research Corporation. Seamless panty hose and method. 3,670,529, 6-20-72, Cl. 66-177.000.
Freggens, Robert A., to RCA Corporation. Internal configuration for a radial heat pipe. 3,658,125, 4-25-72, Cl. 165-80.
Freggens, Robert Alfred, to RCA Corporation. Method of making a heat pipe having an easily contaminated internal wetting surface. 3,672,020, 6-27-72, Cl. 29-157.30r.
Frehe, Dieter, to Gutbrod, Walter and Gutbrod, Wolfgang. Motor-driven sweeping machine. 3,665,541, 5-30-72, Cl. 15-83.
Frei, Alfred; and Schweizer, August, to Sandoz Ltd.; a/k/a Sandoz A.G. Dye preparations containing a metallized disazo dye and monopropanolamine. 3,700,653, 10-24-72, Cl. 260-148.000.
Frei, Armin H., to International Business Machines Corporation. Analog to digital converter. 3,701,148, 10-24-72, Cl. 340-347.0ad.
Frei, Arno, to Sulzer Brothers, Limited. Hydrostatic shaft seal. 3,685,839, 8-22-72, Cl. 277-27.000.
Frei, Karl. Thread storing device for temporarily storing a thread. 3,637,149, 1-25-72, Cl. 242-47.09.
Frei, Karl; and Hood, Edwin Elliott, to Bendix Corporation, The. Bicycle disc brake. 3,675,740, 7-11-72, Cl. 188-26.000.
Frei, Karl; and Hood, Edwin Elliott, to Bendix Corporation, The. Bicycle disc brake. 3,675,741, 7-11-72, Cl. 188-26.000.
Frei, Karl. Thread sensing arrangement. 3,689,963, 9-12-72, Cl. 28-1.00r.
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Gutman, Arnold D.; and Freiberg, Ashley H., 3,692,900.
Szabo, Karoly; and Freiberg, Ashley H., 3,639,629.
Freiberg, Leslie Alan, to Abbott Laboratories. De(N-methyl)-N-substituted derivatives of erythromycin. 3,681,325, 8-1-72, Cl. 260-210.00e.
Freiberg, Robert J.: *See—*
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Freiberger, Ronald D.; and Woolley, James L., to General Motors Corporation. Heater blower motor delay energizing means. 3,668,497, 6-6-72, Cl. 318-471.000.
Freibergs, Elmer, to United States of America, Army. Reciprocal latching ferrite phase shifter. 3,681,715, 8-1-72, Cl. 333-31.00a.
Freiburger, Thomas William, to Deere & Company. Single-lever actuated linkage for controlling the transmission and steering of a crawler tractor. 3,633,436, 1-11-72, Cl. 74-471.
Freiburghaus, Bernard, to Fimecor Fine Mecanique S.A. Machine for rotatably driving the bottom of a watch-casing or the bottom of a measuring apparatus. 3,633,444, 1-11-72, Cl. 81-6.
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Freiman, Charles V.: *See—*
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Freimuth, Friedrich. Arrangement for retaining a closing or support member in a cylindrical housing. 3,648,348, 3-14-72, Cl. 29-200.
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Freisler, Erhard, to Ruti Machinery Works Ltd.; formerly Caspar Honegger. Roll arrangement for a textile machine. 3,703,914, 11-28-72, Cl. 139-308.000.
Freismuth, John S.; and Beneditti, Nello L.; deceased (by Beneditti, Lena; executor), said Freismuth assor. to Eaton Yale & Towne, Inc. Forward poppet thermostat. 3,640,454, 2-8-72, Cl. 236-34.
Freitag, Harlow, to International Business Machines Corporation. Element placement system. 3,654,615, 4-4-72, Cl. 340-172.5.
Freitag, Lawrence F., to Allen-Bradley Company. Circuit boad assembly with positive latch. 3,691,430, 9-12-72, Cl. 317-101.0dh.
Freley, Thomas E. Golf ball. 3,637,220, 1-25-72, Cl. 273-214.
Freller, Helmut; and Obitz, Magdalena, to Siemens Aktiengesellschaft. Hall probe for measuring an axial magnetic field in a bore. 3,665,366, 5-23-72, Cl. 338-32.
Freman, Quilla H. Single pickup frequency control for stringed instrument. 3,657,461, 4-18-72, Cl. 84-1.15.
Fremiot, Charles, to Commissariat a l'Energie Atomique. Waveguide device for bringing an element to a high direct-current potential. 3,678,365, 7-18-72, Cl. 321-8.00r.
Fremont, Howard J., to Marine Protein Corporation. Floating fish growing tank. 3,653,358, 4-4-72, Cl. 119-3.
Fremont, Howard J., to Marine Protein Corporation. Floating fish enclosure. 3,698,359, 10-17-72, Cl. 119-3.000.
Fremont, Robert S., to Halo Lighting Division; a division of McGraw-Edison Company. Suspended electrified ceiling system. 3,649,741, 3-14-72, Cl. 174-48.
French, Alfred W.; and Starrett, Forest J., Jr., to French Oil Mill Machinery Company, The. Method and apparatus for recovering juice from sucrose bearing materials. 3,661,082, 5-9-72, Cl. 100-37.
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French, Elbert E.; and Parker, Robert W. Slidable pin-locking tool. 3,695,102, 10-3-72, Cl. 73-141.00r.
French, Eric Ancelot: *See—*
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French, Franklin J.; and Mitchell, Dominic C., to North American Rockwell Corporation. Flame resistant silicone composition. 3,634,136, 1-11-72, Cl. 117-224.
French, Fred W., to Noranda Metal Industries Inc., mesne. Heat-exchange tubing and method of making it. 3,662,582, 5-16-72, Cl. 72-367.
French, George F. Key cutting device. 3,656,402, 4-18-72, Cl. 90-13.05.
French, Gerald H.: *See—*
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French, Gerald H., to Mosley Electronics Company. Selectively-polarized antenna employing impedance matched crossed dipoles. 3,671,973, 6-20-72, Cl. 343-751.000.
French, Gordon Blair; and Slezak, Michael, to Allied Chemical Corporation. Method of controlling growth of brine wells. 3,632,171, 1-4-72, Cl. 299-5.
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Fried, John H.; Edwards, John A.; and McCrae, William, to Syntex Corporation. Estrogenic agents. 3,652,657, 3-28-72, Cl. 260-488.

Fried, John H.; and Crabbe, Pierre, to Syntex Corporation. 17α-Methylenecyclopropl- and 17α-spiropentyl steroids and process. 3,654,321, 4-4-72, Cl. 260-397.4.

Fried, John H., to Syntex Corporation. Drug glycerol ketals. 3,658,789, 4-25-72, Cl. 260-239.55.

Fried, John H., to Syntex Corporation. 1-Substituted-2-halocycloheptene-3-ols. 3,658,841, 4-25-72, Cl. 260-326.5.

Fried, John H., to Syntex Corporation. Production of unsaturated carbocyclic ketones. 3,658,847, 4-25-72, Cl. 260-340.9.

Fried, John H., to Syntex Corporation. 3-Alkoxymethylenoxy ethers of androstanes and 19-norandrostanes and their preparation. 3,658,854, 4-25-72, Cl. 260-397.5.

Fried, John H., to Syntex Corporation. 17α-Butatrienyl steroids. 3,661,943, 5-9-72, Cl. 260-397.4.

Fried, John H., to Pfizer Inc. Stimulatory effect of organic acids in citric acid fermentation. 3,669,839, 6-13-72, Cl. 195-37.000.

Fried, John H., to Syntex Corporation. 1,6 Oxidocyclodecapentaene alcohols, aldehydes, and acids. 3,681,391, 8-1-72, Cl. 260-333.000.

Fried, John H., to Syntex Corporation. Cyclodecapentaene compounds. 3,683,006, 8-8-72, Cl. 260-468.00b.

Fried, Josef; Pribyl, Edward Joseph; and Krapcho, John. Ester derivatives of bis[(p-amino-lower alkylene-oxy)phenyl] alkanols. 3,652,658, 3-28-72, Cl. 260-490.

Fried, Joseph William. Metal cutting tool. 3,686,728, 8-29-72, Cl. 29-96.000.

Fried. Krupp Gesellschaft mit beschrankter Haftung: *See*—
Arens, Egidius; Muller-Lindemann, Dieter; and Triebold, Karl-Friedrich, 3,705,334.
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Aust, Manfred; and Smuda, Gerhard, 3,679,520.
Brylka, Rudolf; and Kleinwachter, Hans-Jurgen, 3,666,174.
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Fried, Robert. Muscle activity recorder. 3,683,893, 8-15-72, Cl. 128-2.00s.
Fried, Robert. Cradiac rhythm computer device. 3,698,386, 10-17-72, Cl. 128-2.06a.
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Friedel, Murray, to Visual Graphics Corporation. Photoprinting and processing device. 3,632,204, 1-4-72, Cl. 355-27.
Friedel, Murray, to Visual Graphics Corporation. Rapid photographic processing solutions and method. 3,653,904, 4-4-72, Cl. 96-50.
Friedel, Murray, to Visual Graphics Corporation. Film font cassette. 3,665,825, 5-30-72, Cl. 95-4.500.
Friedell, Morley V., to Martin-Marietta Corporation. Eyelid hybrid butterfly type poppet valve. 3,675,894, 7-11-72, Cl. 251-163.000.
Frieder, Leonard P., to Gentex Corporation. Sailing jacket. 3,646,626, 3-7-72, Cl. 9-342.
Friederich, Claude; and Cramazou, Etienne, to Societe Anonyme dite: Plastra. Closet for storage of clothing and the like. 3,679,280, 7-25-72, Cl. 312-6.000.
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Friedl, Edward L. Ground surface drainage apparatus. 3,670,894, 6-20-72, Cl. 210-164.000.
Friedl, Wolfgang; and Schafer, Volker, to Original Hanau Quarzlampen GmbH. Noble gas-molecular nitrogen laser. 3,679,997, 7-25-72, Cl. 331-94.500.
Friedland, Aaron J., to Atomic Power Development Associates, Inc. Fuel subassembly for nuclear reactor. 3,661,708, 5-9-72, Cl. 176-28.
Friedland, Kenneth, to Matchmaker Industries Inc. Hairpiece with simulated hairline. 3,683,941, 8-15-72, Cl. 132-53.000.
Friedland, V. & E., Limited: *See—*
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Friedlander, Richard F. Traveling agricultural sprinkler. 3,684,178, 8-15-72, Cl. 239-189.000.
Friedlander, Sidney Lee; and Blockley, Walter Vincent. Passive microclimate control system. 3,643,463, 2-22-72, Cl. 62-259.
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Friedman, Abraham. Collapsible shopping cart. 3,640,547, 2-8-72, Cl. 280-36.
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Friedman, Arnold I.; and Bartholomew, Ralph L., to General Electric Company. Application of conductive inks. 3,647,532, 3-7-72, Cl. 117-212.
Friedman, Arthur S., to Carey Press Corporation. Book having subdivisions and means to locate the first leaf of each subdivision. 3,700,264, 10-24-72, Cl. 283-38.000.
Friedman, Benjamin. Hypodermic syringe device which maintains sterile condition of needle. 3,640,278, 2-8-72, Cl. 128-218.
Friedman, Cecil A.; Scarcello, Francis J.; Shultz, Andrew; and Walter, Julius E., to Allied Chemical Corporation. Liquid detergent compositions. 3,634,271, 1-11-72, Cl. 252-545.
Friedman, David: *See—*
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Friedman, David; and Levy, Kenneth, to Computervision Corporation. Signal level-to-pulse rate converter. 3,660,782, 5-2-72, Cl. 332-1.
Friedman, David, to Computervision Corporation. Method and apparatus for positioner calibration system. 3,671,748, 6-20-72, Cl. 250-201.000.
Friedman, David; and Levy, Kenneth, to Computervision Corporation. Natural feeling common drive plotter-digitizer. 3,693,066, 9-19-72, Cl. 318-576.000.
Friedman, David; and Segal, Bernard Mortimer, to Singer Company, The, mesne. Response system with common circuitry for multiple functions. 3,694,935, 10-3-72, Cl. 35-48.00r.
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Friedman, Herman H., to General Foods Corporation. Molecular fractionation by pulsed centrifugation. 3,664,845, 5-23-72, Cl. 99-57.
Friedman, Ira J. Article carrier with lockable carrying handles. 3,692,218, 9-19-72, Cl. 224-45.00t.
Friedman, Jerome. Rotary marking tools. 3,640,212, 2-8-72, Cl. 101-7.
Friedman, Jerome D., to United States of America, Air Force. Nanosecond pulse height analyzer. 3,659,101, 4-25-72, Cl. 250-71.5.
Friedman, Jerrold; and Walker, Robert, to Columbia Broadcasting System, Inc. Light directing device having an elliptical reflecting face. 3,663,083, 5-16-72, Cl. 350-96.00r.
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Friedman, Lester, to Weston Chemical Corporation. Pentaerythritol diphosphites. 3,655,831, 4-11-72, Cl. 260-927.
Friedman, Maurice; Miller, Edward; and Pessiki, Anthony J., to Viz Manufacturing Company. Radiosonde apparatus and switching circuits suitable for use therein. 3,649,877, 3-14-72, Cl. 317-148.5.
Friedman, Mendel, to United States of America, Agriculture. Flame-resistant wool. 3,669,610, 6-13-72, Cl. 8-128.
Friedman, Milton, to Fischer & Porter Company. Fixed-frequency vehicle detector. 3,651,452, 3-21-72, Cl. 340-38.
Friedman, Milton, to Fischer & Porter Company. Pull-in and drop-out delay unit for vehicle detector in traffic-control system. 3,693,144, 9-19-72, Cl. 340-37.000.
Friedman, Milton I.; and Kordell, Theodore. Reciprocating engines. 3,659,502, 5-2-72, Cl. 92-84.000.
Friedman, Mitchell; Kamentsky, Louis A.; and Klinger, Isaac, to Bio/Physics Systems, Inc. Photoanalysis apparatus. 3,705,771, 12-12-72, Cl. 356-39.000.
Friedman, Morris, to Blockhead, Inc. Wig form and carrying case therefor. 3,658,174, 4-25-72, Cl. 206-8.
Friedman, Moshe; and Ury, Michael G., to United States of America, Navy. High power pulsed electron beam. 3,700,945, 10-24-72, Cl. 313-84.000.
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Friedrich, Hans-Helmut: *See—*
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Friedrich, Herbert; and Trapp, Gunther, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Basic hemicyanine dyestuffs. 3,679,674, 7-25-72, Cl. 260-240.800.
Friedrich, Howard R., to Hughes Aircraft Company. Laser lens cooling and cleaning system. 3,696,230, 10-3-72, Cl. 219-121.00l.
Friedrich, Kevin F., to Westinghouse Electric Corporation. Electrical bushing having stress grading layer disposed within solid insulation including a ground layer terminate at each end with a layer of material having a voltage dependent resistivity. 3,646251, 2-29-72, Cl. 174-142.
Friedrich, Kevin F., to Westinghouse Electric Corporation. Electrical bushing having a capacitor choir formed by overchapping capacitor elements. 3,692,928, 9-19-72, Cl. 174-143.000.
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Friedrichsen, Wilhelm; Poehler, Guenter; Goeschel, Gert; and Schaefer, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Filled reaction tube provided with temperature sensors. 3,656,914, 4-18-72, Cl. 23-288.
Friedrichsen, Wilhelm; and Goehre, Otto, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Supported catalysts containing vanadium pentoxide and titanium dioxide and their use for the production of carboxylic acids and carboxylic acids and carboxylic ahydrides. 3,684,741, 8-15-72, Cl. 252-435.000.
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Frielingsdorf, Hans; Mueller-Tamm, Heinz; and Mahling, Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of flat structural sandwich constructions. 3,634,166, 1-11-72, Cl. 156-244.
Frielingsdorf, Hans; Mueller-Tamm, Heinz; and Mahling, Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Method of producing metal-clad plastic panels. 3,684,610, 8-15-72, Cl. 156-244.000.
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Friend, Robert P.; and Friend, George R. Mobile frame and body straightener. 3,691,817, 9-19-72, Cl. 72-705.000.
Friend, Thomas Albert. Scald shield. 3,653,685, 4-4-72, Cl. 280-159.
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Frisch, Hans Otto, to Marker, Hannes. Toe iron for safety ski bindings. 3,682,494, 8-8-72, Cl. 280-11.35t.
Frisch, Hans Otto; and Payrhammer, Bernd, to Marker, Hannes. Toe- or heel-holding device for safety ski bindings. 3,692,322, 9-19-72, Cl. 280-11.35t.
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Frischkorn, Hans; Pintschovius, Ulrich; Schinzel, Erich; and Smerz, Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Naphthylene-bis-2-benzimidazoles. 3,641,051, 2-8-72, Cl. 260-309.2.
Frischkorn, Hans; and Schinzel, Erich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of naphthalene-1,4-dicarboxylic acid. 3,652,667, 3-28-72, Cl. 260-524.
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Frischman, Arnold. Foldable goal structure. 3,642,282, 2-15-72, Cl. 273-127.
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Fujimura, Hajime; Hori, Mikio; Masuda, Toru; Sawa, Yoichi; and Kato, Takeshi, to Takeda Chemical Industries, Ltd. Benzazocine derivatives. 3,686,167, 8-22-72, Cl. 260-239.0bb.

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Furnari, Peter C.; and Furnari, Samuel F. Golf game apparatus. 3,652,095, 3-28-72, Cl. 273-176.
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Furness, George R.: *See—*
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Furnier- und Sperrholzwerk, J. F. Werz, Jr., K.G.: *See—*
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Furst, Jozef; and Hovik, J. Kjell, to Datapac, Incorporated. Circulating current minimization scheme for a ready-only memory. 3,705,420, 12-5-72, Cl. 340-174.0sp.

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Furst, Stefan, to Reiners, Walter. Coil winding machine. 3,640,477, 2-8-72, Cl. 242-18.

Furst, Stefan, to Reiners, Walter. Unwinding device for filamentary material. 3,642,218, 2-15-72, Cl. 242-36.

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Furter, Oskar: *See—*
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Furth, Harold P.; and Yoshikawa, Shoichi, to United States of America, Atomic Energy Commission. Device for compression heating of tokamak discharges. 3,702,163, 11-7-72, Cl. 176-3.000.

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Furuichi, Masayoshi, to Katsuragawa Denki Kabushiki Kaisha. Method and apparatus for supplementing toner in electrophotographic machines. 3,698,926, 10-17-72, Cl. 117-17.500.

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Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiko; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, to Sumitomo Chemical Company, Ltd. and Sakai Chemical Industry Co., Ltd. Adhesive composition. 3,632,671, 1-4-72, Cl. 260-876.

Furukawa, Junji; and Morikawa, Hiroyuki, to Mitsubishi Petrochemical Co., Ltd. Production of cyclic trimers of dienes. 3,641,187, 2-8-72, Cl. 260-666.

Furukawa, Junji; Saegusa, Takeo; Onishi, Akira; Ishikawa, Takao; Anzai, Shiro; Irako, Koichi; Narumiya, Tsuneaki; and Ishizuka, Yuzo, to Bridgestone Tire Company Limited. Process for manufacturing butadiene-isoprene copolymer. 3,649,607, 3-14-72, Cl. 260-8.1.

Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiko; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, to Sumitomo Chemical Company, Ltd. and Sakai Chemical Industry Co., Ltd. Process for adhering rubber to rubber or metal with halogenated terpolymer ofethylene-α-olefins-nonconjugated diolefin. 3,657,046, 4-18-72, Cl. 156-315.

Furukawa, Kaoru: *See—*
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Furumoto, Horace W.; and Ceccon, Harry L., to United States of America, National Aeronautics and Space Administration. Optical pump and driver system for lasers. 3,659,225, 4-25-72, Cl. 332-7.51.
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Furuoya, Itsuo; Ogino, Katsuhiko; Kamatani, Yoshio; and Naito, Kenji, to Takeda Chemical Industries, Ltd. Method for the production of isoprene. 3,662,016, 5-9-72, Cl. 260-681.
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Furuta, Koichi, to Nippon Kogaku K.K. Battery cell storage device for miniature cameras. 3,682,060, 8-8-72, Cl. 95-11.00r.
Furuta, Koichi, to Nippon Kogaku K.K. Multi-exposure device for photographic cameras. 3,687,039, 8-29-72, Cl. 95-31.0ac.
Furuta, Koichi, to Nippon Kogaku K.K. Shutter safety device in a camera provided with an electric shutter. 3,693,524, 9-26-72, Cl. 95-31.0el.
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Furuta, Taizo; Otsuka, Yuichi; and Mizukawa, Kiyoshi, to Daito Boshoku Kabushiki Kaisha; a/k/a Daito Woolemspinning & Weaving Co., Ltd. Wool-washing waste-liquid treatment apparatus. 3,642,137, 2-15-72, Cl. 210-152.
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Fusco, Ralph L., to Wood Industries, Inc. Inking pump mechanism for printing machines. 3,636,873, 1-25-72, Cl. 101-366.
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Fuselier, Claude. Manufacture of plastic articles. 3,679,337, 7-25-72, Cl. 425-130.000.
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Fussell, Calvin Raymond, 1/2 to Jones, W. L., Jr. Meter for measuring the flow of gas. 3,645,138, 2-29-72, Cl. 73-401.
Fussell, Richard L., to Burroughs Corporation. Sensitive threshold over-the-peak signal detection systems. 3,659,208, 4-25-72, Cl. 328-31.
Fussell, Richard L., to Burroughs Corporation. Magnetometer sensor digital ambient nulling system. 3,679,969, 7-25-72, Cl. 324-43.00r.
Fussell, Richard L., to Burroughs Corporation. System for the detection and validation of signal peaks. 3,693,028, 9-19-72, Cl. 307-235.000.
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Fuths, Gustav, to Olympia Werke AG. Speed regulating device. 3,645,363, 2-29-72, Cl. 188-184.
Futrell, James Clyde. Combination lectern and table. 3,638,585, 2-1-72, Cl. 108-9.
Futter, Menachem, to Heat Timer Corporation. Time card recorder. 3,638,233, 1-25-72, Cl. 346-82.
Futterer, Bodo; and Fritschy, Hugo. Metal plate having stabilised friction properties. 3,643,331, 2-22-72, Cl. 30-346.54.
Futterer, Bodo. Method of making a cutting foil or plate for shavers. 3,655,528, 4-11-72, Cl. 204-11.
Futterer, Bodo. Electrodeposition process for producing perforated foils with raised portions at the edges of the holes. 3,655,529, 4-11-72, Cl. 204-11.
Futterer, Bodo; Stemme, Otto; and Mayer, Jurgen. Electrofilter for gases. 3,690,043, 9-12-72, Cl. 55-150.000.
Futterer, Bodo. Cylindrical coil winding for an electrical machine. 3,694,684, 9-26-72, Cl. 310-198.000.

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Doerr, Richard L.; and Fuzesi, Stephen, 3,692,880.
Fuzesi, Stephen; and Lapkin, Milton, to Olin Corporation. Open-cell polyurethane foams prepared from oxyethylated starch-phosphorus-containing polyethers. 3,674,717, 7-4-72, Cl. 260-2.5as.
Fuzesi, Stephen; and Lapkin, Milton, to Olin Corporation. Polyurethane foams prepared from oxypropylated and higher oxyalkylated starch-phosphorus-containing polyethers. 3,699,060, 10-17-72, Cl. 260-2.5ar.
Fuzinami, Nobuo: *See—*
Harada, Tetsuya; Fuzinami, Nobuo; Hasegawa, Koichi; and Shibatani, Akira, 3,656,980.
Fuziyoshi, Kenzi: *See—*
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Fuziyoshi, Kozi: *See—*
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Fuzzell, Joe E.: *See—*
Coleman, Donald F.; and Fuzzell, Joe E., 3,694,671.
Fuzzell, Joe E., to Caterpillar Tractor Company. Mechanism for controlling a vehicle from a remote location. 3,631,762, 1-4-72, Cl. 91-411.
Fuzzell, Joe E., to Caterpillar Tractor Company. Bucket positioning device utilizing a biased proximity switch. 3,659,734, 5-2-72, Cl. 214-764.
Fyanes, Robert V. Board game apparatus. 3,704,018, 11-28-72, Cl. 273-134.0ab.
Fydelor, Peter John; and Lovell, Keith Victor, to Surface Activation Corporation. Production of improved polymeric materials using electrical gas discharges. 3,687,832, 8-29-72, Cl. 204-165.000.
Fyens Saekkekom-pagni A/S: *See—*
Larsen, John, 3,692,070.
Fyler, Norman F., to Corning Glass Works. Photochromic fiber optic image storage device. 3,703,660, 11-21-72, Cl. 313-92.0lf.
Fymat, Alain L: *See—*
United States of America, National Aeronautics and Space Administration, 3,700,334.
Fyson, John William; and Truscott, John Raymond, to National Research Development Corporation. Inhibited demand pacer with a two-rate pulse generator. 3,661,157, 5-9-72, Cl. 128-419.
G & B Automated Equipment Limited: *See—*
Budai, Robert E.; and McDowell, Philip R., 3,688,814.
McDowell, Philip R.; and Vekovious, Charles W., 3,667,165.
G & H Mechanical Laboratory Inc.: *See—*
Germann, Albert G., 3,633,982.
Germann, Albert G., 3,667,097.
G & L Corporation: *See—*
Griffin, Kenneth H., 3,659,823.
G & L Industries, Inc.: *See—*
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G & W Electric Specialty Company: *See—*
Heppner, Donald R., 3,662,082.
Lusk, George E., 3,634,604.
G & W Products Company: *See—*
Geisler, Russell W.; and Wheaton, John W., 3,659,581.
G. C. Optronics Inc.: *See—*
Grant, Ralph M., 3,645,129.
G. D. Societa in Accomandita Semplice di Enzo Seragnoli e Ariosto Seragnoli: *See—*
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G. D. Societa in Accomandita Semplice di Enzo e Ariosto Seragnoli: *See—*
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G. D. Societa in Accomandita Semplice di Enzo Seragnoli E. Ariosto Seragnoli: *See—*
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G. Dumont et Freres, Societe Anonyme: *See—*
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G. I. Rubbish Company: *See—*
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G. K. N. Sankey Limited: *See—*
Greaves, John Alfred; and Shelley, Steven Victor, 3,648,889.
G. K. N. Somerset Wire Limited: *See—*
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G. T. Products, Inc.: *See—*
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G&M Industries, Inc.: *See—*
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G-L-J Toy Co., Inc., mesne: *See—*
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G-V Controls, Inc.: *See—*
Di Massimo, Donald V., 3,657,481.
Gil, Ramon, 3,702,905.
G-W Plastic Engineers, Inc.: *See—*
Miller, Manuel S., 3,669,592.
Gaa, Hans, to Frankl & Kirchner Fabrik fur Elektromotoren und elektrische Apparate, Firma. Contactless synchronizer, particularly for sewing machines. 3,683,294, 8-8-72, Cl. 331-65.000.
Gaarder, Gilbert W.; and Hollingsworth, Elmont E., to Gray Manufacturing Company, Inc. Transmission jack. 3,648,856, 3-14-72, Cl. 214-1.
Gaarder, Kenneth R.; and Leaf, William B., to Prototypes, Inc. Nonlinear electromyograph. 3,641,993, 2-15-72, Cl. 128-2.1.
Gabano, Jean-Paul; and Gerbier, Gerard Marcel, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Non-aqueous electrolyte for lithium electrochemical generators. 3,701,688, 10-31-72, Cl. 136-100.00r.
Gabarez, Mario, to Lever Brothers Company. Carrier carton. 3,688,969, 9-5-72, Cl. 229-28.00r.
Gabb, William J., to Fire Devices, Inc. Mounting for fire detector devices. 3,676,570, 7-11-72, Cl. 174-61.000.
Gabbard, Henry, to Standard Register Company, The. Trailing blade striping apparatus. 3,638,608, 2-1-72, Cl. 118-406.
Gabbard, O. Gener; and Kaul, Pradman, to Communications Satellite Corporation. Digital differential pulse code modulation system. 3,707,680, 12-26-72, Cl. 325-38.00b.
Gabbard, Ova G.: *See—*
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Gabbert, Ira: *See—*
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Gabbrielli, Guglielmo. High production machine for decorative printing of tiles or the like. 3,688,690, 9-5-72, Cl. 101-35.000.
Gabby, John Lester: *See—*
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Gabel, Floyd S. Powered cutter apparatus. 3,654,978, 4-11-72, Cl. 146-98.
Gabel, Floyd S. Sausage slicing apparatus. 3,669,167, 6-13-72, Cl. 146-98.000.
Gabel, Lloyd P.; and Simpson, William R. J., to Sandoz-Wander, Inc. Dialkyl-substituted-4-(hydroxyalkyl-bearing) aminoquinazoline nitrates. 3,637,699, 1-25-72, Cl. 260-256.4.
Gabel, Lloyd P.; and Simpson, William R. J., to Sandoz-Wander, Inc. Certain trialkoxy-substituted 4-aminoquinazoline nitrates. 3,637,700, 1-25-72, Cl. 260-256.5.
Gabel, Lloyd P.; and Simpson, William R. J., to Sandoz-Wander, Inc. Certain nitrate derivatives of 4-aminoquinazolines. 3,637,701, 1-25-72, Cl. 260-256.4.
Gabel, Thomas H.: *See—*
Zernov, Peter; Gabel, Thomas H.; and Abler, Norman C., 3,667,751.
Gaber, Martin. Reed switch construction. 3,665,136, 5-23-72, Cl. 200-166.
Gabillard, Robert; Louage, Francois; and Desbrandes, Robert, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process for prospecting of the ground layers surrounding a borehole. 3,690,164, 9-12-72, Cl. 73-151.000.
Gable, Gerald K. Absorption refrigeration machine. 3,693,373, 9-26-72, Cl. 62-476.000.
Gable, Larry P.; and Langley, Clyde H., to Card & Co., Inc. Narrow gauge hook bar for tufting machine. 3,635,177, 1-18-72, Cl. 112-79.
Gabler, Friedrich; and Giordan, Artur, to Drohmann, Carl, GmbH. Apparatus for loading pallets. 3,667,628, 6-6-72, Cl. 214-6.0dk.
Gabler, Hellmut; Harnisch, Heinz; Heymer, Gero; Merkenich, Karl; and Pirig, Wolf-Dieter, to Knapsack Aktiengesellschaft. Manufacture spray dried detergents containing sodium tripolyphosphorate. 3,639,287, 2-1-72, Cl. 252-135.
Gabler, Rudolf: *See—*
Studinka, Josef; and Gabler, Rudolf, 3,706,702.
Gabliks, Maigonis: *See—*
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Gabor, Andrew, to Diablo Systems, Inc. Apparatus for controlling the relative position between two relatively movable members. 3,663,880, 5-16-72, Cl. 318-603.

Gabor, Andrew, to Diablo Systems, Inc. Magnetic memory disk drive apparatus with reduced R. F. noise. 3,691,542, 9-12-72, Cl. 340-174.10b.
Gabor, Dennis, to Columbia Broadcasting System, Inc. Photo-electronic imaging apparatus. 3,676,732, 7-11-72, Cl. 315-10.000.
Gabor, William D., to Sanders Associates, Inc. Elongated switch bar apparatus. 3,665,126, 5-23-72, Cl. 200-5.00e.
Gabor, William D., to Sanders Associates, Inc. Keyboard apparatus. 3,668,695, 6-6-72, Cl. 340-365.000.
Gabor, William D., to Sanders Associates, Inc. High-speed synthesized field focus coil. 3,686,527, 8-22-72, Cl. 315-31.00r.
Gabriel, Ralph Parton, to Communications Patents Limited. Wired broadcasting systems. 3,693,090, 9-19-72, Cl. 325-308.000.
Gabrielsen, Rolf S.; and Olivares, Ismael A., to Eastman Kodak Company. Photographic composition, element and process. 3,672,896, 6-27-72, Cl. 96-66.0hd.
Gabrielsen, Rolf S.; and Olivares, Ismael A., to Eastman Kodak Company. Photographic developing process with amino hydroxy cycloalkenone. 3,690,872, 9-12-72, Cl. 96-66.0hd.
Gabrielsen, Rolf S.; and Olivares, Ismael A., to Eastman Kodak Company. Developing agent precursors. 3,700,442, 10-24-72, Cl. 96-29.000.
Gabuev, Georgy Kharitonovich: *See*—
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Podola, Nikolai Vasilievich; Bondarenko, Oleg Petrovich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovich; Smolyakov, Vadim Filimonovic; Eltsov, Konstantin Sergeevich; Gabuev, Georgy Kharitonovich; and Gladky, Dmitry Fedorovich, 3,693,700.
Gac, Robert: *See*—
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Gach, Francis X.; Fanton, Ralph E.; and Hazzard, Noel D., to Air Preheater Company, Inc., The. Burner for incinerator. 3,699,905, 10-24-72, Cl. 110-8.00a.
Gach, Peter P., to Sunbeam Plastics Corporation. Child proof cap for medicine bottles. 3,679,085, 7-25-72, Cl. 215-9.000.
Gach, Peter P.; and Leonard, Henry K., to Sunbeam Plastics Corporation. Double shell child-proof bottle cap. 3,685,676, 8-22-72, Cl. 215-9.000.
Gach, Peter P., to Sunbeam Plastics Corporation. Safety closure for medicine bottles and the like. 3,705,662, 12-12-72, Cl. 215-9.000.
Gach, Peter P., to Sunbeam Plastics Corporation. Child-proof overcap for an aerosol can. 3,706,401, 12-19-72, Cl. 222-153.000.
Gachot, Jean; and Perales, Fernand. Single-piston brake cylinder for a double-circuit compressed-air brake system. 3,656,813, 4-18-72, Cl. 303-2.
Gachot, Jean; and Perales, Fernand. Compressed-air actuator. 3,672,260, 6-27-72, Cl. 92-69.000.
Gachot, Jean; and Perales, Fernand. Compressed-air braking and locking system for trailers or semitrailers. 3,690,733, 9-12-72, Cl. 303-7.000.
Gackstetter, Henry Clinton; Anderson, Harold Francis; Shove, Gordon William; and Morin, Louis George, to Echlin Manufacturing Corporation, The. Tungsten electrical switching contacts. 3,671,314, 6-20-72, Cl. 117-213.000.
Gacs, Peter T.; and Shirzad, Paul P., to General Steel Industries, Inc. Loading bridge structure. 3,699,600, 10-24-72, Cl. 14-71.000.
Gadd, Edward George: *See*—
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Gaddy, Edward M., to United States of America, National Aeronautics and Space Administration. Optimum performance spacecraft solar cell system. 3,636,539, 1-18-72, Cl. 340-210.
Gaddy, Oscar L.; Holonyak, Nick, Jr.; Sirkis, Murray D.; and Baird, Jack R., to KDI Corporation. Optical spectrum analyzer. 3,636,255, 1-18-72, Cl. 178-6.8.
Gadient, Fulvio: *See*—
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Gadler, Gustav Ake Bernhard. Transfer device for use in cutting units for paper sheets. 3,701,441, 10-31-72, Cl. 214-8.5ss.
Gadomski, Walter A.; and Marziano, Bennedetto A., to United States of America, Army. Ammunition round. 3,687,078, 8-29-72, Cl. 102-42.00c.
Gadre, Jean-Claude: *See*—
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Gadsby, Brian; and Leeming, Michael R. G., to Wyeth, John, & Brother Limited. Enamine salt protection of steroidal α,β-unsaturated ketones. 3,646,012, 2-29-72, Cl. 260-239.5.
Gadsby, Brian; Leeming, Peter Rodway; and Thomas, Michael Barrie, to Pfizer Inc. Thio derivatives of 2-hydroxy-3-naphthoic acid. 3,686,291, 8-22-72, Cl. 260-516.000.
Gaebel, Ludwig; deceased (by Gaebel, Margot, born Welsch; administratrix). Butterfly valve with an articulated control. 3,658,293, 4-25-72, Cl. 251-228.000.
Gaebel, Margot, born Welsch: *See*—
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Gaebele, Rolf; and Jones, Jack H., to GTE Sylvania Incorporated. Automatic light control for low light level television camera. 3,691,302, 9-12-72, Cl. 178-7.200.
Gaeddert, Melvin V.; and Wiggers, Verlin, to Hesston Corporation. Stover saver for combines. 3,669,123, 6-13-72, Cl. 130-27.00r.
Gaeke, Edward G., to General Motors Corporation. Vehicle wheel slip control system and road grade sensor therefor and method of controlling wheel slip. 3,632,176, 1-4-72, Cl. 303-21.
Gaertner, Friedhelm: *See*—
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Gaertner, George W., to Shell Oil Company. Process for the production of dimethyl 1-methyl-2-(methylcarmoyl) vinyl phosphate. 3,699,194, 10-17-72, Cl. 260-969.000.
Gaetani, Bruno: *See*—
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Gaeth, Rudolf; Pfannmueller, Helmut; Stastny, Fritz; Trieschmann, Hans-George; Tatzel, Hermann; and Zizlsperger, Johann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of expanded ethylene copolymers. 3,632,532, 1-4-72, Cl. 260-2.5.
Gaeth, Rudolf; Stastny, Fritz; Breu, Rudolf; and Gaertner, Friedhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Thermally insulating transparent laminated glass with alkali metal silicate interlayer. 3,640,837, 2-8-72, Cl. 161-165.
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Gaeth, Rudolf H.; and Farrar, Ralph C., to Phillips Petroleum Company. Polymerization of 1-olefins with multifunctional initiator systems. 3,674,895, 7-4-72, Cl. 260-878.00b.
Gaetke, Hubert J. Resilient squeezable spray dispenser. 3,635,375, 1-18-72, Cl. 222-94.
Gaeumann, Ernst; deceased (by Gaeumann, Tino; legal representative); Prelog, Vladimir; Bickel, Hans; and Vischer, Ernst, to Ciba Corporation. Heavy metal complexes of trihydroxamic acids. 3,634,407, 1-11-72, Cl. 260-239.3.
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GAF Corporation: *See*—
Barabas, Eugene S.; and Fein, Marvin M., 3,635,868.
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Erb, Edward R.; and Maass, Richard L., 3,655,312.
Fein, Marvin M.; and Barabas, Eugene S., 3,637,567.
Field, Nathan D.; Randall, David I.; and Fitzpatrick, Jimmie D., 3,637,598.
Field, Nathan D.; Randall, David I.; and Fitzpatrick, Jimmie D., 3,640,934.
Field, Nathan D.; and Freyermuth, Harlan B., 3,657,197.
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Field, Nathan D.; and Williams, Earl P., 3,684,776.
Field, Nathan D.; and Williams, Earl P., 3,684,777.

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Hoffstadt, Walter F., 3,646,017.
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Randall, David I., 3,646,141.
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Schultz, Herman S.; Katzenstein, William; and Williams, Earl P., 3,676,408.
Sebestian, Allison, 3,659,862.
Smith, Edward A.; and Baldwin, Arnold V., 3,640,392.
Stahl, Clarence Richard, 3,661,531.
Stanley, Lester N.; and Farris, Russell E., Jr., 3,666,746.
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Gaffard, Jean Paul; Glangeaud, Yves; and Suppo, Jose, to Thomson-CSF Visualisation et Traitement des Informations (T.V.T.). Infrared image conversion apparatus. 3,632,868, 1-4-72, Cl. 178-6.8.

Gaffney, Bernard J., to Conwed Corporation. Method for the extrusion of plastic net and net like structures. 3,700,521, 10-24-72, Cl. 156-167.000.

Gaffney, Francis J.; Degen, Joseph F.; and Clark, Gerald F., to North American Philips Corporation. Electrically heated hair curler. 3,673,382, 6-27-72, Cl. 219-222.000.

Gagarine, Dmitry M., to Deering Milliken Research Corporation. Process for imparting soil-releasing and anti-soil redeposition properties to textile materials. 3,674,548, 7-4-72, Cl. 117-139.50a.

Gage, Arthur, to North American Rockwell Corporation. Apparatus for removing a weld upset. 3,662,941, 5-16-72, Cl. 228-2.000.

Gage, Charles H. Chair-arm cup receptacle. 3,675,969, 7-11-72, Cl. 297-194.000.

Gage, Frank H.; and Zabel, Marvin L., to Dyna-Jet Corporation, The. Washing apparatus. 3,674,211, 7-4-72, Cl. 239-247.000.

Gagel, Charles T., to Industrial Services of America, Inc. Lid lock for front end loader container. 3,687,317, 8-29-72, Cl. 214-304.000.

Gagel, Charles T., to Industrial Services of America, Inc. Load ejection plate for container. 3,688,944, 9-5-72, Cl. 220-93.000.

Gager, Morgan E., to Plastic Coating Corporation, The. Electrostatographic recording element. 3,639,640, 2-1-72, Cl. 117-224.

Gager, Morgan E. Surface coating compositions and articles coated therewith. 3,652,490, 3-28-72, Cl. 260-41.

Gageur, Fritz: *See—*
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Gaggero, Giancarlo; Mongini-Tamagnini, Carla; and Settipani, Antoine, to European Atomic Energy Community (Euratom). Circular calculator for the solution of problems connected with electromagnetic radiation penetration. 3,700,162, 10-24-72, Cl. 235-78.000

Gaggini, Carlo: *See—*
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Burgermeister, Ulrich; Gaggini, Carlo; and Wurmli, Arthur, 3,681,906.

Gaghan, Stephen B., to Van Vlaandern Machine Company. Roll for applying uniform pressure. 3,638,292, 2-1-72, Cl. 29-113.

Gagin, Lawrence Vincent, to Johns-Manville Corporation. High temperature insulating fiber. 3,687,850, 8-29-72, Cl. 252-62.000.

Gagin, Lawrence Vincent; and Hull, Glenn Ralph, to Johns-Manville Corporation. Die pad for extruding hot metals. 3,690,135, 9-12-72, Cl. 72-42.000.

Gagle, Duane W.: *See—*
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Franklin, Marvin L.; and Gagle, Duane W., 3,632,415.

Gagle, Duane W.; and Bennett, Richard J., to Phillips Petroleum Company. Surface treatment composition and method. 3,639,317, 2-1-72, Cl. 260-23.

Gagliani, John, to International Business Machines Corporation. Quenching injection molded polycarbonate parts or fatigue resistance. 3,673,289, 6-27-72, Cl. 264-28.000.

Gagliardi, Domenick D.; deceased (by Gagliardi, Frances Dodge; executrix), to Union Carbide Corporation. Dyeable resin bonded fibrous substrates. 3,653,952, 4-4-72, Cl. 117-126.

Gagliardi, Domenick D.; and Cicione, Robert J., to Commercial Solvents Corporation. Process for binding pigments to textiles. 3,661,632, 5-9-72, Cl. 117-143.

Gagliardi, Domenick Donald: *See—*
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Beattie, Willard H.; and Gallaway, William S., 3,640,627.
Galle, Edward N., to Hughes Tool Company. Hydraulic impactor methods and apparatus. 3,699,675, 10-24-72, Cl. 60-52.0hf.
Gallegos, James P., Sr. Reaction powered toy flying craft. 3,700,172, 10-24-72, Cl. 239-188.000.
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Gallien, Jacqueline: *See—*
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Galligan, John D.: *See—*
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Gallimore, John W. Dual self-cleaning rake. 3,636,689, 1-25-72, Cl. 56-400.1.
Gallin, Lawrence F.: *See—*
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Gallina, Harold. Control circuit responsive to synch signals. 3,691,544, 9-12-72, Cl. 340-174.10b.
Gallina, Harold, to Optisonics Corporation. Control circuit for single frame film advance audio projector. 3,700,319, 10-24-72, Cl. 353-15.000.
Gallistel, Albert F.; and Posthumus, Warren R., to Pako Corporation. Incremental web feeding means. 3,635,387, 1-18-72, Cl. 226-141.
Gallo, Carl, to American Pollution Control Corporation. Pollution control system. 3,699,906, 10-24-72, Cl. 110-8.00e.
Gallo, Mario, to Gallo Wirth & Co. Electrical mass meter. 3,692,128, 9-19-72, Cl. 177-210.000.
Gallo, Mario S.: *See—*
Rosenblatt, Leonard; Horn, Chris C.; and Gallo, Mario S., 3,704,905.
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Gallo, Thomas: *See—*
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Galloway, Dudley L.: *See—*
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Galloway, Dudley L., to Westinghouse Electric Corporation. Transformer having a non-metallic casing. 3,644,858, 2-22-72, Cl. 336-92.
Galloway, Dwight V.; King, Gordon E.; Asbelle, Charles C.; and Arrigo, Michael F., to United States of America, Navy. Rigid foam polyurethane hand splint. 3,703,894, 11-28-72, Cl. 128-77.000.
Galloway, Edwin J., to Galloway Company. Telescoping dip tube assembly. 3,674,179, 7-4-72, Cl. 222-94.000.
Galloway, James H., to Udylite Corporation, The. Controlled time ratio system. 3,648,078, 3-7-72, Cl. 307-260.
Galloway, James M., to Bethlehem Steel Corporation. Spiral wire fastener for sheets of material. 3,653,171, 4-4-72, Cl. 52-521.
Galloway, James Wilson: *See—*
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Galloway, Leslie C., to Canadian Westinghouse Company Limited. Thrust bearing. 3,635,533, 1-18-72, Cl. 308-9.
Galloway, Reginald B.; and Shumard, Raymond F., to Lilly, Eli, and Company. Ascaris suum vaccine. 3,676,547, 7-11-72, Cl. 424-88.000.
Galloway, Robert L., to Morganite Resistors Limited. Electrical resistance elements. 3,682,839, 8-8-72, Cl. 252-508.000.
Galloway, Roderick S.; Swartz, Horace M.; and Walsh, Joseph H., to FMC Corporation. Low profile truck tow conveyor system. 3,662,690, 5-16-72, Cl. 104-172.
Gallucci, Francis, to United States Steel Corporation. Stacking device. 3,643,818, 2-22-72, Cl. 214-6.
Gallup, Arthur R., to Du Pont de Nemours, E. I., and Company. Process for producing polytetrafluoroethylene filaments. 3,655,853, 4-11-72, Cl. 264-127.
Galluppi, Filippo B., to Venus Scientific Inc. Switching high-voltage power supply. 3,659,190, 4-25-72, Cl. 323-22.
Gallus, Manfred: *See—*
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Galluzzo, Anthony: *See—*
Davis, Donald A.; and Galluzzo, Anthony, 3,700,300.
Galmiche, Philippe Marie; and Hivert, Andre, to Office National d'Etudes et de Recherches Aerospatiales. Method of forming chromium and aluminum diffusion alloys on metal pieces. 3,690,934, 9-12-72, Cl. 117-107.20p.
Galonek, Edward A., to Omnitech Inc. Flight deck goggle. 3,691,565, 9-19-72, Cl. 2-14.00h.
Galowin, Lawrence S.: *See—*
Bilinski, Donald J.; Galowin, Lawrence S.; and Napolitano, Michael, 3,675,711.
Galpin, Harold Henry, to Quickmaid Vending Services Limited. Vending machine control metering system. 3,651,466, 3-21-72, Cl. 340-150.
Galter, Helmut, to Rheinstahl Huttenwerk AG. Scrap mill. 3,650,483, 3-21-72, Cl. 241-186.
Galutva, Gennady Vasilievich; Ryazantsev, Alek Iosifovich; Presnyakov, Gennady Stepanovich; and Modestov, Jury Konstantinovich. Device for precision displacement of a solid body. 3,684,904, 8-15-72, Cl. 310-8.000.
Galvanoni, Aldo B.: *See—*
Fritz, Richard C.; and Galvanoni, Aldo B., 3,640,049.
Galves, Jean-Pierre; Monfroy, Henri; and Reboul, Jean-Philippe, to Thomson-CSF. Gas discharge display panel with mineral powder between apertured matrix and envelope seal. 3,706,899, 12-19-72G, Cl. 313-188.000.
Galvin, Aaron A., to Aerospace Research, Inc. Ultrasonic intrusion alarm. 3,665,443, 5-23-72, Cl. 340-258.00a.
Galy, Michel, to Societe Anonyme dite: Institut Merieux. Package for ampoules containing lyophilized products. 3,640,437, 2-8-72, Cl. 225-96.5.
Gam Rad, Inc.: *See—*
Shea, James J.; and Kouba, Russell W., 3,635,215.
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Gamache, Larry D.; Miller, Christopher F.; and Barr, Kenneth W., to Beckman Instruments, Inc. Simplified means of skipping selectable segments of a timed program. 3,638,189, 1-25-72, Cl. 340-147.
Gamache, Norman M., to Norton Company. Lapping method for metallic workpieces. 3,638,366, 2-1-72, Cl. 51-326.
Gamari, Francis J.: *See—*
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Gamarra, Jose P.; Swidler, Ronald; and Wilson, Katherine W., to Cotton, Incorporated. Delayed cure process using formaldehyde vapor to cause creaseproofing. 3,653,805, 4-4-72, Cl. 8-116.

Gamaunt, Roger L.: *See—*
Nichols, John B.; and Gamaunt, Roger L., 3,679,154.
Gambale, James Richard; McIntyre, Glenn Hazel, Jr.; and Ranney, Fredrik J., to Tizon Chemical Corporation. Process for preparing basic zirconium sulfates and other zirconium compounds such as zirconium fluosulfates, and compositions containing the same. 3,72,825, 6-27-72, Cl. 23-15.
Gambale, James Richard; and Stone, Henry Asaph, III, to Tizon Chemical Corporation. Glass polishing compositions based on zircon and/or zirconia and zirconium fluosulfate and polishing process using the same. 3,685,218, 8-22-72, Cl. 51-283.000.
Gambaretto, Giampaolo: *See—*
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Gamble, Edward Bernard, to RCA Corporation. Logic gate. 3,641,362, 2-8-72, Cl. 307-215.
Gamble, Edward Bernard; and Aires, Ramon Hess, to RCA Corporation. Logic circuit which turns on and off rapidly. 3,641,368, 2-8-72, Cl. 307-254.
Gamble, Edward R., to American Air Filter Company, Inc. Fire retardant container. 3,702,592, 11-14-72, Cl. 109-29.000.
Gamble, Fred R., to Synvar Associates. X-ray diffraction grating crystals. 3,688,109, 8-29-72, Cl. 250-51.500.
Gamble, John G., to Veeder Industries Inc. Drive circuit for pulsed inductive windings. 3,668,374, 6-6-72, Cl. 235-92.00c.
Gamble, Ralph S., to Simmonds Precision Products, Inc. Depth sensing switch with tubular housing having a diaphragm encompassing a portion of said housing. 3,706,864, 12-19-72, Cl. 200-83.00b.
Gamble, Robert P.: *See—*
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Gamblin, Rodger L.; and Southard, Carl D., to International Business Machines Corporation. Holographic read/write storage system. 3,656,827, 4-18-72, Cl. 350-3.5.
Gambs, Paul Frederic Marie, to Societe Anonyme dite: Gambs S.A. Slit or spot lamp stereo microscope. 3,652,153, 3-28-72, Cl. 351-14.
Gamco Industries, Inc., mesne: *See—*
Gundlach, Richard P., 3,671,736.
Game Time, Inc.: *See—*
Ewers, Ronald L., 3,675,919.
Gamer, Nicholas T.; and Richardson, James G., to Western Gold & Platinum Company. High temperature brazing alloy. 3,702,763, 11-14-72, Cl. 75-173.00r.
Games, Abram. Copying. 3,686,014, 8-22-72, Cl. 117-1.700.
Gammill, Adrian Monroe; Guinn, Franklin Keith; Bird, Urban S.; and Housholder, William R., to Nuclear Fuel Services, Inc. Metal vapor coating apparatus. 3,667,423, 6-6-72, Cl. 118-48.000.
Gammill, Benny B.; Ladewig, Glen R.; and Ham, George E., to Dow Chemical Company, The. Ion exchange catalysts for the preparation of bisphenols. 3,634,341, 1-11-72, Cl. 260-2.2.
Gammill, Edward L.; Hughes, Nick M.; and Rhoden, James A., to Garrett Corporation, The. Variable area nozzle seal. 3,645,645, 2-29-72, Cl. 415-163.
Gammon, Geoffrey James, to British Petroleum Company, Limited, The. Aqueous suspension polymerisation process for vinyl halides. 3,663,482, 5-16-72, Cl. 260-17.00r.
Gamon-Calmet Industries, Inc.: *See—*
Evans, Ross Hugh; Seltzer, Daniel Arron; and Young, Robert Leonard, 3,700,816.
Masson, Narinder; Korenicki, William John; and Lechner, Walter Ludwig, 3,677,084.
Rosano, Joseph George, Jr.; and Coffman, J. D., 3,662,600.
Gamson, Bernard William. Petroleum coke production. 3,684,697, 8-15-72, Cl. 208-131.000.
Gamson, Michael J. Jumper cable. 3,678,438, 7-18-72, Cl. 339-29.00b.
Gamundi, Reynold F., to Eaton Corporation. Steering and traction assembly. 3,648,796, 3-14-72, Cl. 180-52.
Gancarz, Walter F.: *See—*
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Gancher, Elias. Gauge and light signal. 3,691,986, 9-19-72, Cl. 116-129.000.
Ganci, James B.; and Mastrangelo, Sebastian V. R., to Du Pont de Nemours, E. I., and Company. Process for electrolytic hydrodimerization of alpha, beta-unsaturated compounds. 3,647,651, 3-7-72, Cl. 204-73.
Gancy, Alan B., to FMC Corporation. High surface area chrysotile and method of making same. 3,652,382, 3-28-72, Cl. 162-3.
Gandelman, Morris D., to Pale Corporation. Bracelet connector. 3,670,373, 6-20-72, Cl. 24-265.0sh.
Gandilhon, Pierre: *See—*
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Gandon, Louis: *See—*
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Gandon, Louis; Jean, Roger; and Lenoble, Philippe, to Le Nickel. Process for treatment of mattes and sulphurated nickel concentrates. 3,656,937, 4-18-72, Cl. 75-101.
Gandon, Louis; Jean, Roger; and Lenoble, Philippe, to Le Nickel. Process for the purification of nickel containing solutions. 3,656,940, 4-18-72, Cl. 75-119.
Gandon, Louis; Bozec, Christian; and Lenoble, Philippe, to Le Nickel. Process for the separation of impurities from nickel chloride solutions. 3,660,020, 5-2-72, Cl. 23-87.
Gandon, Louis; Bozec, Christian; Lenoble, Philippe; Lemarinel, Robert; and Fer, Pierre, to Le Nickel. Extraction of cobalt and nickel from laterite. 3,661,564, 5-9-72, Cl. 75-101.
Gandrud, Ebenhard S. Feeding rotor for dispensers of granular material. 3,704,816, 12-5-72, Cl. 222-368.000.
Gandrud, William Bentley: *See—*
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Gangawere, Lloyd B., to Westinghouse Electric Corporation. Rectangular to polar display converter. 3,684,915, 8-15-72, Cl. 315-23.000.
Gangi, Raymond Paul, to Woolsey Marine Industries, Inc. Method of coating with slow-gelling polyester composition. 3,653,954, 4-4-72, Cl. 117-132.
Ganiaris, Neophytos, to Struthers Patent Corporation. Concentration of coffee. 3,636,722, 1-25-72, Cl. 62-123.
Ganiaris, Neophytos, to Struthers Scientific and International Corporation. Coffee freeze concentration apparatus. 3,656,315, 4-18-72, Cl. 62-124.000.
Ganiaris, Neophytos, to Struthers Scientific and International Corporation. Desalination process. 3,675,436, 7-11-72, Cl. 62-58.000.
Gankin, Vladimir Borisovich: *See—*
Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballad, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, AnatolyIvanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
Gannaway, Edwin L., to Copeland Refrigeration Corporation. Compressor and method of lubrication. 3,695,786, 10-3-72, Cl. 417-437.000.
Gannett, James R.; Annin, Gordon D.; and Gjerding, Bradley K., to Boeing Company, The. Flight management display. 3,668,622, 6-6-72, Cl. 340-27.00r.
Gannoe, Thomas E.: *See—*
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Gannoe, Thomas E., to Sylvania Electric Products, Inc. Anti-dieseling device for internal combustion engines. 3,635,203, 1-18-72, Cl. 123-198.
Gannon, Harry: *See—*
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Gannon, John Allister; and Tracton, Arthur Allen, to Ciba-Geigy Corporation. Resins produced from the reaction of epoxides and dimethylol-propionic acid. 3,707,526, 12-26-72, Cl. 260-47.0ea.
Gannon, John J.; and Mehmedbasich, Enver, to Chevron Research Company. Purge for preventing pipeline contamination. 3,657,121, 4-18-72, Cl. 252-8.3.
Gano, Barclay P.: *See—*
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Gano, John W.; and Schlafly, Paul W., to Warner & Swasey Company, The. Boom assembly. 3,666,125, 5-30-72, Cl. 214-141.000.
Ganong, William L., Jr.; Bryant, Furnie S.; Neill, Henry R.; and Davies, Robert G., to Burlington Industries, Inc. Data monitoring system. 3,648,027, 3-7-72, Cl. 235-92.
Ganowsky, Raymond J., to Cliftronics, Inc. Rotary solenoid. 3,671,898, 6-20-72, Cl. 335-228.000.
Ganowsky, Raymond J., to Cliftronics, Inc. Hinge means for a rotary solenoid armature. 3,680,015, 7-25-72, Cl. 335-228.000.
Ganowsky, Raymond J., to Cliftronics, Inc. Rotary stepping solenoid. 3,693,124, 9-19-72, Cl. 335-228.000.
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Gans, Frederick: *See—*
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Gans, Michael James; and Reudink, Douglas Otto John, to Bell Telephone Laboratories, Incorporated. Diversity communication system using distinct spectral arrangements for each branch. 3,662,268, 5-9-72, Cl. 325-56.
Ganser, Josef: *See—*
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Wagner, Karl; and Ganser, Josef, 3,672,270.
Ganser, Wilhelm, to Uniroyal Englebert Deutschland AG. Apparatus for making timing belts. 3,665,609, 5-30-72, Cl. 33-32.
Ganser, Wolfgang, to Siemens Aktiengesellschaft. Method for producing metal contacts for mounting semiconductor components in housings. 3,650,826, 3-21-72, Cl. 117-217.
Gansert, Willi: *See—*
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Gansheimer, Josef; and Schanzer, Oswald, to Dow Corning Corporation. Extreme pressure lubrication through additives. 3,677,946, 7-18-72, Cl. 252-51.50a.
Ganske, Kingston E.: *See—*
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Ganske, Kingston E., to Arvin Industries, Inc. Television recording system with alternate period inversion and automatic frequency control. 3,641,265, 2-8-72, Cl. 178-6.6.
Ganske, Kingston E., to Arvin Industries, Inc. Reversible tape transport with interlocked head position and tape direction control. 3,641,279, 2-8-72, Cl. 179-100.2.
Gansloser, Emil. Swimming pool construction. 3,670,343, 6-20-72, Cl. 4-172.130.
Gansloser, Helmut, to Wachs, Otto. Tobacco-smoke filter and method of making same. 3,650,279, 3-21-72, Cl. 131-262.
Gant, Preston L., to Continental Oil Company. Process for the trapping of mercury vapors and apparatus therefor. 3,693,323, 9-26-72, Cl. 55-72.000.
Ganter, Wolfgang: *See—*
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Ganter, Wolfgang; and Kunz, Georg, to Gebruder Junghans G.m.b.H. Electric striking mechanism for time pieces. 3,689,919, 9-5-72, Cl. 340-392.000.
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Gantschnigg, Gottfried K.; and Wameling, Richard F., to Arinc Research Corporation. Compound hydrostatic bearing for rotary radial piston hydraulic machines. 3,650,180, 3-21-72, Cl. 91-488.
Gantt, Kenneth T. Hair trigger burglar alarm. 3,690,286, 9-12-72, Cl. 116-86.000.
Gantt, Kenneth T. Burglar alarm fixed to door or the like. 3,695,212, 10-3-72, Cl. 116-8.000.
Gantt, Wayne Carlton: *See—*
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Gantz, Emmett J. Height adjustable basketball hoop and punching rack. 3,650,530, 3-21-72, Cl. 272-78.
Gantzler, Charles Y. Bricklayers tool holder. 3,669,396, 6-13-72, Cl. 248-309.000.
Ganz, Robert H. Packaging machine and method. 3,660,961, 5-9-72, Cl. 53-26.
Ganz, Robert H. Method and apparatus for grouping containers on a conveyor. 3,680,678, 8-1-72, Cl. 198-34.000.
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Ganzhorn, Harry E., to Raychem Corporation. Self-locking heat shrinkable insulating sleeve. 3,678,174, 7-18-72, Cl. 174-84.00r.
Ganzina, Fabrizio: *See—*
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Gaon, Bernard; Goldfarb, Stuart; and Goldfarb, Adrienne R., to Goldfarb, Stuart J. and said Gaon assor. to said Goldfarb, Adrienne R. Programmed time-responsive audio message and reminder device. 3,647,991, 3-7-72, Cl. 179-100.2.
Gapoian, Dmitry Trdatovich: *See—*
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Gapp, Roland Howard; Alazraki, Marcos; and Harper, John, to Textron, Inc. Multimetal blind rivets and pulling stems. 3,685,391, 8-22-72, Cl. 85-77.000.
Gar Honing Service, Inc.: *See—*
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Gara, George; and Thorncroft, Roy Charles, to International Standard Electric Corporation. Time division multiplex PAX of the four wire type. 3,657,486, 4-18-72, Cl. 179-18.
Garabedian, Michael E.: *See—*
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Garabedian, Ross V. Method and seed pellet for use in planting agricultural crops. 3,651,772, 3-28-72, Cl. 111-1.
Garabrant, Arthur R.; Beerbower, Alan; and Wilson, James A., to Esso Research and Engineering Company. Method and apparatus for measuring the yield stress of non-Newtonian fluids. 3,696,661, 10-10-72, Cl. 73-54.000.
Garagnon, Gary B.: *See—*
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Garand, Donald J.: *See—*
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Garavelli, Giancarlo, to Heron Establishment. Container for combining gas with a liquid mixture and for conveying the mixture thereby obtained to a machine, particularly for use in ice cream making machines. 3,660,988, 5-9-72, Cl. 62-306.000.
Garavelli, Giancarlo, to Heron Establishment. Device for making aerated soft drinks. 3,674,244, 7-4-72, Cl. 261-18.00b.
Garaway, Mark W., to Westinghouse Electric Corporation. Zero crossing detector. 3,693,027, 9-19-72, Cl. 307-133.000.
Garbalizer Corporation of America: *See—*
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Brewer, John C., 3,660,038.
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Garbarini, Victor Charles: *See—*
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Garbark, Roman F.: *See—*
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Garbe, William F., to Eastman Kodak Company. Fusing device. 3,649,808, 3-14-72, Cl. 219-216.
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Garber, Alexander. Golf course. 3,671,042, 6-20-72, Cl. 273-176.0ab.
Garber, Daniel C., to Sun Shipbuilding & Dry Dock Company. Welded joint and method of fabricating same. 3,632,148, 1-4-72, Cl. 287-189.36.
Garber, Harold J., to United States of America, Atomic Energy Commission, mesne. Radioisotope fuel. 3,632,520, 1-4-72, Cl. 252-301.1.
Garbett, Charles Richard, to Shell Oil Company. Process for retorting oil-bearing shale. 3,634,225, 1-11-72, Cl. 208-11.
Garbin, Albert: *See—*
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Garbisch, Walter E. Protective hood for crash helmets. 3,660,850, 5-9-72, Cl. 2-2.
Garbisch, Walter E. Protective helmet with hood. 3,668,705, 6-13-72, Cl. 2-10.000.
Garbor, Andrew, to Diablo Systems, Inc. Speed control system having high and low level speed means. 3,638,089, 1-25-72, Cl. 318-318.
Garboushian, Vahan, to TRW Inc. Packaging structure for high frequency semiconductor devices. 3,649,872, 3-14-72, Cl. 317-234.
Garbrecht, William L., to Lilly, Eli, and Company. Cephalexin synthesis. 3,632,850, 1-4-72, Cl. 260-243.
Garbuzov, Vladimir Mikhailovich: *See—*
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Garcea, Giampaolo, to Alfa Romeo S.p.A. Hydraulic pump having non-radial cylinders contained in a rotor. 3,682,046, 8-8-72, Cl. 91-499.000.
Garceau, Harry A., to Webster Spring Co. Inc. Spring assembly and method of making the same. 3,660,854, 5-9-72, Cl. 5-267.
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Garcia, Banancio. Connecting device. 3,670,291, 6-13-72, Cl. 339-92.00m.

Garcia, Bernabe V. Smoke cleaning device. 3,691,731, 9-19-72, Cl. 55-223.000.
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Garcia, Julian; and Carroll, James C., to International Telephone and Telegraph Corporation. Single channel carrier telephone system. 3,700,817, 10-24-72, Cl. 179-2.50r.
Garcia, Julian A., to International Telephone and Telegraph Corporation. Error detector circuit. 3,646,453, 2-29-72, Cl. 328-118.
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Garday, Louis C.; and Nemechek, Arthur A., to Lockheed Aircraft Corporation. Leakage flow monitor. 3,673,855, 7-4-72, Cl. 73-40.000.
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Gardel, Robert; and Gorsky, Egon, to Mattel, Inc. Crank operated dancing doll. 3,672,097, 6-27-72, Cl. 46-120.000.
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Gardner, Fred M.; Gervais, Joseph R.; and Nettleton, Frank S., to United Aircraft Corporation. Brazing alloy for bonding thermionic cathode to support. 3,668,457, 6-6-72, Cl. 313-346.000.
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Gardner, Irwin J.; and Manuel, Thomas A., to Esso Research and Engineering Company. Moisture-curable polymers. 3,644,315, 2-22-72, Cl. 260-85.3.
Gardner, Jimmy D., to Mission Manufacturing Company. Cutter insert for rock bits. 3,693,736, 9-26-72, Cl. 175-410.000.
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Garilli, Francesco; and Marino, Michelangelo, to Montecatini Edison S.p.A. Apparatus for the drawing of samples of gaseous mixtures to be analyzed. 3,675,489, 7-11-72, Cl. 73-421.50r.
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Garland, Charles. Waterfront driving range. 3,649,025, 3-14-72, Cl. 273-176.
Garland, Charles; Victory, James J.; and Latimer, John P., to Deepsea Ventures, Inc. Method and apparatus for confining and collecting an oil slick. 3,666,098, 5-30-72, Cl. 210-83.000.
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Garnett, Donald, to Allis-Chalmers Manufacturing Company. Neutral device for internal combustion engine powered trucks. 3,700,062, 10-24-72, Cl. 180-101.000.
Garnett, Donald W., to Mahogany Farms, Inc., mesne. Material compacting equipment. 3,647,343, 3-7-72, Cl. 425-350.
Garnett, Donald W., to Mahogany Forms, Inc., mesne. Apparatus for blending and portioning meat and other products. 3,683,793, 8-15-72, Cl. 99-450.100.
Garnett, John Baron: *See—*
Rees, Donald Frank; Garnett, John Baron; and Richardson, Michael Alexander, 3,640,076.
Garnett, Philip, to Hunslet (Holdings) Limited. Tow-bar assembly. 3,649,048, 3-14-72, Cl. 280-477.
Garnett, Robert E., to Richards Manufacturing Company. Hanging sling for arm cast. 3,706,310, 12-19-72, Cl. 128-94.000.
Garnier, Andre, to Potain. Mobile chassis for carrying a tower crane. 3,638,805, 2-1-72, Cl. 212-38.
Garnier, Georges, to Roto-Diesel. Machine for honing blind-end bores. 3,645,047, 2-29-72, Cl. 51-92.
Garnier, Georges, to Roto-Diesel, Clichy (Hauts-de-Seine). Fuel injection pumps for combustion engines. 3,650,259, 3-21-72, Cl. 123-140.
Garnier, Georges, to Roto-Diesel. Electromagnetic fuel injectors. 3,667,686, 6-6-72, Cl. 239-585.000.
Garnier, Georges, to Roto Diesel Clichy. Electromagnetic injectors. 3,705,692, 12-12-72, Cl. 239-585.000.
Garnier, Henri Louis, to Compagnie Francaise des Petroles. Electric generator drive. 3,702,938, 11-14-72, Cl. 290-52.000.
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Garnier, Marcel, to Micro-Mega S.A. Sterilizable handpiece of the slip-sleeve type. 3,657,818, 4-25-72, Cl. 32-27.
Garnier, Michel; and Bigou, Jacques, to Societe Lannionnaise d'Electronique. Mounting arrangement for integrated circuits heat sink. 3,686,533, 8-22-72, Cl. 317-100.000.
Garnier, Michel Robert; and Rioux, Christian Paul Gilbert, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Jet propulsion power plant. 3,678,306, 7-18-72, Cl. 310-11.000.
Garnier, Robert C., Jr. Magnetic transducer having two core members of distinctly different magnetic field carrying characteristics. 3,686,468, 8-22-72, Cl. 179-100.20c.
Garnier, Roger, to Rhone-Poulenc S.A. Painting moist plaster. 3,632,394, 1-4-72, Cl. 117-72.
Garnier, Roger; Hogenmuller, Roger; and Massebeuf, Jacques, to Rhone-Poulenc S.A. Coating compositions based on vinyl polymers. 3,660,348, 5-2-72, Cl. 260-41.
Garnish, Artur Maximovich; Shafransky, Lev Moiseevich; and Ischerikova, Galina Antonovna. Catalyst for oxidation of olefins. 3,679,603, 7-25-72, Cl. 252-432.000.
Garnish, Edward William, to Ciba Limited. Film adhesives of polyvinyl chloride and epoxide resins. 3,634,169, 1-11-72, Cl. 156-309.
Garnish, Sidney George: *See—*
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Garofalo, Dominic. Propeller spinner for model airplanes. 3,703,341, 11-21-72, Cl. 416-245.000.
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Garofano, Norman R.; and Follows, Alan G., to Allied Chemical Corporation. Process for increasing bulk density of sodium carbonate by the addition of calcium ion. 3,705,790, 12-12-72, Cl. 23-302.000.
Garrahan, William F.; Madden, Edwin J.; and Picard, Clarence J. Bandage construction. 3,699,959, 10-24-72, Cl. 128-166.000.
Garratt, Joseph A.; and Ash, Leonard P., to Babcock Electronics Corporation. Magnetic actuator. 3,673,529, 6-27-72, Cl. 335-234.000.
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Sobin, Ben A.; Routien, John B.; Rao, Koppaka V.; Marsh, William S.; and Garretson, Aline L., 3,646,194.
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Garretson, Keith H.; and Garretson, Owen L. Carburetor fuel-air proportioning mechanism. 3,669,636, 6-13-72, Cl. 48-180.00p.
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Garrett, Charles L. Apparatus for locating concealed or buried metal bodies and a stable inductor usable in such detectors. 3,662,255, 5-9-72, Cl. 324-3.
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Burch, Darrel W.; and Jacomet, Arthur H., 3,638,774.
Early, James R.; Eyring, William M.; McGrath, Donald W.; and Takenaka, Toshio, 3,685,139.
Erwin, John R., 3,694,104.
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Garrett, Donald E. Diamond implosion apparatus. 3,659,972, 5-2-72, Cl. 425n1.
Garrett, Donald E., to Occidental Petroleum Corporation. In situ process for recovery of carbonaceous materials from subterranean deposits. 3,661,423, 5-9-72, Cl. 299-2.
Garrett, Donald E.; and Zaloudek, Theodore V., to General Electric Company. Disabling circuitry, for automatic frequency hue control. 3,674,919, 7-4-72, Cl. 178-5.40r.
Garrett, Donald E. Ion exchange process for aluminum values. 3,690,827, 9-12-72, Cl. 423-112.000.
Garrett, Donald E.; and Sass, Allan S., to Occidental Petroleum Corporation. Continuous process for the conversion of carbonaceous solids into pipeline gas. 3,698,882, 10-17-72, Cl. 48-210.000.
Garrett, Donald R. High pressure shaped charged devices. 3,653,792, 4-4-72, Cl. 425-1.
Garrett, Dwight A.; and Muehlbauer, Heinz A., to Garrett Enumclaw Co. Mobile logging vehicle and method of skidding logs. 3,669,280, 6-13-72, Cl. 212-7.000.
Garrett Enumclaw Co.: *See—*
Garrett, Dwight A.; and Muehlbauer, Heinz A., 3,669,280.
Garrett, Henry U. Well bore blocking means and method. 3,684,008, 8-15-72, Cl. 166-55.000.
Garrett, Howard R.: *See—*
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Garrett, John W.: *See—*
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Garrett, Leo Lawrence; deceased (by National Bank at Orlando, The; administrator); and Birdyshaw, Walter L. Ladder warning device. 3,696,372, 10-3-72, Cl. 340-272.000.
Garrett, Robert E.; and Dame, Leon D. Air handling lighting fixture. 3,644,727, 2-22-72, Cl. 240-47.
Garrett, Sheyrl W., to Combustion Engineering, Inc. Means for determining flow rate and volume of a flowing fluid mass. 3,643,507, 2-22-72, Cl. 73-194.
Garrett, Sheyrl W., to Combustion Engineering, Inc. Means of cancellation of the effect of random deviations in radioactive emission upon an analog D. C. voltage. 3,683,189, 8-8-72, Cl. 250-83.60r.
Garrett, Sheyrl W., to Combustion Engineering, Inc. Means for determining flow rate and volume of a flowing fluid mass. 3,688,573, 9-5-72, Cl. 73-194.00r.
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Garrett, William, to Flairescence Ltd. Heated hair roller. 3,693,635, 9-26-72, Cl. 132-33.00r.
Garrett, William D.; and Barger, William R., Jr., to United States of America, Navy. Chemical sea surface marker. 3,676,359, 7-11-72, Cl. 252-301.30r.
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Garrett, William R., to Smith International, Inc. Kelly foot valve. 3,698,411, 10-17-72, Cl. 137-71.000.
Garrigus, James P., to Chicago Bridge & Iron Company. Corrosion protection for well casing of offshore structure. 3,677,016, 7-18-72, Cl. 61-46.500.
Garrigus, Kenneth A.: *See—*
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Garrigus, Kenneth A., to GTE Sylvania Incorporated. Limiter circuit with enable function. 3,639,779, 2-1-72, Cl. 307-237.
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Garris, George J., to Du Pont de Nemours, E. I., and Company. Process of recovering hydrogen fluoride free of arsenic by distillation. 3,663,382, 5-16-72, Cl. 203-91.
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Garrison, Donald R., 20% to Guida, Vito. Protective wrapper for roll of sheet material and method of making same. 3,660,958, 5-9-72, Cl. 53-3.
Garrison, Dwight Wesley, to General Electric Company. Self stabilizing flotation module. 3,648,314, 3-14-72, Cl. 114-53.
Garrison, George E. Auxiliary tire track. 3,675,701, 7-11-72, Cl. 152-225.000.
Garrison, George H.; Horodysky, Andrew G.; and Philips, Howard E., to Mobil Oil Corporation. Preparation of di-alkylaromatic disulfides. 3,651,150, 3-21-72, Cl. 260-608.
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Garrison, Jedediah Lyman; and Georgiades, Andrew Nicholas, to Bell Telephone Laboratories, Incorporated. Band-elimination filter. 3,704,433, 11-28-72, Cl. 333-72.000.
Garrison, John H.: *See—*
Smyers, Frank C.; and Garrison, John H., 3,679,395.
Garrison, John W.; and Schlef, Charles L., to Ford Motor Company. Composition comprising metal salts and ochra. 3,650,789, 3-21-72, Cl. 106-287.
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Garrison, Robert A.; and Conapa, Leonard L., to Garrison Manufacturing Co., Inc. Cylinder for power steering system with releasable hydraulic stops. 3,695,378, 10-3-72, Cl. 180-79.20r.
Garrison, William H., to American Spin-A-Batch Company. Galvanizing apparatus. 3,699,918, 10-24-72, Cl. 118-61.000.
Garritsen, Johan W.; Kooijman, Sebastiaan E. M.; Gregoire, Johannes H. C. M. A.; and Verbrugge, Henny, to Stamicarbon N.V. Anionic polymerization of lactams. 3,639,359, 2-1-72, Cl. 260-78.
Garritsen, Johan W.; and Hofman, Johannes H. A., to Stamicarbon N.V. Preparation of lactams from cycloalkanes. 3,652,552, 3-28-72, Cl. 260-239.3.
Garritsen, Johan W.; and Gregoire, Johannes H. C. M. A., to Stamicarbon N.V. Purification of terephthalic acid. 3,657,330, 4-18-72, Cl. 260-525.
Garritsen, Johan W.; and Classens, Johannes E. L., to Stamicarbon N.V. Purification of laurolactam. 3,684,797, 8-15-72, Cl. 260-239.30a.
Garrood, John Robert; and Nixon, William Charles. Electron microscopy. 3,657,593, 4-18-72, Cl. 315-18.
Garrott, William L. Speed and fault indicator for a model vehicle. 3,652,937, 3-28-72, Cl. 324-168.
Garshelis, Ivan J., to Research Associates, Inc. Method of packaging a plurality of disposable aprons and package resulting therefrom. 3,685,643, 8-22-72, Cl. 206-57.000.
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Garth, Bruce Hollis, to Du Pont de Nemours, E. I., and Company. Perfluoropolyether esters of quinones. 3,696,128, 10-3-72, Cl. 260-376.000.
Garth, Emory C., to Texas Instruments, Incorporated. Digital data processing system having a signal distribution. 3,657,701, 4-18-72, Cl. 340-147.
Garth, Leonid G., to Eastman Kodak Company. Process for preparing high gloss photographic paper. 3,676,183, 7-11-72, Cl. 117-64.00r.
Gartlan, John A., to Pursol Chemical Corporation. Absorbent for purifying dry-cleaning solvents. 3,658,459, 4-25-72, Cl. 8-142.
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Gartman, William W.; Evans, James G.; and Allen, Harold A., to Texas Instruments, Incorporated. Thin film deposition system. 3,701,682, 10-31-72, Cl. 117-201.000.
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Gartner, Karl. Extrusion press for the manufacture of light metal profiles. 3,695,081, 10-3-72, Cl. 72-254.000.
Gartner, Klaus W., 1/2 to Phillips, Peter. Sequential signal producing means. 3,702,070, 11-7-72, Cl. 70-278.000.
Gartner, Klaus-Gunther: *See*—
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Gartner, Michael A. Fence post driver. 3,700,047, 10-24-72, Cl. 173-124.000.
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Gartner, Todd; and Van Husen, Hendrik W., to Automatic Electric Laboratories, Inc. Continuity and foreign potential detector. 3,691,309, 9-12-72, Cl. 179-18.0ab.
Gartner, Todd H., to GTE Automatic Electric Laboratories Incorporated. Current limiting circuit. 3,660,682, 5-2-72, Cl. 307-237.000.
Garton, Chester D. Prefabricated house or building. 3,657,849, 4-25-72, Cl. 52-90.
Gartside, Roger H., to Pannier Corporation, The. High-speed printing apparatus for wirelike articles. 3,635,153, 1-18-72, Cl. 101-37.
Garty, Kenneth Thomas: *See*—
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Garvey, Bruce J., to Kewanee Oil Company. Method of electrodeposition onto stainless steel. 3,669,851, 6-13-72, Cl. 204-25.000.
Garvey, Francis J.; and Winterbottom, Bruce, to Carrier Craft Corporation. Sanding hand tool. 3,699,729, 10-24-72, Cl. 51-391.000.
Garvey, Jerry W. Soil pipe assembly tool. 3,688,378, 9-5-72, Cl. 29-237.000.
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Garwood, Moody Ray. Self-cleaning bird bath. 3,696,786, 10-10-72, Cl. 119-1.000.
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Gary, Christian: *See*—
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Gary, Wilbur, to SCM Corporation. Isomerization of 2-hydroxy p-menthane 1-carboxylate and 2-hydroxy-8-p-menthene-1-carboxylate to the corresponding 1-hydroxy-2-carboxylate counterpart. 3,676,487, 7-11-72, Cl. 260-489.000.
Garza, Cesar M. Distributor for six cylinder internal combustion engine including two cam operated contact breaker assemblies. 3,702,384, 11-7-72, Cl. 200-19.00a.
Garzia, Aldo, to Instituto Chemioterapico Italiano S.p.A. Derivatives of aminoalkanoic acids. 3,692,827, 9-19-72, Cl. 260-519.000.
Garzia, Aldo, to Istituto Chemioterapico Italiano S.p.A. (3,4,5-Trimethoxy-benzamido)-alkanoic acids for prophylaxis and treatment of cardiac disorders. 3,697,563, 10-10-72, Cl. 260-404.000.
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Garzon, Ruben D., to I-T-E Imperial Corporation. Instrument for measurement of energy of an interrupting device. 3,706,033, 12-12-72, Cl. 324-140.00r.
Garzotto, Felice, to Rimar S.p.A. Machine for washing fabrics. 3,631,692, 1-4-72, Cl. 68-62.
Garzotto, Felice, to Rimar S.p.A. Apparatus for finishing textile materials and the like. 3,695,220, 10-3-72, Cl. 118-61.000.
Garzotto, Felice, to Rimar S.p.A. Machine for washing and treating with finishing agents yarns of natural, artificial and synthetic fibers wound on a reel. 3,698,211, 10-17-72, Cl. 68-19.200.
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Gasaway, Jack S. Hypodermic injection device. 3,688,765, 9-5-72, Cl. 128-173.00h.
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Bucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude, 3,646,063.
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Gasche, Urs; Lindlar, Herbert; Rutishauser, Max; and Steiner, Riedholz Kurt, to Hoffmann-La Roche Inc. Process for producing xylose. 3,700,501, 10-24-72, Cl. 127-43.000.
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Gash, Virgil W., to Monsanto Company. Esters of tetrahydroxy dineoalkyl ethers. 3,681,440, 8-1-72, Cl. 260-488.00j.
Gasior, Joseph; and Waechter, Charles J., to Midland Ross Corporation. Continuous-parison blow-molding machine. 3,632,261, 1-4-72, Cl. 18-14.
Gasior, Joseph; and Kovacs, Lloyd, to Midland-Ross Corporation. Continuous-parison blow-molding apparatus. 3,640,661, 2-8-72, Cl. 425-159.
Gasiorowski, Roman J., to AMF Incorporated. Fender flairing apparatus. 3,672,198, 6-27-72, Cl. 72-215.
Gasiunas, Donatas V., to Technicon Instruments Corporation. Automatic calibration apparatus. 3,681,577, 8-1-72, Cl. 235-151.300.
Gaskell, Edwin R. Phosphate esters. 3,692,884, 9-19-72, Cl. 260-944.000.
Gaskell, Philip Hedley; and Lowe, Derek, to Pilkington Brothers Limited. Detection of faults in transparent material using lasers. 3,652,863, 3-28-72, Cl. 250-219.
Gaskin, Timothy Allen; and Bell, Robert Joseph, to Scott, O. M., & Sons Company, The. Turf appearance improvement. 3,632,328, 1-4-72, Cl. 71-3.
Gaskins, Thomas. Pressure indicator. 3,680,523, 8-1-72, Cl. 116-34.00r.
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Holicky, Donald F.; Hahn, Kenneth G.; and Gasman, Robert C., 3,632,796.
Gasner, William L., to Mc Culloch Corporation. Chain stabilizing chain saw sprockets. 3,683,980, 8-15-72, Cl. 143-32.00r.
Gaspar, Bela. Method of producing colloid relief images. 3,698,902, 10-17-72, Cl. 96-35.000.
Gaspar, Noel J.: *See*—
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Gasparaitis, Bernardas, to Sunbeam Corporation. Radiant heater with means for reducing sag of the electrical heating element. 3,632,981, 1-4-72, Cl. 219-377.
Gasper, Kenneth A., to McDonnell Douglas Corporation. Means of measuring temperature and neutron flux. 3,638,018, 1-25-72, Cl. 250-83.1.
Gasper, Ralph L.; and Riordan, Donald E., to Bimba Manufacturing Company. Magnetic switch mounting means for a fluid motor unit. 3,639,868, 2-1-72, Cl. 335-205.
Gass, Hans; and Hintermann, Hans Erich, to Laboratoire Suisse de Recherches Horlogeres. Method for producing hard coatings on a surface. 3,642,522, 2-15-72, Cl. 117-106.

Gass, Harold D., Jr.: *See—*
Vesely, Kenneth D.; and Gass, Harold D., Jr., 3,647,911.
Gass, Sadie. Drapery hanger. 3,633,251, 1-11-72, Cl. 24-84.
Gass, Sadie. Drapery hanger for pinch pleat drapery. 3,641,631, 2-15-72, Cl. 24-84.
Gass, Sadie. Drapery measuring device. 3,645,000, 2-29-72, Cl. 33-137.
Gass, Sadie. Drapery measuring device. 3,645,003, 2-29-72, Cl. 33-192.
Gassaway, James E. Multinozzle spraying apparatus. 3,637,142, 1-25-72, Cl. 239-394.
Gasser, Francois W.; and Girard, Pierre L., to Manufacture des Montres Rolex S.A. One-hour incremental watch setting device. 3,673,790, 7-4-72, Cl. 58-63.000.
Gasser, Hermann; and Hotz, Hansruedi, to Luwa AG. Method and apparatus for treatment of an endless fibre strand or the like. 3,701,182, 10-31-72, Cl. 28-59.000.
Gasser, Rupert Josef, to Societe d'Assistance Technique pour Produits Nestle S.A. Meat flavoring composition. 3,645,753, 2-29-72, Cl. 99-140.
Gassino, Teresio, to Olivetti, Ing., C., & C., S.p.A. Key for the keyboards of electric-input office machines. 3,692,167, 9-19-72, Cl. 197-98.000.
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Gassmann, Hans Ulrich; and Mugnier, Michel, to Ciba-Geigy AG. Capillary viscometer. 3,699,804, 10-24-72, Cl. 73-55.000.
Gassner, Hans, to Kugelfischer Georg Schafer & Co. Method of machining a friction roller. 3,673,897, 7-4-72, Cl. 82-1.00c.
Gassner, Saul: *See—*
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Gasson, Edward James: *See—*
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Gast, Arthur F.; and Wright, James E., to Badger Company, Inc., The. Method for vaporizing liquids. 3,663,606, 5-16-72, Cl. 260-497.00a.
Gast, Gerald E., to Whirlpool Corporation. Band remover for cartons. 3,677,519, 7-18-72, Cl. 254-131.000.
Gast Manufacturing Corporation: *See—*
Ondraka, Joseph A., 3,658,350.
Gast, Richard A.; and Mitchell, Harry R., to General Motors Corporation. Exhaust emission control system. 3,653,212, 4-4-72, Cl. 60-293.
Gast, Stewart P. Vehicle. 3,650,239, 3-21-72, Cl. 115-39.
Gastin, Darrell L., to Goodyear Tire & Rubber Company, The. Valve assembly. 3,698,428, 10-17-72, Cl. 137-595.000.
Gastler, John H.: *See—*
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Gaston County Dyeing Machine Company: *See—*
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Gaston, Donald H.: *See—*
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Gaston-Breton, Hubert: *See—*
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Gastrock, William Henry, to American Cyanamid Company. Substituted nitroimidazoles and methods of preparing the same. 3,634,447, 1-11-72, Cl. 260-309.
Gatellier, Claude: *See—*
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Gatellier, Claude; and Glikmans, Georges, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for improving the food value of microorganisms obtained by culture on hyrdrocarbon substrates. 3,702,283, 11-7-72, Cl. 195-28.00r.
Gately, Joseph R., to Forbro Design Corporation. Under-voltage monitoring device having time delay means for regulated power supplies. 3,670,246, 6-13-72, Cl. 324-133.
Gately, Joseph R., to Forbro Design Corporation. Voltage limiting circuit for constant-current power supplies. 3,678,370, 7-18-72, Cl. 323-4.000.
Gates, Albert George Ronald, to Gestetner Limited. Sheet feeding devices. 3,645,527, 2-29-72, Cl. 271-42.
Gates, Albert George Ronald, to Gestetner Limited. Sheet sensing mechanism. 3,669,017, 6-13-72, Cl. 101-235.000.
Gates, Albert George Ronald, to Gestetner Limited. Liquid applying member. 3,669,071, 6-13-72, Cl. 118-264.000.
Gates, David S.: *See—*
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Gates, Eugene R. Lure dislodging and retrieving device. 3,643,366, 2-22-72, Cl. 43-17.2.
Gates, Harlan R.: *See—*
Castrucci, Paul P.; Gates, Harlan R.; Henle, Robert A.; Pricer, Wilbur David; Morton, Robert M.; Mason, John W.; and North, William D., 3,641,516.
Gates, Henry S., to Gibbs Manufacturing & Research Corporation. Electrolytic color indicating timer. 3,649,879, 3-14-72, Cl. 317-230.
Gates, John W.; and Musliner, Walter J., to Eastman Kodak Company. 1-Phenyl-5-aryloxytetrazoles. 3,658,835, 4-25-72, Cl. 260-308.
Gates, John W., Jr.: *See—*
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Gates, John W., Jr.; Wise, Albert W.; Beavers, Dorothy J.; and Miller, Paul E., to Eastman Kodak Company. Derivatives of thiourazoles. 3,641,046, 2-8-72, Cl. 260-308.
Gates, John W., Jr.; and Beavers, Dorothy J., to Eastman Kodak Company. Alkoxy mercaptophenols as photographic addenda for photographic elements. 3,650,760, 3-21-72, Cl. 96-109.
Gates, Lauren W.; and Hartwig, Michael J., to University of California, The Regents of the. Separator for tomato harvester and the like. 3,666,017, 5-30-72, Cl. 171-27.
Gates Learjet Corporation: *See—*
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Gates, Louis E., Jr.: *See—*
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Gates, Louis E., Jr.; and Lent, William E., to Hughes Aircraft Company. Method of providing improved lossy dielectric structure for dissipating electrical microwave energy. 3,634,566, 1-11-72, Cl. 264-61.
Gates, Louis E., Jr., to Hughes Aircraft Company. Flexible protective armour material and method of making same. 3,649,426, 3-14-72, Cl. 161-43.
Gates, Louis E., Jr.; and Lent, William E., to Hughes Aircraft Company. Lossy dielectric structure for dissipating electrical microwave energy. 3,671,275, 6-20-72, Cl. 106-44.000.
Gates, Percival T., Jr.; and Libbey, Albert H., to EG & G, Inc. Facsimile scan line response equalization system. 3,697,683, 10-10-72, Cl. 178-7.100.
Gates, Peter Stuart; Gillon, John; and Saggers, David Thomas, to Fisons Limited. 2-Organyloxy-2,3-dihydro-5-benzofuranyl esters of alkyl sulfonic acids. 3,689,507, 9-5-72, Cl. 260-346.20r.
Gates Radio Company: *See—*
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Gates, Robert B. Harrow tooth attachment. 3,631,929, 1-4-72, Cl. 172-643.
Gates, Robert B. Harrow attachment and mud cleaner for grain drills. 3,682,252, 8-8-72, Cl. 172-198.000.
Gates, Robert H., to Martin-Marietta Corporation. Pipe groove formation. 3,683,061, 8-8-72, Cl. 264-317.000.
Gates Rubber Company, The: *See—*
Bitzer, Richard R.; and Reichard, William H., 3,694,413.
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Gates, Wilbur C., to General Electric Company. Molten metal dispensing equipment. 3,663,730, 5-16-72, Cl. 13-33.
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Gathman, Albert; and Gleim, George W., to Esso Research and Engineering Company. Lubricant for textile machinery. 3,676,342, 7-11-72, Cl. 252-18.000.
Gathman, Stuart G., to United States of America, Navy. DC high-voltage follower electrometer. 3,644,828, 2-22-72, Cl. 324-123.
Gati, Louis, to Pollution Techtronics, Inc. Waste and trash crushing and compacting apparatus. 3,651,755, 3-28-72, Cl. 100-96.
Gatland, Eric Charles: *See—*
Stringer, Philip Roland; and Gatland, Eric Charles, 3,644,931.
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Gatos, Harry C.: *See—*
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Gatsis, John G., to Universal Oil Products Company. Regeneration of unsupported vanadium sulfide catalyst. 3,635,838, 1-18-72, Cl. 252-415.

Gatsis, John G., to Universal Oil Products Company. Regeneration of unsupported vanadium sulfide catalyst. 3,645,912, 2-29-72, Cl. 252-411.
Gatsis, John G., to Universal Oil Products Company. Coal liquefaction process using ash as a catalyst. 3,671,418, 6-20-72, Cl. 208-10.000.
Gatsis, John G., to Universal Oil Products Company. Solvent extraction of coal by a heavy oil. 3,705,092, 12-5-72, Cl. 208-8.000.
Gatsis, John G., to Universal Oil Products Company. Hydrocracking process using a coal-derived ash. 3,707,461, 12-26-72, Cl. 208-111.000.
Gatta, Giorgio; and Rettore, Roberto, to Montecatini Edison S.p.A. Process for the halogenation of vinyl polymers. 3,635,929, 1-18-72, Cl. 260-92.8.
Gattesco, Giovanni, to Tesa S.A. Dial-type measuring instruments. 3,661,027, 5-9-72, Cl. 74-411.
Gatti, Alvaro: *See—*
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Gatti, Anthony R., to Shell Oil Company. Sulfide precipitated catalysts. 3,686,137, 8-22-72, Cl. 252-437.000.
Gatti, Arno: *See—*
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Gatti, Fernado: *See—*
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Gatti, Joseph. Football boots. 3,703,775, 11-28-72, Cl. 36-2.5ag.
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Gattiker, David Cyril George: *See—*
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Gatts, James D. Method and apparatus for dynamic health testing evaluation and treatment. 3,675,640, 7-11-72, Cl. 128-2.05r.
Gattus, Jean; and Mallet, Maurice, to Rhone-Poulenc S.A. Trimellamide-imides solutions. 3,671,481, 6-20-72, Cl. 260-30.20r.
Gatwood, Robert K., to International Telephone and Telegraph Corporation. Short duration high current pulse generator. 3,665,222, 5-23-72, Cl. 307-283.
Gatys, Gerhard: *See—*
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Gatzi, Karl, to Ciba-Geigy Corporation. 2-Amino-azacyclotridecenes. 3,634,401, 1-11-72, Cl. 260-239.
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Gauchet, Yves M., to Societe Anonyme Poclain. Lockable suspension for vehicles. 3,643,970, 2-22-72, Cl. 280-124.
Gauchet, Yves M., to Societe Anonyme Poclain. Earth-working machines. 3,664,528, 5-23-72, Cl. 214-138.00r.
Gauchet, Yves M., to Societe Anonyme Poclain. Public works machines. 3,669,286, 6-13-72, Cl. 214-138.00r.
Gauck, Herbert M. Gas vapor device. 3,696,799, 10-10-72, Cl. 123-136.000.
Gaudard, Yves, to Societe Rhodiaceta. Process for stabilizing soils. 3,670,506, 6-20-72, Cl. 61-35.000.
Gaudfrin, Guy. Filtering installation. 3,682,306, 8-8-72, Cl. 210-96.000.
Gaudiano, Anthony V.: *See—*
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Gaudin, Jean, to Societe de Constructions Mecaniques de Creil. Braking device for use in winding multiple strips upon a common mandrel. 3,666,195, 5-30-72, Cl. 242-75.2.
Gaudin, Jean Joseph, to LABAZ. Balance for blood bag. 3,698,494, 10-17-72, Cl. 177-118.000.
Gaudreau, Laurent R.; and McDowell, Floyd E., to McCord Corporation, mesne. Apparatus for molding and curing foamed articles. 3,680,629, 8-1-72, Cl. 165-26.000.
Gaudry, Edouard: *See—*
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Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James, to Consolidated Foods Corporation, mesne. Articulated handle and shampoo tank for a floor care machine. 3,673,628, 7-4-72, Cl. 15-143.00a.
Gaudry, Paul Emile. Electric motor brush spring. 3,666,258, 5-30-72, Cl. 267-179.000.
Gaudry, Paul Emile. Rotary brush adjustment device for vacuum cleaner attachment. 3,671,996, 6-27-72, Cl. 15-368.000.
Gaug, Harold E. Machine for inserting wire screening. 3,661,188, 5-9-72, Cl. 140-109.
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Gaugh, Robert R.: *See—*
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Gaugh, Wilbur S., to Eastman Kodak Company. Photographic silver halide emulsions containing a cyanine dye containing at least one 1-cyanoalkyl-2-erylindole nucleus. 3,687,675, 8-29-72, Cl. 96-101.000.
Gaughan, Edmund J., to Stauffer Chemical Company. Insecticidal 5-phosphorylacetamido-and 5-phosphonylacetamido substituted 1,2,4 thiadiazoles. 3,632,597, 1-4-72, Cl. 260-306.80.
Gaughan, Edmund J., to Stauffer Chemical Company. Certain thiolophosphonamides as insecticides and acaricides. 3,636,206, 1-18-72, Cl. 424-219.
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Gaul, Robert G., to Paragon Wire & Cable Corporation. Lubricating system for braiding machines. 3,640,176, 2-8-72, Cl. 87-33.
Gauldie, Kenneth. Centrifugal jaw crushers. 3,688,994, 9-5-72, Cl. 241-205.000.
Gaulier, Jean-Claude, to Compteurs-Schlumberger Montroage. Threshold responsive scale. 3,700,055, 10-24-72, Cl. 177-204.000.
Gault, Kenneth W.: *See—*
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Gault, Robert H.; and Joy, Robert F., to Bethlehem Steel Corporation. Polished rod liner extension. 3,662,829, 5-16-72, Cl. 166-84.
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Gaumer, Lee S., Jr.; and Newton, Charles L. Process for liquefying natural gas employing a multi-component refrigerant for obtaining low temperature cooling. 3,645,106, 2-29-72, Cl. 62-9.
Gaumont, Richard J. Vehicle towing device. 3,690,482, 9-12-72, Cl. 214-86.00a.
Gaunt, Dennis: *See—*
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Gaunt, Jack R. Fishing lure flasher. 3,656,253, 4-18-72, Cl. 43-42.33.
Gaunt, Thomas Norman; and Dodsworth, Edward, to Plastona (John Waddington) Limited. Apparatus for sealing thin walled containers. 3,645,825, 2-29-72, Cl. 156-361.
Gauri, Kailash Kumar, to Robugen G.m.b.H. 5-Benzyl-(2'-desoxyribosyl) uracil compounds, compositions containing same, and process of making and using same. 3,642,771, 2-15-72, Cl. 260-211.5.
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Gauthier, Charles; and Vincent, Jean-Marie, to CTA-Compagnie Industrielle de Textiles Artificiels et Synthetiques. Man-made filament spinneret and extruder head. 3,667,886, 6-6-72, Cl. 425-192.
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Gauthier, Oscar. Device for medical use. 3,705,580, 12-12-72, Cl. 128-79.000.
Gauthier, William D.; and Lierke, Ernst G., to Champion Spark Plug Company. Atomizer. 3,647,143, 3-7-72, Cl. 239-342.
Gauthron, Maurice, to Commissariat a l'Energie Atomique. Vented nuclear fuel element. 3,697,377, 10-10-72, Cl. 171-79.000.

Gautier, Jean A.; Miocque, Marcel Y.; Moskowitz, Henri; Blanc-Guenee, Janine L.; Raynaud, Guy M.; and Dorme, Nicole A. M., to Delalande S.A. 9-Aminoalkyl-9-alkyl- or aryl-sulphonyl-fluorenes. 3,655,762, 4-11-72, Cl. 260-570.8.

Gautier, Jean Albert; Miocque, Marcel; Fauran, Claude; and Le Cloarec, Albert Yves, to Delalande S.A. Certain N-substituted aromatic amidines. 3,632,593, 1-4-72, Cl. 260-296.

Gautier, Jean Albert; Miocque, Marcel; Fauran, Claude; and Le Cloarec, Albert Yves, to Delalande S.A. N-substituted di-amidines derived from aromatic diamines and a process for their preparation. 3,632,594, 1-4-72, Cl. 260-296.

Gautier, Pieter A.; and Verbrugge, Herman, to Shell Oil Company. Controlling molecular weight in lactone polymerization. 3,642,716, 2-15-72, Cl. 260-78.3.

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Gautraud, Michael G.; and Sanders, James W., to Brunswick Corporation. Golf game. 3,655,202, 4-11-72, Cl. 273-176.

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Gautschi, Fritz; Willhalm, Bruno; and Buchi, George H. Oxa-thiabicyclo[3.3.0]octadienes. 3,652,593, 3-28-72, Cl. 260-332.3.

Gauvin, Robert D., to Metro Machine & Engineering Corporation. Apparatus for winding storing and distributing punched paper tape. 3,656,700, 4-18-72, Cl. 242-967.1.

Gauzza, Harry J.; and Horanoff, Eugene V., to United States of America, Navy. Hinged stability and control fin assembly. 3,695,556, 10-3-72, Cl. 244-3.290.

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Gavallet, Andre F. Adjustable toilet cupboard with lighting equipment. 3,643,080, 2-15-72, Cl. 240-4.1.

Gavasso, Richard J.: *See—*
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Gavazzi, Leo. Method of making dental prosthesis. 3,659,344, 5-2-72, Cl. 32-2.

Gaven, Thomas J.; and Whitlock, Bruce N., to McGraw-Edison Company. Cassette and dictating machine for belt type records. 3,690,678, 9-12-72, Cl. 274-4.00j.

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Geier, Walter, to Geier, Adam, Ing., KG. Inflatable suspenders. 3,646,625, 3-7-72, Cl. 9-335.
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Geiger, Earl E., to Larson Industries, Inc. Plastic boat construction. 3,634,898, 1-18-72, Cl. 9-6.
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Geiger, John H. Structural unit and assembly. 3,654,375, 4-4-72, Cl. 35-72.
Geiger, Joseph A. Heat and air action apparatus for electronic circuitry repairs. 3,690,539, 9-12-72, Cl. 228-20.000.
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Geiger, Robert W.; Teten, Alfred M.; and Paterson, William G., to Minnesota Mining and Manufacturing Company. Aquatic herbicides. 3,634,061, 1-11-72, Cl. 71-66.
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Geil, Ronald J.: *See—*
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Geil, Walter: *See—*
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Geil, Walter, to Barmer Maschinenfabrik Aktiengesellschaft. Gas ejecting device for cooling extruded tubing. 3,642,394, 2-15-72, Cl. 425-72.

Geil, Walter Remscheid-Lennep: *See—*
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Geipel, Hans; Schulz, Alfred; and Huber, Helmut, to Schloemann Aktiengesellschaft and Huttenwerk Oberhausen AG. Device for collecting turns of rod or wire. 3,646,655, 3-7-72, Cl. 29-200.

Geipel, Lothar Ernst, to Stauffer-Wacker Silicone Corporation. Molecular weight control and polysiloxanes. 3,661,962, 5-9-72, Cl. 260-448.2.

Geis, David G., to Teletype Corporation. Friction testing apparatus and methods. 3,640,118, 2-8-72, Cl. 73-9.

Geis, James D.; Troll, John H.; Gluz, Harry; and Baker, Cole H., to Iris Corporation. Automatic thermometer calibration system. 3,678,729, 7-25-72, Cl. 73-1.00f.

Geisel, Robert C., to Eyelet Specialty Company. Cartridge-type lipstick container or the like. 3,653,776, 4-4-72, Cl. 401-86.

Geisenberger, Fritz: *See—*
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Geiser, Edward M., to Universal Oil Products Company. Sheet material. 3,640,629, 2-8-72, Cl. 401-132.

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Geisler, Heinz, to Merit-Werk Merten & Co. KG. Lock construction. 3,648,493, 3-14-72, Cl. 70-375.

Geisler, Henry O.: *See—*
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Geisler, Raymond E.; Hull, Leroy E.; and Kirschbaum, Michael E. Sound-type detection system. 3,647,974, 3-7-72, Cl. 179-5.

Geisler, Robert L. Non-destructive testing device for the detection of flaws in solid rocket motors. 3,662,592, 5-16-72, Cl. 73-104.

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Geisler, Roland: *See—*
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Geisow, Bernard H., to Daniel Industries, Inc. Gas turbine meter. 3,695,106, 10-3-72, Cl. 73-231.00r.

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Geitz, Norman C. Matrix coating apparatus. 3,669,068, 6-13-72, Cl. 118-64.000.

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Gelb, Leonard L., to Hercules Incorporated. Filament structure and process comprising coated boron filaments. 3,681,185, 8-1-72, Cl. 161-143.000.

Gelbard, Robert B.; Dodge, Gerald F., III; and True, Howard D. F., Jr., to General Electric Company. Side-by side refrigerator including low cost evaporator means. 3,678,698, 7-25-72, Cl. 62-276.000.

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Gelber, Robert M.: *See—*
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Gelbman, Nathan L. Apparatus for making concrete products. 3,659,986, 5-2-72, Cl. 425-88.

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Gelder, Franz. Arrangement for registering the presence and the availability of personnel. 3,686,482, 8-22-72, Cl. 235-92.0ea.

Gelder, Franz. Arrangement for planning and monitoring a production process. 3,703,630, 11-21-72, Cl. 235-151.300.

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Gelenius, Robert B., to General Motors Corporation. Wide angle two-coil electrical gauge. 3,636,447, 1-18-72, Cl. 324-140.

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Gelfand, Leonard, to Erico Products, Inc. Reinforcing bar coupling. 3,694,012, 9-26-72, Cl. 287-110.000.

Gelfand, Samuel, to Hooker Chemical Corporation. Halogen containing ketones, acid halides and processes. 3,655,765, 4-11-72, Cl. 260-586.

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Gelfgren, Erik Hannes Kurt, to AB Hagglund & Soner. Transport vehicle. 3,692,197, 9-19-72, Cl. 214-390.000.

Gelfman, Ephrem J. Method and apparatus for cutting glass bottles and the like. 3,699,829, 10-24-72, Cl. 82-92.000.

Gelin, Robert, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Hydraulic gear pumps and motors. 3,644,072, 2-22-72, Cl. 418-206.

Gelin, Robert J., to Owens-Corning Fiberglas Corporation. Conductive mold comprising a non-conducting supporting wall and a conductive gel coat applied thereto. 3,644,132, 2-22-72, Cl. 117-5.1.

Gelin, Robert J., to Owens-Corning Fiberglas Corporation. Method and apparatus for applying coating material. 3,659,790, 5-2-72, Cl. 239-336.

Gelin, Robert J., to Owens-Corning Fiberglas Corporation. Molding press. 3,667,891, 6-6-72, Cl. 425-408.

Gelin, Robert J., to Owens-Corning Fiberglas Corporation. Method for forming a molded article. 3,694,541, 9-26-72, Cl. 264-294.000.

Gelineau, Leodore H., Sr.; and Moore, Gordon A. Mail box with remote signal transmitter. 3,707,260, 12-26-72, Cl. 232-36.000.

Gell, Dennis; and Spurling, Arthur William, to Bentley Engineering Company Limited, The. Means and method of controlling the speed of a circular knitting machine. 3,653,231, 4-4-72, Cl. 66-56.

Gell, Philip Anthony Maunsell; and Waterwort, Thomas Hugill, to Element Limited. Furnaces for heating glass. 3,683,093, 8-8-72, Cl. 13-6.000.

Gellender, Carl. Multiple section pneumatic tire. 3,653,718, 4-4-72, Cl. 301-38.

Geller, Harold I.: *See—*
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Geller, Leo; Deguillaume, Robert; and Desaulles, Pierre Antoine, to Ciba Corporation. Buccal- and nasal mucous-administerable preparations having an adrenocorticotropic activity. 3,632,743, 1-4-72, Cl. 424-45.

Geller, Leo, to Ciba Corporation. Complexes of A. C. T. H. peptides and polyphosphoric acids. 3,639,383, 2-1-72, Cl. 260-112.5.

Geller, Myer; Altman, Daniel E.; De Temple, Thomas A.; and Taylor, Henry F., to United States of America, Navy. Three dimensional storage system using F-centers. 3,654,626, 4-4-72, Cl. 340-173.

Geller, Robert Z.: *See—*
Tripp, Robert W.; and Geller, Robert Z., 3,673,585.

Gelleri, Andras: *See—*
Magdanyi, Laszlo; Gelleri, Andras; Pallos, Laszlo; Erdelyi, Lujza, nee Petocz; and Gorog, Peter, 3,705,175.

Gellert, Dale A., to Procter & Gamble Company, The. Pressure sensitive tape fastener for disposable diapers. 3,646,937, 3-7-72, Cl. 128-287.

Geloso, Giovanni; deceased (by Domini, Gianfranca; sole heir). Lighting unit incorporating loudspeakers. 3,679,845, 7-25-72, Cl. 179-146.00r.

Gels, Clarence B.: *See—*
Hayhurst, Lewis J.; Avery, William L.; and Gels, Clarence B., 3,649,303.

Gelsenberg Beazin Aktiengesellschaft: *See—*
Richter, Guenther, 3,693,707.

Gelston, Brenda B. Disposable athletic supporter. 3,664,336, 5-23-72, Cl. 128-158.

Geltman, Gerald L.: *See—*
Kastenbein, Ernest L.; and Geltman, Gerald L., 3,700,597.

Geltzer, Bernard. Molding means and display casing for replicas of frontal teeth before and after orthodontic treatment. 3,686,760, 8-29-72, Cl. 32-17.000.

Gelzer, John R. Conveyor system for moving fixtures through a selected program. 3,645,375, 2-29-72, Cl. 198-19.

Gelzer, Justus Melchior: *See—*
Konopka, Edward Alexander; and Gelzer, Justus Melchior, 3,644,616.

Gelzheiser, Francis L.: *See—*
De Angelo, Gerald J.; Gelzheiser, Francis L.; and Coley, Kenneth R., 3,683,414.

Gem Electric Mfg. Co., Inc.: *See—*
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Gem Oil Tool Company: *See—*
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Gem Products, Inc.: *See—*
Johnsen, Eric C.; Polk, William M.; and Brockman, Robert A., 3,681,722.
Johnsen, Eric C., 3,701,068.

Gemander, Georg: *See—*
Zimmermann, Kurt; and Gemander, Georg, 3,678,913.

Gemander, Georg, to Bosch, Robert, G.m.b.H. Ignition arrangements for internal combustion engines. 3,648,675, 3-14-72, Cl. 123-149.

Gemco Electric Company: *See—*
Cork, Gordon H.; Tenniswood, David M.; and Kaptur, Robert E., 3,677,099.

Gemco, Inc.: *See—*
Golden, John R., 3,684,213.

Gemeinhardt, Hermann, to Glanzstoff AG. Apparatus for production of mouline yarns. 3,651,630, 3-28-72, Cl. 57-34.

Gemert, Lee Van: *See—*
Hood, Frederick E.; Davis, Harry T.; and Gemert, Lee Van, 3,658,025.

Gemini Investment Etablissement: *See—*
Axisa, Walter, 3,706,117.

Gemini Paper Fibers Corporation: *See—*
Loscialo, Alfred, 3,636,864.

Gemmill, Robert M., Jr.: *See—*
Schick, John W.; and Gemmill, Robert M., Jr., 3,655,561.

Gemmill, Robert M., Jr.; and Schick, John W., to Mobil Oil Corporation. Lubricant compositions comprising substituted indans. 3,640,870, 2-8-72, Cl. 252-59.

Gempel, Robert Francis: *See—*
Chessin, Hyman; and Gempel, Robert Francis, 3,657,079.

Gemperle, Edward Carroll: *See—*
Aubert, Harry Julius; and Gemperle, Edward Carroll, 3,679,608.

Genakis, Joseph M. Step cam disc cylinder lock. 3,693,384, 9-26-72, Cl. 70-364.00a.

Genakis, Joseph Michael. Lock with safety bolt. 3,666,306, 5-30-72, Cl. 292-169.17.

Genbauffe, Francis S.: *See—*
Branson, Charles D.; and Genbauffe, Francis S., 3,703,988.

Genbauffe, Francis S., to Robertshaw Controls Company. Flame sensing bulb construction. 3,642,200, 2-15-72, Cl. 236-15.

Genbauffe, Francis S., to Robertshaw Controls Company. Control system for a double burner oven or the like and improved parts and method for the same or the like. 3,692,239, 9-19-72, Cl. 236-15.00a.

Genbauffe, Francis Simon, to Robertshaw Controls Company. Burner construction and method of making the same or the like. 3,647,146, 3-7-72, Cl. 239-559.

Genca, Samuel R.: *See—*
Golden, Henry; and Genca, Samuel R., 3,707,242.
Tolliver, Peter M., 3,664,558.

Gencarelli, Richard A.: *See—*
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Genchi, Hiroshi: *See—*
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Watanabe, Sadakazu; Mori, Kenichi; Yoneyama, Tsuneo; and Genchi, Hiroshi, 3,688,266.

Gende, Joseph J., to Whittaker Corporation. Linear rate spring mechanism. 3,689,055, 9-5-72, Cl. 267-150.000.

Genden, Seymour A., to United States of America, Army. Solid fuel composition. 3,645,810, 2-29-72, Cl. 149-43.

Gendle, Eric: *See—*
Head, Gordon Edwin; Jones, Kenneth Morgan; and Gendle, Eric, 3,647,362.

Gendler, Irvin F., to Murphey, Daniel F. Horseshoe game device with recessed stake areas. 3,640,535, 2-8-72, Cl. 273-126.

Gendraon, Raymond V.; and Baldi, Albert F., to Nashua Corporation. Computer print out paper package. 3,631,972, 1-4-72, Cl. 206-57.

Gendreau, Jacques C., to Fogautolube S.A. Load lifting mechanism. 3,687,234, 8-29-72, Cl. 187-25.000.

Gendron, Everett W. Illuminated belt. 3,641,333, 2-8-72, Cl. 240-6.4.

Gendron, George J.: *See—*
Godley, Augustus P.; Fuller, Francis M.; Houk, Charles R.; Holland, Henry A. Nelson; and Gendron, George J., 3,641,775.

Gendron, Lester. Mobile washing machine. 3,706,210, 12-19-72, Cl. 68-152.000.

Gendron, Roger J.; and Sims, Dewitt, to Baker Perkins Inc. Gravity type pan unstacker. 3,658,194, 4-25-72, Cl. 214-8.5.

Gene, Bernard Arthur: *See—*
Marten, John Anthony; and Gene, Bernard Arthur, 3,702,075.

Genequand, Pierre, to Battelle Memorial Institute. Vacuum interrupter or switch for electric power networks. 3,705,144, 12-572, Cl. 200-144.00b.

General Alarm Corporation: *See*—
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Levin, Paul; and Adamski, Maximilian, 3,699,881.
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Hartigan, James J.; and Clementi, Robert J., 3,692,525.
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General Automotive Specialty Company, Inc.: *See*—
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General Aviation Electronics, Inc.: *See*—
Boelter, Donald A., 3,676,767.
General Battery and Ceramic Corporation: *See*—
Channing, Harry M., 3,638,108.
General Binding Corporation: *See*—
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General Cable Corporation: *See*—
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George, Billy, to Textron, Inc. Method of forming trim member. 3,670,399, 6-20-72, Cl. 29-509.000.
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George, Donald K., to Riegel Textile Corporation. Disposable combination flushable diaper and protective cover. 3,636,952, 1-25-72, Cl. 128-287.
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Gerlach, Howard G., Jr.; and Looney, Catharine E., to Du Pont de Nemours, E. I., and Company. Dual response photosensitive composition containing acyl ester of triethanolamine. 3,658,543, 4-25-72, Cl. 96-90.

Gerlach, John R.; and Morrensen, Clarence B., to Emhart Corporation. Latch construction including assembly, anti-violation and dead bolt features. 3,699,788, 10-24-72, Cl. 70-134.000.

Gerlach, John R., to Emhart Corporation. Thumb lever actuated latch operating device. 3,704,036, 11-28-72, Cl. 292-167.000.

Gerlach, Klaus: *See—*
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Gerlach, Klaus; Grimm, Wolfgang; and Linhart, Helmut, to Glanzstoff AG. Production of fiber-forming polyamides of improved dyeability. 3,644,298, 2-22-72, Cl. 260-78.

Gerlach, Le Roy E.; Johnson, Gordon P.; and Tandeski, David A., to Sperry Rand Corporation. Removable card-handling cartridge. 3,669,262, 6-13-72, Cl. 209-80.500.

Gerlach, Lester O.: *See—*
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Gerlach, Richard K.: *See—*
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Gerlach, Richard K.; and Miller, Meryl E., to Datanetics Corporation. Sealed electrical package. 3,663,779, 5-16-72, Cl. 200-168.

Gerlat, Matthew E. Safety outlet. 3,663,924, 5-16-72, Cl. 339-28.

Gerli, Eugenio: *See—*
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Gerlicher, Robert A., to Copolymer Rubber & Chemical Corporation. Combustion engine oil with additive to prevent sludge formation and deterioration. 3,650,952, 3-21-72, Cl. 252-33.6.

Gerling, Ernst Joachim. Pocketknife. 3,699,654, 10-24-72, Cl. 30-155.000.

Germain, Andrew G.; and Dressel, William G., to Amsted Industries, Incorporated. Stopper renewal device. 3,675,518, 7-11-72, Cl. 82-1.00b.

Germain, Andrew G.; and Dressel, William G., to Amsted Industries Incorporated. Coated graphite mold. 3,684,004, 8-15-72, Cl. 164-364.000.

Germain, Leo M. Apparatus for adhesive lamination of flexible webs. 3,687,791, 8-29-72, Cl. 156-549.000.

Germain, Leo M., to Gulf Oil Canada Limited. Adhesively laminated flexible webs. 3,701,710, 10-31-72, Cl. 161-148.000.

Germain, Lloyd M., to Data Instruments Company. Data transmission system. 3,668,643, 6-6-72, Cl. 340-171.

German, Lev Solomonovich: *See—*
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German, Paul. Spraying device of aerosol contained in a removable tank. 3,662,958, 5-16-72, Cl. 239-274.

German, Samuil Iosifovich: *See—*
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German, Victor Frederick, to Robins, A. H., Company, Incorporated. 5-Azaspiro[2,4]heptanes. 3,654,305, 4-4-72, Cl. 260-326.5.

German, Victor Frederick, to Robins, A. H., Company, Incorporated. 5-Azaspiro[2,4]heptanes-4,6-diones. 3,654,306, 4-4-72, Cl. 260-326.5.

German, William H. Ship construction. 3,635,186, 1-18-72, Cl. 114-57.

German, William H. Ship construction. 3,665,886, 5-30-72, Cl. 114-73.000.

Germanas, Dalia: *See—*
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Germann, Albert G., to G & H Mechanical Laboratory Inc. Method and apparatus for making a ball bearing. 3,633,982, 1-11-72, Cl. 308-191.

Germann, Albert G., to G & H Mechanical Laboratory, Inc. Method for making a ball bearing. 3,667,097, 6-6-72, Cl. 29-148.40a.

Germann, John E.: *See—*
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Germann, Richard Paul: *See—*
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Germann, Werner, to Amerasia Enterprises, Incorporated. Cartridge for a writing implement. 3,659,951, 5-2-72, Cl. 401-190.

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Germanton, Charles Elias. Pushbutton combination lock. 3,704,607, 12-5-72, Cl. 70-220.000.

Germer, John H., to General Electric Company. Steam-cooled reactor. 3,634,189, 1-11-72, Cl. 176-54.

Germer, John H., to United States of America, Atomic Energy Commission. Device to prevent sodium freezing around shaft penetration. 3,700,551, 10-24-72, Cl. 176-40.000.

Germer, Walter F., Jr.; Stringer, Carl W.; and Harrison, William H., to Germer-Stringer Corporation. Secondary recovery and well stimulation, solutions, and methods of use. 3,700,031, 10-24-72, Cl. 166-270.000.

Germer-Stringer Corporation: *See—*
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Germino, Felix J.; and Caracci, Joseph R., Jr., to CPC International Inc. Process of preparing pudding containing starch having a low bound-fat content. 3,671,269, 6-20-72, Cl. 99-139.000.

Germino, Felix Joseph; and Caracci, Joseph Ronald, to CPC International Inc. Preparation of starch derivatives. 3,637,656, 1-25-72, Cl. 260-233.3.

Germino, Felix Joseph; Stejskal, Joseph Frank; Christensen, Edwin Hans; and Kite, Francis Ervin, to CPC International Inc. Textile fiber sizing agents. 3,661,895, 5-9-72, Cl. 260-233.5.

Germond, Jean-Claude; Guilbaud, Jean-Pierre; and Vertut, Jean, to Commissariat a l'Energie Atomique. Articulated master-slave manipulator. 3,664,517, 5-23-72, Cl. 214-1.0cm.

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Germscheid, Hans Gunther: *See—*
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Germscheid, Hans Gunther; and Geisler, Roland, to Henkel & Cie G.m.b.H. Process for the treatment of anodic oxidized aluminum surfaces. 3,657,077, 4-18-72, Cl. 204-35.

Germuska, Richard W., to Addressograph-Multigraph Corporation. Optical system having lens and two movable mirrors. 3,689,133, 9-5-72, Cl. 350-202.000.

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Gerola, Luciano, to Construzioni Generali Farsura-Cogefar S.p.A. Connecting horizontal panels and vertical panels in prefabricated buildings. 3,645,056, 2-29-72, Cl. 52-259.

Geronime, Robert L., to Rosemount Inc. Heated roll temperature measurement compensator assembly. 3,697,726, 10-10-72, Cl. 219-469.000.

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Gerould, David S., to Weld-Motion, Inc. Wire feeder. 3,675,837, 7-11-72, Cl. 226-187.000.

Gerow, Clare William, to Du Pont de Nemours, E. I., and Company. Laminar structures of polyimides. 3,642,569, 2-15-72, Cl. 161-189.

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Gerring, Paul K., to Fanta Sea Swim Center, Inc. Swimming pool construction. 3,686,694, 8-29-72, Cl. 4-172.190.

Gerritsen, Hans G.; Hansma, Hendrik; and Jaspers, Hans, to Koninklijke Industrieele Maatschappij Noury & Van der Lande N.V. Bis [0-(carbo-2-ethylhexoxy)-benzoyl]peroxide as polyester curing agent. 3,636,137, 1-18-72, Cl. 260-861.

Gerritsen, Hans G.; and Schroeder, Arnold, to Koninklijke Industrieele Maatschappij Noury & Van Der Lande N.V. Peroxidic compositions from diacetone alcohol and their use as initiators for polymerization of unsaturated polyester resins. 3,652,717, 3-28-72,Cl. 260-861.

Gerritsen, Hendrik J.; and Hannan, William J., to RCA Corporation. Redundant, speckle-free hologram recording apparatus. 3,650,595, 3-21-72, Cl. 350-3.5.

Gerry, Martin E. Distortionless magnetic components. 3,651,282, 3-21-72, Cl. 179-100.2.

Gerry, Paul W., to Dresser Industries, Inc. Electrical generator having non-salient poles for metering shaft rotation. 3,636,392, 1-18-72, Cl. 310-67.

Gersbach, John E., to International Business Machines Corporation. Sense amplifier latch for monolithic memories. 3,676,703, 7-11-72, Cl. 307-235.000.

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Gersch, Richard C.; and Reynolds, Roland Bruce. Adjustable boring quill assembly. 3,640,633, 2-8-72, Cl. 408-12.

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Gershberg, David N.; and Lee, Alex Y., to E-System, Inc., mesne. Motion detection system with split-ring monostatic doppler detection. 3,703,722, 11-21-72, Cl. 343-5.0pd.

Gersmann, Hans A.; Oosterhof, Hendricus A.; and Strang, Aart, to Shell Oil Company. Aliphatic esters of 3,5-di-alkyl salicylic acids useful as UV stabilizers for thermoplastics. 3,663,596, 5-16-72, Cl. 260-473.00s.

Gerson, Albert. Programmed plate making machine. 3,639,056, 2-1-72, Cl. 355-40.

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Gerstein, Terry; Perlberg, William; and Schwarz, Milton, to Revlon, Inc. Solubilization of heavy metal salts of 1-hydroxy-2-pyridinethione. 3,636,213, 1-18-72, Cl. 424-245.

Gersten, Harold. Recreational rope-type article. 3,642,277, 2-15-72, Cl. 272-60.

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Gerstenberg, Dieter. Method for fabrication of thin film capacitor. 3,664,931, 5-23-72, Cl. 204-38.00a.

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Gerster, John F., to Riker Laboratories, Inc., mesne. N-Cyanobenzoylhaloalkylsulfonanilides. 3,647,874, 3-7-72, Cl. 260-556.

Gerstle, De Witt F., to General Motors Corporation. Method for manufacturing a shock absorber reservoir tube. 3,643,322, 2-22-72, Cl. 29-482.

Gerstmann, Joseph, to Steam Engine Systems Corporation. Heat exchange. 3,692,104, 9-19-72, Cl. 165-163.000.

Gerstner, Dieter, to Telefunken Patentverwertungsgesellschaft m.b.H. Method of dividing a semiconductor wafer. 3,673,016, 6-27-72, Cl. 156-6.000.

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Gertsch, Ernst; and Gertsch, Ulrich. Adjusting device for a ski-binding. 3,635,485, 1-18-72, Cl. 280-11.35.

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Gertsen, Kai, to Sybron Corporation. Positioner. 3,655,069, 4-11-72, Cl. 214-1.

Gertsen, Petr Petrovich; and Suverneva, Taisia Georgievna, to Permsky Politekhnichesky Institut. Method of purification of exhaust gases from nitric oxides. 3,695,828, 10-3-72, Cl. 23-2.00r.

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Gervais, Adrien C. Tobacco harvesting machine. 3,654,753, 4-11-72, Cl. 56-27.5.

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Gerwig, Jeffrey C., to Windings, Inc. Box with inwardly tapering guide cones for universal wind package with radial pay-out. 3,677,491, 7-18-72, Cl. 242-163.000.

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Gery, Herbert C.; and Samson, Marvin S., to Medical Electroscience and Pharmaceuticals, Inc. Apparatus for printing on convex surfaces. 3,635,154, 1-18-72, Cl. 101-44.

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Geschka, Hugo Werner; Oberhoff, Wolfgang; and Korb, Klaus, to Beges AG. Washing machine. 3,672,188, 6-27-72, Cl. 68-12.00r.
Geschwender, Robert C. Cellular structural products. 3,655,478, 4-11-72, Cl. 156-202.
Geschwender, Robert C. Fabrication of honeycomb type cellular material. 3,684,618, 8-15-72, Cl. 156-361.000.
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Getselev, Zinovy Naumovich. Induction apparatus for continuous and semicontinuous casting. 3,646,988, 3-7-72, Cl. 164-251.
Getselev, Zinovy Naumovich, to Kuibyshevsky Metallurgichesky zavod im V.I. Lenina. Apparatus for shaping ingots during continuous and semi-continuous casting of metals. 3,702,155, 11-7-72, Cl. 164-251.000.
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Geus, John W., to Stamicarbon N.V. Process for the preparation of acicular, submicroscopic, permanently magnetizable metal particles. 3,679,398, 7-25-72, Cl. 75-108.000.
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Gibas, Jack E., to General Motors Corporation. Adjustable control pedals for vehicles. 3,643,525, 2-22-72, Cl. 74-512.
Gibb, Alexander Ramsay Maund; and Darlow, Brian Benjamin, to Imperial Chemical Industries Limited. Maleic anhydride/alkyl vinyl ether copolymer. 3,632,561, 1-4-72, Cl. 260-78.5.
Gibb, Thomas B., Jr.: *See—*
Wynstra, John; and Gibb, Thomas B., Jr., 3,704,268.
Gibbins, Charles Lewis: *See—*
O'Hara, James; and Gibbins, Charles Lewis, 3,668,716.
Gibbon, John D., to Fiber Industries, Inc. Fibrillated film yarn. 3,695,025, 10-3-72, Cl. 57-140.00r.
Gibbons, Arthur S.: *See—*
Midulla, Guiseppe, 3,699,046.
Gibbons, Carl B.; Kerr, William C.; and Maddocks, Roger H., to Eastman Kodak Company. Web treatment method. 3,702,258, 11-7-72, Cl. 117-34.000.
Gibbons, Carl L., to Dow Chemical Company, The. Halogenated epoxides. 3,674,812, 7-4-72, Cl. 260-348.00r.
Gibbons, Edward F.; Smith, Douglas E.; and Tien, Tseng Y. Cerium activated solid solution yttrium gallium oxide phosphor. 3,657,140, 4-18-72, Cl. 252-301.4.
Gibbons, Harold M., to FMC Corporation. Power-actuated pipe coupler. 3,661,408, 5-9-72, Cl. 285-18.
Gibbons, John P.; and Wondolowski, Lawrence, to CPC International Inc. Polyurethane resins prepared from alkoxylated glucose derivatives. 3,706,726, 12-19-72, Cl. 260-210.00r.
Gibbons, Loren K., to FMC Corporation. Certain 5H-isoxazolo 5,4-d pyrimioin-4-ones. 3,679,682, 7-25-72, Cl. 260-256.40f.
Gibbons, Martin D.: *See—*
Fister, Karoly G.; and Gibbons, Martin D., 3,706,885.
Gibbs, Dale S.: *See—*
Moore, Carl; Gibbs, Dale S.; and Vanderhoff, John W., 3,639,148.
Gibbs, Dale S.; Wessling, Ritchie A.; and Wagener, Earl H., to Dow Chemical Company, The. Preparation of inherently colloidally stable interpolymer latexes by a continuous addition polymerization latexes by a continuous addition therewith. 3,637,432, 1-25-2, Cl. 117-161.
Gibbs, Edward E.: *See—*
Drexler, Karl F.; and Gibbs, Edward E., 3,691,416.
Gibbs, James C.; and Daninhersch, Harry, to Connor Engineering Corporation. Adjustable air pattern air diffuser. 3,677,165, 7-18-72, Cl. 98-40.0dl.
Gibbs, James W.: *See—*
Gibbs, John L.; and Gibbs, James W., 3,662,988.
Gibbs, James W.; and Gibbs, John L. Pipe cutting apparatus. 3,641,851, 2-15-72, Cl. 82-73.
Gibbs, James W.; and Gibbs, John L., to Marine Bank and Trust Company, mesne. Hydraulic flush tank. 3,677,294, 7-18-72, Cl. 137-572.000.
Gibbs, John L.: *See—*
Gibbs, James W.; and Gibbs, John L., 3,641,851.
Gibbs, James W.; and Gibbs, John L., 3,677,294.
Gibbs, John L.; and Gibbs, James W. Anti-reverse flow and syphon breaker valve assembly. 3,662,988, 5-16-72, Cl. 251-276.000.
Gibbs, Joseph B. Control device for self-propelled towed vehicle. 3,635,300, 1-18-72, Cl. 180-14.
Gibbs Manufacturing & Research Corporation: *See—*
Gates, Henry S., 3,649,879.
Gibbs, Norman E.: *See—*
Siesennop, W. Wayne; Gibbs, Norman E.; and Bartz, Edward S., 3,695,147.
Gibbs, Ralph Stuart. Solid state relay. 3,697,772, 10-10-72, Cl. 307-244.000.
Gibbs, Sam G., to Shell Oil Company. Diagnostic method for subsurface hydraulic pumping systems. 3,635,081, 1-18-72, Cl. 73-151.
Gibeaut, William A.: *See—*
Davis, James A.; Talbert, Sherwood G.; Hazard, Herbert R.; and Gibeaut, William A., 3,663,203.
Gibel, Stephen J. Expansion chambered, fail-safe muffler. 3,688,868, 9-5-72, Cl. 181-36.00a.
Giberson, Dudley F., Jr. Gas burner for furnaces, kilns, and the like. 3,697,000, 10-10-72, Cl. 239-407.
Giberson, Maurice C. Two pin point clip. 3,683,464, 8-15-72, Cl. 24-103.000.
Giberstein, Bernard, to Begy Societe Europeenne de Bas sans Couture. Method of manufacture of printed articles, in particular printed knitted articles. 3,698,899, 10-17-72, Cl. 96-27.000.
Gibian, Heinz: *See—*
Philippson, Rainer; Gibian, Heinz; Muftic, Mahmud; and Kaspar, Emanuel, 3,639,433.
Philippson, Rainer; Hauser, Helmut; Gibian, Heinz; Kaspar, Emanuel; and Kessler, Hans-Joachim, 3,674,815.
Gibier-Rambaud, Alain; and Blanc, Bernard, to Naphtachimie. Process for the preparation of polyurethane prepolymers comprising terminal isocyanate groups. 3,652,506, 3-28-72, Cl. 260-77.5.
Gible, Stephen J. Through-flow aspirator muffler. 3,688,870, 9-5-72, Cl. 181-55.000.
Gibney, Lloyd W., to American Optical Corporation. Rotary extrusion die. 3,664,789, 5-23-72, Cl. 425-131.
Gibs, Gabriel Joseph: *See—*
Remers, William Alan; Gibs, Gabriel Joseph; and Weiss, Martin Joseph, 3,700,684.
Gibson, Aaron F., Jr.: *See—*
King, Erwin D.; and Gibson, Aaron F., Jr., 3,681,965.
Gibson Associates Incorporated: *See—*
Gibson, Royal H., 3,690,496.
Gibson, Royal H., 3,693,847.
Gibson, C. R., Company, The: *See—*
Woodyard, John B., 3,651,591.
Gibson, Charles B., Jr., to Tektronix, Inc. Facsimile system. 3,679,824, 7-25-72, Cl. 178-6.70r.
Gibson, Charles I.; and Maley, Wayne A., to United States Steel Corporation. Rim lift bins. 3,704,808, 12-5-72, Cl. 220-97.00c.
Gibson, Charles M., to Universal Harvester Co., Inc. Mounting adaptor for a reel structure. 3,667,198, 6-6-72, Cl. 56-227.
Gibson, Earl D., to North American Rockwell Corporation. High speed digital transmission system. 3,638,122, 1-25-72, Cl. 325-42.
Gibson, Earl D., to North American Rockwell Corporation. Automatic transversal equalizer system. 3,651,316, 3-21-72, Cl. 235-152.
Gibson, Earl D., to North American Rockwell Corporation. Coarse carrier phase correction system. 3,667,050, 5-30-72, Cl. 325-323.000.
Gibson, Earl D., to North American Rockwell Corporation. High speed transmission receiver utilizing fine receiver timing and carrier phase recovery. 3,694,752, 9-26-72, Cl. 325-323.000.
Gibson, Earl D., to North American Rockwell Corporation. Fine timing recovery system. 3,697,689, 10-10-72, Cl. 178-69.50r.
Gibson, Earl D., to North American Rockwell Corporation. Automatic adaptive equalizer implementation amenable to MOS. 3,699,321, 10-17-72, Cl. 235-152.000.
Gibson, Elmer B.; and Stark, Eric K., to SCM Corporation. Communications equipment mounting assembly. 3,650,444, 3-21-72, Cl. 224-42.42.
Gibson, Franklin E.: *See—*
Swensen, Eugene L.; and Gibson, Franklin E., 3,696,578.
Gibson, Fred D., Jr.; Halker, Bruce B.; and Thayer, Robert L., to Pacific Engineering and Production Co. Electrodeposition of lead dioxide. 3,634,216, 1-11-72, Cl. 204-83.
Gibson, Fred D., Jr.; Rhees, Raymond C.; Gilson, James I.; and Halker, Bruce B. Method for removing solids build-up from cathodes of electrolytic cell. 3,706,646, 12-19-72, Cl. 204-149.000.
Gibson, Geoffrey M.: *See—*

Farquhar, James G.; Gibson, Geoffrey M.; and Joice, Brian J., 3,702,784.
Gibson, George W.: *See—*
McCamis, Marvin J.; and Gibson, George W., 3,680,036.
Winget, Clifford L.; Gibson, George W.; and Shultz, William S., 3,664,438.
Gibson, George William, to Otis Elevator Company. Elevator car with elements combining both structural and wiring housing functions. 3,707,205, 12-26-72, Cl. 187-1.00r.
Gibson, Harold F.: *See—*
Dodds, Thomas J., Jr.; Eagleson, Clegg; and Gibson, Harold F., 3,648,245.
Gorrell, Richard L.; and Gibson, Harold F., 3,687,536.
Gibson, J. James, to RCA Corporation. Apparatus permitting reliable selection of transmitted television message information. 3,649,749, 3-14-72, Cl. 178-5.6.
Gibson, J. James, to RCA Corporation. Control signal generating apparatus to permit reliable selection of transmitted television message information. 3,649,750, 3-14-72, Cl. 178-5.6.
Gibson, James Donald Mackay, to I.W.S. Nominee Company Limited. Textile process control. 3,635,191, 1-18-72, Cl. 118-7.
Gibson, Jerome W.: *See—*
Huetten, Clarence; and Gibson, Jerome W., 3,634,836.
Gibson, John G.: *See—*
Bjorum, Erick H.; Gibson, John G.; and Lindberg, Morgan C., 3,667,163.
Gibson, Kirkland H.; and Protzmann, Henry E. Composite elastic core yarn. 3,657,873, 4-25-72, Cl. 57-152.
Gibson, Leslie W., Jr.: *See—*
Pettit, Robert F.; Haas, Kenneth C.; and Gibson, Leslie W., Jr., 3,633,799.
Gibson, Lloyd R., to Food Methods, Inc. Method of making a bacon containing food product. 3,642,496, 2-15-72, Cl. 99-107.
Gibson, Paul; Campbell, Robert L., Jr.; and Smith, Guan, to Anderson, Clayton & Co. Process for making monoglycerides resistant to the formation of free fatty acids. 3,637,773, 1-25-72, Cl. 260-398.5.
Gibson, Robert Cameron: *See—*
Hayden, Howard Wayne, Jr.; Gibson, Robert Cameron; and Brophy, Jere Hall, 3,689,325.
Gibson, Robert G.: *See—*
Burton, Paul T.; Cole, Walter E.; Frassetto, Henry E., Jr.; Gibson, Robert G.; Greenberg, Allan; Handloff, Louis E.; and Radlinsky, Raymond, 3,673,575.
Gibson, Robert G., to Fluor Ocean Services, Inc. Apparatus for diverting a pipeline. 3,641,778, 2-15-72, Cl. 61-72.1.
Gibson, Robert G.; Mackin, John G., Jr.; Johnson, Paul K.; and Koop, Francis D., Jr., to Fluor Corporation. Rigid stinger with adjustable pipeline curvature means. 3,670,511, 6-20-72, Cl. 61-72.300.
Gibson, Rodney William, to U.S. Philips Corporation. Delay line. 3,671,887, 6-20-72, Cl. 333-30.000.
Gibson, Royal H., to Gibson Associates Incorporated. Safety closure for bottles. 3,690,496, 9-12-72, Cl. 215-9.000.
Gibson, Royal H., to Gibson Associates Incorporated. Bottle cap and pouring fitment assembly. 3,693,847, 9-26-72, Cl. 222-546.000.
Gibson, Thomas W.: *See—*
Pieper, Kenneth M.; and Gibson, Thomas W., 3,673,256.
Gibson, Thomas W., to Procter & Gamble Company, The. Certain nopinol derivatives. 3,636,069, 1-18-72, Cl. 260-466.
Gibson, Thomas W.; and Erman, William F., to Procter & Gamble Company, The. Cyclization of certain nopinol compounds to form 3-oxatricyclo [5.2.0.0.^{4,9}] nonyl compounds. 3,658,851, 4-25-72, Cl. 260-346.2.
Gibson, William R.: *See—*
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Gibson, William Wallace, to Glenn Company. Linear shunted transformer. 3,689,861, 9-5-72, Cl. 336-133.000.
Gichner Mobile Systems, Inc.: *See—*
Lane, Frank B.; and Fulmer, George M., 3,655,214.
Giconi, Renell A. Gas scrubber apparatus and method for use thereof. 3,637,192, 1-25-72, Cl. 261-17.
Giddey, Claude; and Dove, Georges, to Alfa-Laval AB. Production of cheese curd. 3,653,919, 4-4-72, Cl. 99-116.
Giddings & Lears, Inc.: *See—*
Skabunde, Steven Eldor, 3,698,725.
Giddings & Lewis, Inc.: *See—*
Achterberg, Raymond C., 3,668,773.
Achterberg, Raymond C.; and Bunker, Charles L., 3,691,618.
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Fitzner, Arthur O., 3,634,661.
Franklin, George H., 3,681,837.
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Giddings & Lewis Machine Tool Company: *See—*
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Giddings, David George; and Twist, Douglas, to Pilkington Brothers Limited. Method of toughening glass in an oil bath. 3,640,694, 2-8-72, Cl. 65-116.
Giddings, David George; and Murphy, David Duncan, to Pilkington Brothers Limited. Toughening of glass. 3,679,388, 7-25-72, Cl. 65-116.000.
Giddings, Sydney Arthur; and Valerius, Paul Nicholas, to Formica Corporation. Process for preparing a decorative laminate in which a thermoplastic film is used to absorb thermal shock shear stress. 3,701,706, 10-31-72, Cl. 156-306.000.
Gidge, Lester: *See—*
Atwood, Lamar T.; and Gidge, Lester, 3,675,285.
Gidge, Lester, to Monsanto Company. Heat sealing of porous materials. 3,671,709, 6-20-72, Cl. 219-10.530.
Gidge, Lester; and Poulin, Valmor R., Jr. Apparatus for making nonwoven pile material. 3,673,048, 6-27-72, Cl. 156-510.000.
Gidon Industries Limited: *See—*
Wright, Peter C.; and Kirsch, Donald L., 3,677,365.
Gidon, Marie-Claire: *See—*
Girard, Rene Fernand Victor; and Gidon, Marie-Claire, 3,666,641.
Gie, Ong Tjing: *See—*
La Grouw, Coenraad Maria; and Gie, Ong Tjing, 3,698,921.
Giebel, Buddy E.; and Reiter, Marilyn F. Covered file box. 3,645,437, 2-29-72, Cl. 229-44.
Giebel, Joseph L.; and Temple, Ernest E., to Mine Safety Appliances Company. Explosively actuated tool with magnetic head. 3,693,862, 9-26-72, Cl. 227-11.000.
Giebel, Walter C. Recovery of minerals. 3,700,103, 10-24-72, Cl. 209-169.000.
Giebelhausen, Charles W.: *See—*
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Giedd, Gary R.; and Perkins, Merlyn H., to International Business Machines Corporation. Method of fabricating coaxial wires in back panels. 3,659,340, 5-2-72, Cl. 29-627.
Giedo, Gary R.: *See—*
Barnard, John D.; Gaito, Carl C.; Giedo, Gary R.; Greene, Thomas G.; Lind, James W.; Perkins, Merlyn H.; and Pross, Charles M., 3,648,175.
Giegan, Yves; and Tacquet, Maurice, to Crepelle and Cie. Injector for fuel. 3,688,986, 9-5-72, Cl. 239-94.000.
Giehring, Horst: *See—*
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Giel, George James, to RCA Corporation. Apparatus for mounting and spacing a signal transducer with respect to a recording medium. 3,706,861, 12-19-72, Cl. 179-100.20p.
Giepel, Hans; Forster, Eckehard; and Heinemann, Wilfried, to Huttenwerk Oberhausen AG. Wire-coil winder. 3,704,610, 12-5-72, Cl. 72-11.000.
Giepen, Hubert M. Stamp vending machine having knife to separate stamps. 3,655,022, 4-11-72, Cl. 194-2.
Gier, Delta W.; and Wasleski, Daniel M., to Chemagro Corporation. Process of desiccating plants. 3,632,331, 1-4-72, Cl. 71-70.
Gier, Delta W.; and Wasleski, Daniel M., to Chemagro Corporation. Chloronitrophenyl ethers as nematocides. 3,655,893, 4-11-72, Cl. 424-250.
Gier, Delta W., to Baychem Corporation, mesne. Dialkenyl esters of aryloxyacetyl phosphonic acids as herbicides. 3,664,822, 5-23-72, Cl. 71-86.000.
Gier, Delta W.; and Wasleski, Daniel M. Chloronitrophenyl ethers as herbicides. 3,666,814, 5-30-72, Cl. 260-590.000.
Gier, Delta W.; and Wasleski, Daniel M., to Baychem Corporation, mesne. Ethers of dicarboxylic acids. 3,699,150, 10-17-72, Cl. 260-471.00r.
Gier, Delta W.; and Calhoon, Audra M., to Chemagro Corporation. Process of killing fungi with acetylenic ketones. 3,699,232, 10-17-72, Cl. 424-331.000.
Gier, Delta W.; and Wasleski, Daniel M., to Chemagro Corporation. Chloronitrophenyl esters of polycarboxylic acids. 3,706,786, 12-19-72, Cl. 260-479.00s.
Gierer, Josef Franz; and Norin, Carl Torbjorn, to Svenska Traforskningsinstitutet. Lignin-preserving bleaching of cellulose pulp. 3,694,309, 9-26-72, Cl. 162-65.000.
Gieringer, Robert G.; Gieringer, Robert H.; and Gieringer, William A. Sod pick-up machine. 3,650,330, 3-21-72, Cl. 172-19.
Gieringer, Robert H.: *See—*
Gieringer, Robert G.; Gieringer, Robert H.; and Gieringer, William A., 3,650,330.
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Gierth, Volker; Gropper, Hans; Meitzner, Franc Georg; and Urban, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polyethylene by the high pressure process using a mixture of tertiary butyl hydroperoxide and oxygen as the initator. 3,691,145, 9-12-72, Cl. 260-94.90r.

Gies, Robert M.: *See—*
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Giese, Elroy J., to Tomlinson Industries, Inc. Vessel mooring devices. 3,695,209, 10-3-72, Cl. 114-230.000.

Giese, Emil; Maurer, Ruprecht; and Timtner, Karlheinz, to Ringspann Albrecht Maurer K.G. One-way clutch having tiltable sprags. 3,702,649, 11-14-72, Cl. 192-41.00a.

Giese, Ludi: *See—*
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Giesecke, Albert S.: *See—*
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Giesecke, Albert S. Picture frame. 3,645,025, 2-29-72, Cl. 40-152.

Giesecke, Frederick Adolph, to CPC International Inc. Pressure venting assembly. 3,677,290, 7-18-72, Cl. 137-528.000.

Gieseke, Elmer William; and Howald, Frank Peterson, to American Cyanamid Company. Liquid cationic flotation composition. 3,640,862, 2-8-72, Cl. 252-61.

Gieseke, Hans Alwin Erich; deceased (by Gieseke, Ingrid Nora Hansine; heir); Nogaj, Alfred; Schiefer, Josef; and Rinkler, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Method of and apparatus for drying wet filament tows. 3,665,613, 5-30-72, Cl. 349.

Gieseke, Ingrid Nora Hansine: *See—*
Gieseke, Hans Alwin Erich; Nogaj, Alfred; Schiefer, Josef; and Rinkler, Heinrich, 3,665,613.

Gieseking, Carl W.; and Sullivan, James D., to Monsanto Company. Oxidative treatment of polyphenyl thioethers. 3,647,752, 3-7-72, Cl. 260-609.

Giesemann, Herbert. Apparatus for continuous mixing of two liquid agents to obtain a foamed synthetic product. 3,703,345, 11-21-72, Cl. 425-4.000.

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Schroeder, Hans-Detlef; Merz, Herbert; Langbein, Adolf; Freter, Kurt; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Wick, Helmut, 3,689,492.
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Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Karl Heinz, 3,684,798.
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Giesfeldt, William Otto; and Pinnow, Roy Lee, to Globe-Union Inc. Method for forming ohmic contacts. 3,678,569, 7-25-72, Cl. 29-473.100.

Giesken, Kenneth F., to Bell Telephone Laboratories, Incorporated. Switching network path reservation arrangement. 3,637,945, 1-25-72, Cl. 179-18.

Giesman, Richard C.; and Schwedland, Ronald P., to General Motors Corporation. Blade cooling liner. 3,635,587, 1-18-72, Cl. 416-97.

Giess, Edward A.: *See—*
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Giesy, Jerry D.; Smith, Gordon E.; and Schneider, Jack M., to Medidyne Corporation. Dilator device. 3,704,712, 12-5-72, Cl. 128-345.000.

Gievers, John George. Rotation sensitive retarder system. 3,692,385, 9-19-72, Cl. 350-157.000.

Giffard, Louis; and Fougeray, Jean. Shaping molds for producing film-like articles. 3,640,664, 2-8-72, Cl. 425-275.

Giffard, Louis Henri Jules: *See—*
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Giffen, James W.; Duke, David A.; Dumbaugh, William H., Jr.; Flannery, James E.; MacDowell, John F.; and Megles, John E., to Corning Glass Works. Glass laminated bodies comprising a tensilely stressed core and a compressively stressed surface layer fused hereto. 3,673,049, 6-27-72, Cl. 161-164.000.

Giffen, James W. Article transfer apparatus. 3,677,419, 7-18-72, Cl. 214-1.0bv.

Gifford, Howard W.: *See—*
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Gifford, Maurice J.; and Seiferth, Oscar E., to Mayer, Oscar, & Co., Inc. Method of making rigid packages from flexible films and products produced thereby. 3,648,834, 3-14-72, Cl. 206-46.

Gifford, Maurice J.; Seiferth, Oscar E.; and Grindrod, Paul E., to Mayer, Oscar, & Co., Inc. Method of producing laminated film for packaging use. 3,698,979, 10-17-72, Cl. 156-244.000.

Gifford, Robert T., to Vernay Laboratories, Inc. Valve assembly. 3,693,651, 9-26-72, Cl. 137-493.000.

Gifford, Robert T., to Vernay Laboratories, Inc. Valve responsive to temperature changes over a limited range. 3,696,997, 10-10-72, Cl. 236-102.000.

Gifford, William E.: *See—*
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Gifft, T. H., Co., Inc.: *See—*
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Gifft, Thomas H., 3,674,923.

Gifft, Thomas H.; and Adams, Francis E., to Gifft, T. H., Co., Inc. Facsimile system. 3,655,914, 4-11-72, Cl. 178-69.5.

Gifft, Thomas H., to Gifft, T. H., Co., Inc. Facsimile system with improved scanning. 3,674,923, 7-4-72, Cl. 178-6.60r.

Gigliardi Research Corporation: *See—*
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Giglio, Dominick; and Wade, Glen, to United States of America, Army. Photosensitive surface shaping for optical heterodyning. 3,695,766, 10-3-72, Cl. 356-141.000.

Giglio, Gino. Adjustable fluid inlet spout. 3,662,406, 5-16-72, Cl. 4-1.

Giglio, John W. Tone modifier and muffler for piano. 3,640,171, 2-8-72, Cl. 84-216.

Gignac, Robert J., to Thunderline Corporation. Articulated link seals. 3,703,297, 11-21-72, Cl. 277-166.000.

Gignoux, Dominique: *See—*
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Gijutsu Kenkyu Kumiai Amaike Kenyusho: *See—*
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Giken Kogyo Kabushiki Kaisha: *See—*
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Gikow, Emanuel, to United States of America, Army. Anisotropic crystal circuit. 3,686,591, 8-22-72, Cl. 333-70.000.

Gil, Ramon, to G-V Controls, Inc. Multi-station shared automatic dialing apparatus. 3,702,905, 11-14-72, Cl. 179-90.0bd.

Gila River Recreation Industries, Inc.: *See—*
Greif, Herbert C., 3,680,909.

Gilani, Syed S. H.; Murray, Donald W.; and Salva, Juan M., to Esso Research and Engineering Company. Two-stage preparation of high dropping point lithium soap grease. 3,681,242, 8-1-72, Cl. 252-41.000.

Gilardi, Emilio: *See—*
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Gilb, Tyrell T., to Simpson Company. Grip groove hanger. 3,633,950, 1-11-72, Cl. 287-20.94.

Gilbert & Barker Manufacturing Company: *See—*
Crandall, Stanley C.; Harris, Billy J.; and Nelson, Richard L., 3,662,924.
Crandall, Stanley C.; and Puryear, David B., 3,693,500.
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Gilbert, Alfred R.: *See—*
Becker, Hans-Dieter; and Gilbert, Alfred R., 3,637,593.

Gilbert, Andre Nicolaon: *See—*
Teichner, Stanislas Jean; and Gilbert, Andre Nicolaon, 3,672,833.

Gilbert, Arthur E., to Sears, Roebuck and Co. Outboard motor mounting bracket. 3,698,672, 10-17-72, Cl. 248-4.000.

Gilbert, Arthur N.: *See—*
Kempson, George C.; and Gilbert, Arthur N., 3,682,476.

Gilbert Associates, Inc.: *See—*
Shields, William B.; Willems, Victor H.; and Sailer, William F., 3,668,472.

Gilbert, Barrie, to Tektronix, Inc. Character generator apparatus. 3,651,510, 3-21-72, Cl. 240-324.

Gilbert, Barrie, to Tektronix, Inc. Four-quadrant multiplier circuit. 3,689,752, 9-5-72, Cl. 235-194.000.

Gilbert, Barrie, to Tektronix, Inc. Solid state scanning device. 3,697,785, 10-10-72, Cl. 307-303.000.

Gilbert, Daniel Eugene; Nelson, Larry Ralph; Sturgeon, Charles Edwin; and Thom, Robert Keith, to Vulcan Materials Company. Pulverulent drain cleaning composition. 3,666,670, 5-30-72, Cl. 252-160.

Gilbert, David Arthur: *See—*
Arnold, Benjamin Harry; Fildes, Robert Anthony; and Gilbert, David Arthur, 3,658,649.

Gilbert, David Stone, to Imperial Chemical Industries Limited. Manufacture of laminated articles. 3,684,598, 8-15-72, Cl. 156-79.000.
Gilbert, Dixie E., to Phillips Petroleum Company. Propylene polymer composition containing small amounts of urea, phthalic anhydride, and PVC. 3,644,592, 2-22-72, Cl. 260-897.
Gilbert, Dixie E., to Phillips Petroleum Company. Stellite neck forming plug for blow molding oriented articles. 3,649,150, 3-14-72, Cl. 425-297.
Gilbert, Dixie E., to Phillips Petroleum Company. Oriented articles from retracted blank. 3,662,049, 5-9-72, Cl. 264-89.
Gilbert, Dixie E., to Phillips Petroleum Company. Sealing parisons using preblow and contoured sealing surface. 3,686,379, 8-22-72, Cl. 264-89.000.
Gilbert, Dixie E., to Phillips Petroleum Company. Alternate projections in sealing member. 3,687,593, 8-29-72, Cl. 425-387.000.
Gilbert, Dixie E., to Phillips Petroleum Company. Forming plug for blow molding oriented articles. 3,695,805, 10-3-72, Cl. 425-393.000.
Gilbert, Edward O., to Applied Dynamics, Inc. Transistor gating circuit for analog data transmission system. 3,633,165, 1-4-72, Cl. 340-147.
Gilbert, Edward O., to Reliance Electric Company. DC amplifier power-limited output stage. 3,636,464, 1-18-72, Cl. 330-24.
Gilbert, Everett A.; and Williams, Channing S., to RFL Industries, Inc. Capacitor charging circuit. 3,659,178, 4-25-72, Cl. 320-1.
Gilbert, Everett E.: *See—*
Dear, Robert E. A.; and Gilbert, Everett E., 3,646,221.
Gilbert, Everett E.; and Dear, Robert E. A., to Allied Chemical Corporation. Process for preparing fluoroisobutylenes and novel product. 3,655,786, 4-11-72, Cl. 260-653.3.
Gilbert, Frederick W.: *See—*
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Gilbert, George J.: *See—*
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Gilbert, Ina. Design elements for creating artistic compositions. 3,665,617, 5-30-72, Cl. 35-27.000.
Gilbert, Jack A.; and Franklyn, Stanley, to Container Company of New York. Apparatus for manufacturing corrugated angle members. 3,652,367, 3-28-72, Cl. 156-463.
Gilbert, Jack J.: *See—*
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Gilbert, Jerry E., 50% to Foster, James Craig, Jr. Hair collecting collar for barbershop use. 3,693,634, 9-26-72, Cl. 132-9.000.
Gilbert, John B.; and Kartzmark, Robert, to Esso Research and Engineering Company. Preparation of white oils with aluminum-alkyl activated iron group metal catalysts. 3,658,692, 4-25-72, Cl. 208-89.
Gilbert, Karen T.: *See—*
Gilbert, Stuart John; and Gilbert, Karen T., 3,643,997.
Gilbert, Stuart John; and Gilbert, Karen T., 3,680,916.
Gilbert, Kendall E., to General Electric Company. Manual and automatic master-slave control system. 3,644,816, 2-22-72, Cl. 318-663.
Gilbert, Kendall E. Manipulator system. 3,693,504, 9-26-72, Cl. 91-385.000.
Gilbert, LeLand Glen: *See—*
Hunger, Richard H.; and Gilbert, LeLand Glen, 3,705,656.
Gilbert, Leslie Arthur, to Ray and Gilbert Proprietary Limited. Drafting machine. 3,673,691, 7-4-72, Cl. 33-79.00r.
Gilbert, Lloyd A., 51% to Pozzi, Frank, Wilson, Donald R., Atchison, Donald and Kahn, Garry. Lumber slicing apparatus. 3,658,103, 4-25-72, Cl. 144-162.
Gilbert, Lynford W.: *See—*
Rushing, Frank C.; Gilbert, Lynford W.; and Simon, Albert B., 3,635,547.
Gilbert, Paul T., to Beckman Instruments, Inc. Osmometer. 3,635,075, 1-18-72, Cl. 73-64.3.
Gilbert, Ronald E.: *See—*
Anspon, Harry D.; Clampitt, Bert H.; and Gilbert, Ronald E., 3,674,761.
Anspon, Harry D.; Clampitt, Bert H.; and Gilbert, Ronald E., 3,681,313.
Gilbert, Roswell W., to Technical Management Services, Inc. Target indicating system and method. 3,678,495, 7-18-72, Cl. 340-323.000.
Gilbert, Roswell W., to Technical Management Services, Inc. Magnetic support and motor structure. 3,698,775, 10-17-72, Cl. 308-10.000.
Gilbert, Samuel, to Hydro Manufacturing, Inc. Diverter valve assembly. 3,667,683, 6-6-72, Cl. 239-428.5.
Gilbert, Stuart John; and Gilbert, Karen T., to Harter Corporation. Seating unit and web therefor. 3,643,997, 2-22-72, Cl. 297-441.
Gilbert, Stuart John; and Gilbert, Karen T., to Harter Corporation. Lounge seating unit and web therefor. 3,680,916, 8-1-72, Cl. 297-440.000.
Gilbert, Walter W.: *See—*
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Spencer, John H.; Ramsey, Richard T.; and Gilbertson, Warren L., 3,669,021.
Gilbertson, Warren L.; Shelton, Everett T., Jr.; and Southall, Hobert M., to United States of America, Navy. Electronically controlled aimed blast warhead. 3,703,865, 11-28-72, Cl. 102-56.000.
Gilbey Equipment Ltd.: *See—*
Scott, Herbert W., 3,664,384.
Gilbo, Charles F.; and Johnson, Norman A., to Armstrong Cork Company. Apparatus and method of installing a spline in a ceiling board joint. 3,640,045, 2-8-72, Cl. 52-747.
Gilbreath, Dennis R., to United Aircraft Corporation. Function generator. 3,643,107, 2-15-72, Cl. 307-229.
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Gilbreth International Corporation: *See—*
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Gilbride, Andrew J.: *See—*
Simmonds, Robert C., Jr.; and Gilbride, Andrew J., 3,632,022.
Gilby, Anthony C., to Wilks Scientific Corporation. Apparatus and method for analysis by attenuated total reflection. 3,669,545, 6-13-72, Cl. 356-74.000.
Gilby, Patricia G., to Hercules Incorporated. Inhibiting the precipitation and/or deposition of ferric hydroxide in aqueous systems. 3,639,292, 2-1-72, Cl. 252-179.
Gilby, Patricia G.; and Heineman, William R., to Hercules Incorporated. Hexavalent chromium reduction. 3,679,557, 7-25-72, Cl. 204-97.000.
Gilch, Heinrich; Darsow, Gerhard; Bottenbruch, Ludwig; Lorenz, Gunter; Kunzel, Hans Egon; Nischk, Gunther; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of nitroarylether-monocarboxylic acids and their esters.3,642,882, 2-15-72, Cl. 260-520.
Gilch, Heinrich; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamide foams. 3,679,613, 7-25-72, Cl. 260-2.50n.
Gilch, Heinrich; Damsky, Walter; and Reinking, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamide foam. 3,682,847, 8-8-72, Cl. 260-2.50n.
Gilch, Heinrich; Schneider, Kurt; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamide foams. 3,702,313, 11-7-72, Cl. 260-2.50n.
Gilch, Heinz; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Esters of substituted phenoxyphthalic acids. 3,686,266, 8-22-72, Cl. 260-465.00d.
Gilchrist, Allan E., to SCM Corporation. Surfacer treating process for blemished electrocoat substrates and surfacer composition therefor. 3,671,464, 6-20-72, Cl. 252-511.000.
Gilchrist, Allan E., to SCM Corporation. Process for electrolytic treatment of liquors using pressure cell with porous electrode means. 3,679,565, 7-25-72, Cl. 204-180.00r.
Gilchrist, Allan E., to Ford Motor Company. Multi-component electrocoating compositions. 3,679,615, 7-25-72, Cl. 260-3.300.
Gilchrist, Allan E., to SCM Corporation. Cathodic electrocoating process. 3,682,814, 8-8-72, Cl. 204-181.000.
Gilchrist, Allan E., to Ford Motor Company. Process for electrodepositing paint. 3,699,030, 10-17-72, Cl. 204-181.000.
Gilchrist, David W. Structural member. 3,645,487, 2-29-72, Cl. 248-354.
Gilchrist, David W. Spherical game. 3,666,269, 5-30-72, Cl. 273-115.000.
Gilchrist, David W. Aquatic vehicle. 3,675,259, 7-11-72, Cl. 9-310.00g.
Gilchrist, Forbes D., to Motorola, Inc. Alternator regulator circuit. 3,702,433, 11-7-72, Cl. 322-28.000.
Gilchrist, Ralph E.; and Brown, Morton E., to Tenneco Oil Company. Apparatus and method for computing drilling costs. 3,660,649, 5-2-72, Cl. 235-193.000.
Gilchrist, Reginald Selby, to Klinger Manufacturing Company, Ltd., The. False twist texturizing method and apparatus. 3,656,288, 4-18-72, Cl. 57-34.
Gildea, Colin T., to Pilkington Brothers, Limited. Falling film cooling of molten glass. 3,656,929, 4-18-72, Cl. 65-129.
Gildner, Kenneth J., to Laboratory Data Control, Inc. Liquid flow meter. 3,693,436, 9-26-72, Cl. 73-194.00e.
Gile, Richard H., to Howe Richardson Scale Company. Motion detector for weighing apparatus. 3,674,097, 7-4-72, Cl. 177-3.000.
Giles, George R.; and Shuda, Donald G., to Sanders Associates, Inc. Data demodulator employing comparison. 3,656,064, 4-11-72, Cl. 329-104.
Giles, Harold; and Noble, Marshall, to Wonder Curl Limited. Hair reforming devices. 3,680,565, 8-1-72, Cl. 132-9.000.
Giles, James, to American Chain & Cable Company, Inc. Conveyor system. 3,684,073, 8-15-72, Cl. 193-36.000.
Giles, Kenneth E.: *See—*
Sawyer, Elbert M.; Brown, Joseph M.; Munden, Curtis D.; and Giles, Kenneth E., 3,702,429.
Giles, Ralph R.: *See—*
Weaver, Max A.; and Giles, Ralph R., 3,689,501.
Giles, Walter W. Tallying devices. 3,677,221, 7-18-72, Cl. 116-135.000.

Giles, Walter W.; and Madden, Norman W. Electric soldering irons. 3,691,342, 912-72, Cl. 219-233.000.
Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Idayatov, Tofik Kudrat Ogly; Proshian, Nea Eachievna; Sarkisov, Rafael Tevosovich; and Stepanian, Ernst Arakelovich. Method of continuous feed of separate straps in process of blanking. 3,651,774, 3-8-72, Cl. 113-113.
Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Kamalov, Gennady Nikolaevich; Sarkisov, Rafael Tevosovich; Stepanian, Ernst Arakelovich; and Shakhmaliev, Rustam Makhmud Ogly. Compound die for punching sheet members from circular blanks in punch prssers with vertical disposition of blanking planes. 3,656,381, 4-18-72, Cl. 83-133.
Gilewski, Heinz; and Wolf, Jurgen, to Volkswagenwerk Aktiengesellschaft. Internal combustion engine with an air inlet valve and a fuel injection valve. 3,704,694, 12-5-72, Cl. 123-32.0vn.
Gilford Instrument Laboratories Inc.: *See—*
Gilford, Saul R., 3,645,252.
Gilford, Saul R., 3,647,386.
Gilford, Saul R.; and Echeagaray, Ignacio P., 3,667,662.
Gorgone, Robert L.; and Emary, Robert J., 3,646,313.
Gilford, Saul R., to Gilford Instrument Laboratories Inc. Apparatus for sampling blood or the like fluid. 3,645,252, 2-29-72, Cl. 128-2.
Gilford, Saul R., to Gilford Instrument Laboratories, Inc. Sample processing container. 3,647,386, 3-7-72, Cl. 23-230.
Gilford, Saul R.; and Echeagaray, Ignacio P., to Gilford Instrument Laboratories, Inc. Capillary tube cutting and feeding apparatus. 3,667,662, 6-6-72, Cl. 225-96.5.
Gilges, Fred: *See—*
Metzger, Hans Siegfried; and Gilges, Fred, 3,659,451.
Gilgien, Heinz; Koegel, Gerhard; and Harris, Melvin, to Ciba Limited. Disperse or monosulfonated acid dye printed nylon resisted with hydroxy diaryl sulfone-formaldehyde condensate. 3,663,157, 5-16-72, Cl. 8-65.
Gilgoff, Herman. Remote control automobile theft prevention mechanism. 3,669,211, 6-13-72, Cl. 180-112.000.
Gilgore, William H.: *See—*
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Gilham, Gay Maude: *See—*
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Gilham, George Henry; deceased (by Gilham, Gay Maude; administratrix); and Door, Wesley R., to USM Corporation, mesne. Ring cutting tool. 3,665,797, 5-30-72, Cl. 83-411.000.
Gilinger, Jean A. Decorative space-saving vanity. 3,684,344, 8-15-72, Cl. 312-223.000.
Gilissen, Hermanus Petrus Johannes, to AMP Incorporated, mesne. Modular terminal block with mounting foot. 3,662,298, 5-9-72, Cl. 339-198.
Giljarhus, Gunnar; and Vien, Hans, to A/S Raufoss Ammunisjonsfabrikker. Projectile with multiple effect. 3,677,181, 7-18-72, Cl. 102-52.000.
Gilks, James Harris, to Imperial Chemical Industries Limited. Fuel gas for cutting operations. 3,706,542, 12-19-72, Cl. 48-197.0fm.
Gill, Brian; and Moulding, Kenneth William. High frequency integrated circuit having circuit elements in separate and mutually spaced isolation regions. 3,688,132, 8-29-72, Cl. 307-303.000.
Gill, Edward W.; and Vincent, Derek A., to Moore Business Forms Inc. Continuous stationery guide means. 3,672,483, 6-27-72, Cl. 197-133.000.
Gill, George W. Apparatus and method for the prevention of ice in waterways. 3,660,983, 5-9-72, Cl. 61-1.
Gill, Henry L., to United States of America, Navy. Telescoping sea floor soil sampler. 3,667,553, 6-6-72, Cl. 175-6.000.
Gill, Homer R., to Goodyear Tire & Rubber Company, The. End post insulator. 3,666,175, 5-30-72, Cl. 238-152.000.
Gill, James W., to Hercules Incorporated. Polysaccharide process. 3,632,570, 1-4-72, Cl. 260-209.
Gill, Thomas R., to G S Equipment Company. Covers for plating barrels and the like. 3,653,700, 4-4-72, Cl. 292-49.
Gill, William G., to Electrothermic Co., The. Electrical method and apparatus for the recovery of oil. 3,642,066, 2-15-72, Cl. 166-248.
Gill, William L.: *See—*
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Gillberg, Eisa: *See—*
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Thompson, John T.; and Gillemot, George W., 3,699,494.
Gillemot, George W.; and Thompson, John T. Service line branchout facility for communication cables. 3,654,584, 4-4-72, Cl. 339-14.
Gillemot, George W.; and Thompson, John T. Protective enclosure for test instrument. 3,665,991, 5-30-72, Cl. 150-52.
Gillemot, George W., to Plummer, Walter A. Method of protecting metal-clad cables from attack by stray currents. 3,669,777, 6-13-72, Cl. 156-54.000.
Gillemot, George W.; and Thompson, John T. Universal sheath bond for communications cable. 3,676,836, 7-11-72, Cl. 339-97.00r.
Gillen, Gerard J., Jr.: *See—*
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Giller, Arnold, to Chemische Werke Albert. Process for the preparation of etherified melamine resins. 3,647,755, 3-7-72, Cl. 260-67.6.
Giller, Solomon Aronovich; Zhuk, Regina Abramovna; Lidak, Marger Jurievich; and Zidermane, Aina Avgustovna. N,-(2'-Furanidyl)-derivatives of 5-substituted uracils. 3,635,946, 1-18-72, Cl. 260-211.5.
Giller, Solomon Aronovich; Sokolov, Georgy Petrovich; Kimenis, Agris Adolfovich; and Klusha, Via Ekabovna. Diiodomethylate 1,2-bis(4'-pyrrolydinomethyl-1'-3'-dioxolanyl-2')ethane. 3,661,929, 5-9-72, Cl. 260-326.5.
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Gillery, Frank H., to PPG Industries, Inc. Process for forming electroconductive tin oxide films by pyrolyzation of alkyl and aryl tin fluorides. 3,677,814, 7-18-72, Cl. 117-211.000.
Gilles, Jack C., to Goodrich, B. F., Company, The. Hydroxyphenylalkyleneyl isocyanurates. 3,637,582, 1-25-72, Cl. 260-45.8.
Gilles, Jack C., to Goodrich, B. F., Company, The. Pehnolix isocyanurates used as stabilizers. 3,644,277, 2-22-72, Cl. 260-45.8.
Gilles, Jack C., to Goodrich, B. F., Company, The. Process for the preparation of hydroxybenzyl esters of cyanuric acid. 3,669,961, 6-13-72, Cl. 260-248.0ns.
Gilles, Jack C., to Goodrich, B. F., Company, The. Hydroxyphenylalkyleneyl isocyanurate synergist combinations. 3,702,837, 11-14-72, Cl. 260-45.80n.
Gillespie, Bruce G.; and Ryer, Jack, to Esso Research and Engineering Company. Reducing fouling deposits in process equipment. 3,645,886, 2-29-72, Cl. 208-48.
Gillespie, George Richard, to Engelhard Minerals & Chemicals Corporation. Process for ammonia oxidation. 3,660,024, 5-2-72, Cl. 23-162.000.
Gillespie, Helen A. Basket and tray. 3,647,077, 3-7-72, Cl. 211-126.
Gillespie, James Francis, to AMP Incorporated. Crimping dies for terminating foil conductor in a foil conductor termination and foil locator and holder therefor. 3,706,121, 12-19-72, Cl. 29-203.00h.
Gillespie, Peter J.: *See—*
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Gillespie, Robert A., to Stauffer Chemical Company. Control injection system for drycleaning apparatus in systems. 3,653,234, 4-4-72, Cl. 68-12.
Gillespie, Robert F.: *See—*
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Gillespie, Robert M.; and Rhys, Hugh R., to Sortex Company of North America, Inc. Refuse separating and sorting method and apparatus. 3,650,396, 3-21-72, Cl. 209-3.
Gillespie, William Stanley, to American Can Company. Brim curling apparatus. 3,632,274, 1-4-72, Cl. 18-19.
Gillett, Colin, to General Electric Company. Type (S) fuse automation. 3,706,063, 12-12-72, Cl. 337-262.000.
Gillett, Jimmie Douglas, to Electric Machinery Mfg. Company. Power supply circuit to simultaneously vary frequency and amplitude in a motor speed control. 3,704,403, 11-28-72, Cl. 318-227.000.
Gillette Company, The: *See—*
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Gillham, Helen Currier; Sherr, Allan Ellis; and Klein, Harvey Gerald, to American Cyanamid Company. Flame-retardant agents for thermoplastic products. 3,654,342, 4-4-72, Cl. 260-465.8.

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Gillhaus, Horst; and Simons, Emil, to Aktiengesellschaft Brown, Boveri & Cie. Heated casting ladle support arrangement. 3,688,951, 9-5-72, Cl. 222-166.000.

Gilliam, Joe L., to Melvin, Mary. Line clamp. 3,645,032, 2-29-72, Cl. 43-44.9.

Gilliam, Joe L., to Melvin, Mary E. Salt water sinker. 3,701,212, 10-31-72, Cl. 43-44.870.

Gilliam, Kenneth D.; and Kehe, Alfred W., to Continental Can Company, Inc. Polyethylene coated metal substrate and process of preparing same. 3,650,809, 3-21-72, Cl. 117-75.

Gilliam, Paul V.: *See—*
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Gillich, Thomas N., to Azoplate Corporation. Light-sensitive diazo condensate containing reproduction material. 3,679,419, 7-25-72, Cl. 96-91.00r.

Gillick, Jack W., to Park-Ohio Industries, Inc. Apparatus and method of inductively heating and quench hardening an elongated workpiece. 3,674,247, 7-4-72, Cl. 266-4.00e.

Gillies, George Marshall; and Littlechild, James, to United Kingdom Atomic Energy Authority. Rotary kilns. 3,698,697, 10-17-72, Cl. 263-32.00r.

Gillig, Witmar: *See—*
Von, Angerer Roland; and Gillig, Witmar, 3,701,183.

Gilligan, Joseph Edward. Relief or intaglio plastic plate and method of manufacture thereof. 3,658,532, 4-25-72, Cl. 96-36.3.

Gilligan, Patrick J.: *See—*
Bergly, Richard N.; and Gilligan, Patrick J., 3,658,223.

Gilligan, William H.; and McQuistion, William E., to United States of America, Navy. Preparation of certain difluoroamino compounds. 3,699,168, 10-17-72, Cl. 260-583.0nh.

Gillikin, Bobby G., 1/2 to Willis, Martha Ann. Shoe with interchangeable heels. 3,646,497, 2-29-72, Cl. 36-58.5.

Gilliland, Edwin R. Electrolytic ion exchange apparatus. 3,645,884, 2-29-72, Cl. 204-301.

Gillitzer, Max: *See—*
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Gillman, Hyman David: *See—*
Block, Burton Peter; Nannelli, Piero Luigi; Gillman, Hyman David; and Thomas, Paula Marion, 3,663,460.

Gillmer, Arnold H.; and Hance, Harold V., to Hughes Aircraft Company. Coherent-angle tracking system incorporating target-velocity tracking apparatus. 3,706,991, 12-19-72, Cl. 343-7.700.

Gillon, John: *See—*
Gates, Peter Stuart; Gillon, John; and Saggers, David Thomas, 3,689,507.

Gillooly, George R., to General Electric Company. Preparation of halophosphate phosphors using antimony-doped calcium pyrophosphate. 3,639,253, 2-1-72, Cl. 252-301.4.

Gillooly, George R.; and Rabatin, Jacob G., to General Electric Company. Alkali monosulfide recrystallization of lanthanide oxysulfide luminescent material. 3,647,707, 3-7-72, Cl. 252-301.4.

Gillott, Joseph, & Sons Limited: *See—*
Brassington, Harry; and Aston, Jack Ralph, 3,670,361.

Gillstrom, Robert B., to Westinghouse Electric Corporation. Gage control system for hot rolling mills. 3,691,801, 9-19-72, Cl. 72-9.000.

Gillum, Daniel L.; and Gillum, Donald E., to Information Magnetics Corporation. Linear positioner for magnetic transducer. 3,665,433, 5-23-72, Cl. 340-174.10f.

Gillum, Donald E.: *See—*
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Gillum, Donald E., to Information Magnetics Corporation. Combined linear motor and carriage. 3,656,015, 4-11-72, Cl. 310-13.

Gillund, Arden G.; Holtshouse, Dan K.; Moretti, John A.; and Orlando, Vincent A., to General Motors Corporation. Variable capacitor crash sensor. 3,703,300, 11-21-72, Cl. 280-150.0ab.

Gilman, Bruce Calvin: *See—*
Brown, Louis Stanislaus; March, Frank Adams; Bishop, Richard Patten; and Gilman, Bruce Calvin, 3,650,406.
Hettinger, Frederic Lee; and Gilman, Bruce Calvin, 3,647,253.

Gilman, Bruce Calvin, to Ocean Systems, Inc. System for aligning two pipelines. 3,658,231, 4-25-72, Cl. 228-4.

Gilman, Gareld I.; and Wallace, Robert H., to Honeywell Inc. Firing means for discharge tubes. 3,693,044, 9-19-72, Cl. 315-57.000.

Gilman, Harold: *See—*
Hoch, Robert; and Gilman, Harold, 3,644,432.

Gilman, John E., III: *See—*
Prouty, Robert E.; Gilman, John E., III; and Smith, James J., 3,656,076.

Gilman, Marvin A.: *See—*
Krupen, Ira; and Gilman, Marvin A., 3,693,383.

Gilman, Michael G. Pole display construction. 3,683,527, 8-15-72, Cl. 40-125.00g.

Gilman, Paul B., Jr.: *See—*
Haefner, John A.; and Gilman, Paul B., Jr., 3,653,899.

Gilman, Paul B., Jr., to Eastman Kodak Company. Positive metal image-forming element and process. 3,649,272, 3-14-72, Cl. 96-36.

Gilman, Paul B., Jr.; and Bass, Jon D., to Eastman Kodak Company. Silver halide emulsion containing silver ethynylcyclopentanol complex to reduce desensitization of optical sensitizing dye incorporated therein. 3,706,569, 12-19-72, Cl. 96-134.00r.

Gilman, Paul Brewster, Jr.: *See—*
Spence, John; Gilman, Paul Brewster, Jr.; and Ulbing, Cynthia Geer, 3,687,676.
Spence, John; Gilman, Paul Brewster, Jr.; and Ulbing, Cynthia Geer, 3,690,891.

Gilman, Paul Brewster, Jr., to Eastman Kodak Company. Direct positive print-out silver halide emulsion fogged to visible density. 3,650,758, 3-21-72, Cl. 96-101.

Gilman, Richard F.: *See—*
Johnson, Allan M.; and Gilman, Richard F., 3,697,410.

Gilman, Robert W., to California Pellet Mill Company. Extrusion mill with roller adjustment means. 3,679,343, 7-25-72, Cl. 425-331.000.

Gilman, Samuel: *See—*
Burton, John S.; Gilman, Samuel; Rothbart, Michael; and Whitney, Ronald L., 3,645,619.

Gilman, William S.; Jones, John L.; and Rubino, Andrew M., to Armour Pharmaceutical Company. Alcoholated basic aluminum halide compounds and method of making same. 3,692,811, 9-19-72, Cl. 260-448.00r.

Gilmer, William N.: *See—*
McCoy, Drew E.; Gilmer, William N.; and Johnston, Edward C., 3,692,668.

Gilmore, Arnold L. Nut splitting tool. 3,660,897, 5-9-72, Cl. 30-184.

Gilmore, Chace D. Cutter and valve disc for reciprocating doughnut and cruller formers. 3,695,802, 10-3-72, Cl. 425-287.000.

Gilmore Industries, Inc.: *See—*
Danko, Donald M.; and Svarovsky, James E., 3,664,179.

Gilmore, John G.: *See—*
Lemery, Raymond E.; and Gilmore, John G., 3,682,561.

Gilmore, John W. Bag lock assembly. 3,671,066, 6-20-72, Cl. 292-228.000.

Gilmore, Samuel E.: *See—*

Koomey, Paul C.; De Vries, Douwe; and Gilmore, Samuel E., 3,701,549.
Gilmore, Thomas P.: *See—*
Thiele, Tom N.; Gerlach, Lester O.; and Gilmore, Thomas P., 3,671,746.
Gilmore, Thomas P., to Allis-Chalmers Manufacturing Company. Power factor relay. 3,701,013, 10-24-72, Cl. 324-83.00d.
Gilmore, W. Franklin: *See—*
Klayman, Daniel L.; and Gilmore, W. Franklin, 3,655,715.
Gilmore, William J., to American Chain & Cable Company, Inc. Cable control retraction-lockup device. 3,653,277, 4-4-72, Cl. 74-502.
Gilmore, William J., to American Chain & Cable Company, Inc. Interlocked multi-wire member. 3,667,206, 6-6-72, Cl. 57-139.
Gilmore, William J., to American Chain & Cable Company, Inc. Winding apparatus and method. 3,672,142, 6-27-72, Cl. 57-17.000.
Gilmour, A. Scott, to Technomedic Corporation. Methods and means for determining liquid level in a container. 3,696,675, 10-10-72, Cl. 73-295.00.
Gilmour, Alexander S., Jr.: *See—*
Clark, Richard J., Jr.; Veron, Harry; Gilmour, Alexander S., Jr.; and Lockwood, David L., 3,696,264.
Gilmour, George A.: *See—*
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Gilmour, Hugh S. A.: *See—*
Hendess, Raymond W.; and Gilmour, Hugh S. A., 3,647,452.
Gilmour Manufacturing Company; division of Smith, R. M., Inc.: *See—*
Gilmour, Robert A., 3,674,138.
Gilmour, Richard C.; Kaitz, Vincent A.; and Lemberger, Adolph W., to Budd Company, The. Die unloader. 3,705,525, 12-12-72, Cl. 83-112.000.
Gilmour, Robert A., to Gilmour Manufacturing Company; division of Smith, R. M., Inc. Carded nozzle package. 3,674,138, 7-4-72, Cl. 206-80.00r.
Gilmoure, Harold J., to Sales Promotion Products, Inc. Banner mounting device. 3,675,356, 7-11-72, Cl. 40-145.000.
Gilpin, James Wayne: *See—*
Harrison, James Reneau; and Gilpin, James Wayne, 3,635,683.
Gilpin, Jo Ann: *See—*
Frevel, Ludo K.; and Gilpin, Jo Ann, 3,642,858.
Gilsdorf, Richard C., to Bell & Howell Company. Yieldable electrical plug. 3,678,440, 7-18-72, Cl. 339-61.00r.
Gilson Bros. Co.: *See—*
Enters, Edward W.; Price, Warren H.; Davies, John W., III; and Hochwitz, Lynn E., 3,678,770.
Price, Warren H., 3,649,828.
Gilson, Goldie M.: *See—*
Gilson, Ronald J., Jr.; and Gilson, Goldie M., 3,662,480.
Gilson, Ian T.; Troscinski, Edwin S.; Curtis, Thomas C.; and Watson, Robert G., to Nalco Chemical Company. Process for inhibiting corrosion of metallic surfaces with cooling water containing phenol-aldehyde resins. 3,687,610, 8-29-72, Cl. 21-2.700.
Gilson, James I.: *See—*
Gibson, Fred D., Jr.; Rhees, Raymond C.; Gilson, James I.; and Halker, Bruce B., 3,706,646.
Gilson, James R.: *See—*
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Gilson, Richard E.: *See—*
Martinson, Lawrence E.; Rauner, Frederick J.; and Gilson, Richard E., 3,707,373.
Gilson, Richard E.; and Rauner, Frederick J., to Eastman Kodak Company. Dyed photoresist compositions. 3,647,447, 3-7-72, Cl. 96-35.1.
Gilson, Robert E.: *See—*
Gilson, Werren E.; and Gilson, Robert E., 3,664,593.
Gilson, Ronald J., Jr.; and Gilson, Goldie M. Ski ticket holder. 3,662,480, 5-16-72, Cl. 40-20.00r.
Gilson, Russell A.; Kiss, William F.; and Organic, Vincent J., to United States of America, Army. Switching circuit. 3,656,002, 4-11-72, Cl. 307-235.
Gilson, Russell A., to United States of America, Army. Voltage controlled hybrid attenuator. 3,673,492, 6-27-72, Cl. 323-74.000.
Gilson, Warren E. Bottle stopper assembly. 3,632,006, 1-4-72, Cl. 215-55.
Gilson, Werren E.; and Gilson, Robert E. Gel fractionator. 3,664,593, 5-23-72, Cl. 241-60.
Giltner, Benedict Clare: *See—*
Schroeder, Duane Arthur; Weiss, Alvin Dennis; and Giltner, Benedict Clare, 3,673,117.
Giltrow, Jeremy Peter; Kinner, George Henry; and Lancaster, John Keith, to National Research Development Corporation. Carbon fibre filled composite materials. 3,674,689, 7-4-72, Cl. 252-12.400.
Giltzow, James Hunter, to Aqua Meter Instrument Corporation. Transparent grid for compass. 3,690,014, 9-12-72, Cl. 33-223.000.
Gilvar, Martin, to Morgan Construction Company. Coil compacting and strapping apparatus. 3,633,492, 1-11-72, Cl. 100-3.
Gilvar, Martin; Conlon, Charles E.; and Lleger, Alfred R., to Morgan Construction Company. Coiling apparatus. 3,669,377, 6-13-72, Cl. 242-82.
Gimbel, Frederick M.: *See—*
Acre, Thomas R.; Gimbel, Frederick M.; Ramachandran, Sundaresan; and Beck, Thomas F., 3,645,520.
Gimbel, William T.: *See—*
Larson, Carl B.; and Gimbel, William T., 3,675,801.
Gimbert, Leon M. Preferred customer communication system. 3,694,584, 9-26-72, Cl. 179-18.00d.
Gimda Inc.: *See—*
Wilson, Leslie Peter Stuart, 3,659,364.
Gimenez, German Artigas, to Saint-Gobain. Process for continuously incorporating modifiers into molten glass. 3,656,928, 4-18-72, Cl. 65-121.
Gimigliano, Joseph Paul. Vacuum vapor coating with metals of high vapor pressure. 3,637,421, 1-25-72, Cl. 117-107.
Gimler, John R.; Jurman, Stephen E.; and Schnettler, Robert W., to Hercules Incorporated. Diffusion timing mechanism. 3,662,127, 5-9-72, Cl. 200-34.
Giner, Jose D.; and Moser, James R., to United Aircraft Corporation. Electrochemical cell with platinum-ruthenium electrode and method of using with ammonia. 3,650,838, 3-21-72, Cl. 136-86.
Gineste, Robert Maurice, to Appareils de Precision et de Controle 'APC'. Control installation providing for smooth transfer between digital and analog controls. 3,648,032, 3-7-72, Cl. 235-150.5.
Ginet, Bernard: *See—*
Berthoux, Jean; and Ginet, Bernard, 3,646,125.
Ging, Dieter: *See—*
Preininger, Erich; and Ging, Dieter, 3,669,896.
Gingell, Michael John: *See—*
Ralph Frank; and Gingell, Michael John, 3,649,922.
Ginger, Leonard George; and Mather, Adaline Nicoles, to Baxter Laboratories, Inc. Streptokinase chemically bonded to a carbohydrate matrix. 3,639,213, 2-1-72, Cl. 195-63.
Gingold, Jerald S.: *See—*
Franklin, Denis; Gingold, Jerald S.; Oxenham, Ronald B.; and Rogers, Raymond E., 3,680,084.
Gingras, William P.; and Van Der Linden, Roy E., to Recognition Equipment Incorporated, mesne. Document reader transport comprising a positioning guide which includes a track of magnetic material. 3,659,110, 4-25-72, Cl. 250-219.
Gingrich, John A., to Dover Corporation (Canada) Limited. Motor speed control. 3,706,017, 12-12-72, Cl. 318-146.000.
Ginhoux, Roland: *See—*
Blanc de la Naulte, Philippe; and Ginhoux, Roland, 3,673,030.
Ginsberg, Arthur; and Hirata, Atsumu, to Royal London, Ltd. Movable support. 3,643,375, 2-22-72, Cl. 46-208.
Ginsberg, Benjamin, to Ginsberg, I., & Sons, Inc. Clip member. 3,680,177, 8-1-72, Cl. 24-73.0pc.
Ginsberg, Guenter A.; Pfleger, Robert K.; and Savage, Harry A., to Mec-O-Matic, The. Pump. 3,680,985, 8-1-72, Cl. 417-502.000.
Ginsberg, Heinz: *See—*
Roeder, Georg; and Ginsberg, Heinz, 3,638,864.
Ginsberg, Howard S., to Westinghouse Electric Corporation. Bias sensing gate driver circuitry. 3,644,753, 2-22-72, Cl. 307-252.
Ginsberg, I., & Sons, Inc.: *See—*
Ginsberg, Benjamin, 3,680,177.
Ginsburgh, Irwin; and Runes, Eugene, to Standard Oil Company (Indiana). Automatic fueling system for automobiles. 3,642,036, 2-15-72, Cl. 141-94.
Ginsig, Robert, to Syntex Corporation. Process for preparing equilenin compounds. 3,647,831, 3-7-72, Cl. 260-397.45.
Ginter Corporation: *See—*
Ginter, James Lyell, 3,651,641.
Ginter, Earle F.: *See—*
Davis, Francis E., Jr.; Derr, Walter R.; and Ginter, Earle F., 3,661,768.
Ginter, James Lyell, to Ginter Corporation. Engine system and thermogenerator therefor. 3,651,641, 3-28-72, Cl. 60-39.26.
Ginter, Thomas O.: *See—*
Nowak, Robert M.; and Ginter, Thomas O., 3,674,893.
Gintert, Dean W.: *See—*
Prange, Bernard H.; and Gintert, Dean W., 3,638,564.
Ginther, Gary D., to Clyde Corporation. Vacuum-actuated transfer device and assembly apparatus. 3,695,461, 10-3-72, Cl. 214-1.0bt.
Gintz, Francis Paul: *See—*
Fox, David Brian; and Gintz, Francis Paul, 3,632,542.
Ginzburg, Samuil Borisovich: *See—*
Marichev, Vladimir Petrovich; Slepian, Viktor Iosifovich; Stetsjuk, Nikolai Arsentievich; and Ginzburg, Samuil Borisovich, 3,684,245.
Gioia, Gaspare L.; Switzer, Norris H.; and Willerton, John K., to Omnionics, Inc. Hydraulic mechanism. 3,672,608, 6-27-72, Cl. 244-43.000.
Gioia, Norman F.: *See—*
Beck, Fred R.; Fanella, Robert J.; and Gioia, Norman F., 3,640,483.

Giolito, Silvio L.; and Mirviss, Stanley B., to Stauffer Chemical Company. Triaryl phosphate functional fluids. 3,677,948, 7-18-72, Cl. 252-78.000.

Giolito, Silvio Louis, to Stauffer Chemical Company. Styrenated triaryl phosphate functional fluids. 3,674,697, 7-4-72, Cl. 252-78.000.

Giolitti, Nicolo, to Olivetti, Ing. C., & C., S.p.A. Numerical data transfer device. 3,674,201, 7-4-72, Cl. 235-61.0pc.

Giolitti, Nicolo; and Daly, Dante, to Olivetti, Ing. C., & C., S.p.A. Calculating machine. 3,674,202, 7-4-72, Cl. 235-61.0pb.

Giombini, Giuseppe: *See—*
Natali, Remigio; and Giombini, Giuseppe, 3,687,853.

Giommoni, Giorgio. Process for preparing 1-methyl-2,3,5,6-tetrahydro-5-semicarbazido-6-hydroxy-indole-3-sulphonic acid and alkali metal salts thereof. 3,661,931, 5-9-72, Cl. 260-326.11.

Gion, Leon, to Compagnie Generale d'Electro-Ceramique. Aluminous ceramic compositions with TiO_2 MnO_2 flux. 3,686,007, 8-22-72, Cl. 106-46.000.

Gionet, Edmond R.: *See—*
Arida, Louis K.; Gionet, Edmond R.; and Gunlock, Donald E., 3,656,807.

Gionet, Edmond R.; and Hull, Neil A., to General Motors Corporation. Closure installation. 3,643,755, 2-22-72, Cl. 180-69.

Gionet, Edmond R.; and Hull, Neil A., to General Motors Corporation. Hood latch assembly. 3,695,659, 10-3-72, Cl. 292-216.000.

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Giordan, Artur: *See—*
Gabler, Friedrich; and Giordan, Artur, 3,667,628.

Giordano, Annie Sue: *See—*
Hewitt, Gordon Trent; and Giordano, Annie Sue, 3,676,199.
Hewitt, Gordon Trent; and Giordano, Annie Sue, 3,696,034.

Giordano, Anthony J.: *See—*
Jacoby, Ian H.; Giordano, Anthony J.; and Fioretti, Warren H., 3,648,240.

Giordano, Louis. Resilient connector. 3,703,194, 11-21-72, Cl. 138-109.000.

Giordano, Nicola: *See—*
Caporali, Giorgio; Ferlazzo, Natale; and Giordano, Nicola, 3,691,224.

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Giorgi, Angelo L.; and Szklarz, Eugene G., to United States of America, Atomic Energy Commission. High-transition-temperature superconductors in the Nb-Al-Ge system. 3,694,274, 9-26-72, Cl. 148-32.000.

Giorgi, Jean Claude; and Windal, Georges, to Fives Lille-Cail. Crystallization installation with control system. 3,680,621, 8-1-72, Cl. 159-44.000.

Giorgi, Jean-Claude: *See—*
Dambrine, Francis; Giorgi, Jean-Claude; and De Cremoux, Jacques, 3,687,636.

Giorgi, Tiziano A.: *See—*
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Giorgianni, Edward J.: *See—*
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Giori, Gaultiero, to De La Rue Giori S.A. Devices for cleaning wiping cylinders in a printing apparatus. 3,656,431, 4-18-72, Cl. 101-425.000.

Giori, Gualtiero, to De La Rue Giori S.A. Method of making engraved printing plates. 3,660,252, 5-2-72, Cl. 204-17.

Giori, Gualtiero, to De La Rue Giori SA. Pressure cylinder for direct plate printing machines. 3,691,949, 9-19-72, Cl. 101-216.000.

Gioria, Jean M.: *See—*
Zuntini, Franco; Gioria, Jean M.; and Foulke, Donald Gardner, 3,637,474.

Giovanni, Sesto S.: *See—*
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Gipe, Harry F., to Scott Paper Company. Dry planographic plates and methods, production and use. 3,677,178, 7-18-72, Cl. 101-450.000.

Gipe, Harry Frank, to Scott Paper Company. Plate for dry planography and method of making same. 3,632,375, 1-4-72, Cl. 117-34.

Gipperich, Karl, to Schloemann Aktiengesellschaft. Apparatus for transporting castings from continuous casting machines. 3,631,959, 1-4-72, Cl. 198-20.

Gipperich, Karl; and Sippel, Egon, to Schloemann Aktiengesellschaft. Cooling bed for billets. 3,648,827, 3-14-72, Cl. 198-219.

Giraitis, Albert P.: *See—*
Kobetz, Paul; Becker, Warren E.; and Giraitis, Albert P., 3,705,051.
Thomas, Wilford H.; Kobetz, Paul; and Giraitis, Albert P., 3,661,952.

Giraldi, Pier Nicola; and Mariotti, Vittorio, to Erba, Carlo, S.p.A. Therapeutic treatment of Partinson's disease. 3,636,223, 1-18-72, Cl. 424-267.

Giralt, Georges: *See—*
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Girard, Alfred L.: *See—*
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Girard, Andre J., to Office National d'Etudes et de Recherches Aerospatiales. Fourier transform optical object analyzer. 3,636,367, 1-18-72, Cl. 250-237.

Girard, Andre J.; and Botineau, Jean, to Office National d'Etudes et de Recherches Aerospatiales (O.N.E.R.A.). Spectrometric instrument with transposition of ray paths. 3,639,062, 2-1-72, Cl. 356-97.

Girard, Andre J., to Office National d'Etudes de Recherches Aerospatiales. Interferometric device. 3,684,379, 8-15-72, Cl. 356-106.00s.

Girard, Christian F.; and Derouin, Gerald J., to Canadian International Paper Company. Water absorption test method. 3,640,125, 2-8-72, Cl. 73-73.

Girard, Donald A. Tube clamp. 3,697,027, 10-10-72, Cl. 248-68.0cb.

Girard, Herbert A. Core transfer process. 3,681,007, 8-1-72, Cl. 8-155.000.

Girard, Jean Rene Marie, to Orthotron. Flashing electric lamp. 3,673,462, 6-27-72, Cl. 315-200.00a.

Girard, Laurent H.; Hockmeyer, Clive E.; and Ouellette, Marcel C., to American Velcro, Inc. Method of making separable fastening devices. 3,643,316, 2-22-72, Cl. 29-400.

Girard, Peter F.: *See—*
Ryan, T. Claude; and Girard, Peter F., 3,637,168.

Girard, Peter F.; and Peterson, John M., to Teledyne Ryan Aeronautical Company. Mass transportation system. 3,675,582, 7-11-72, Cl. 104-23.00r.

Girard, Peter F., to Teledyne Ryan Aeronautical Company. Drone aircraft with telescopic fuselage. 3,703,998, 11-28-72, Cl. 244-13.000.

Girard, Pierre: *See—*
Colardelle, Joel Serge; Girard, Pierre; and Henri, Claude Paul, 3,689,710.

Girard, Pierre, to Manufacture des Montres Rolex S.A. Clock with digital display. 3,691,755, 9-19-72, Cl. 58-50.00r.

Girard, Pierre L.: *See—*
Gasser, Francois W.; and Girard, Pierre L., 3,673,790.

Girard, Rene Fernand Victor, to Societe Industrielle Honeywell Bull. Apparatus for the electrolytic treatment of wires. 3,637,466, 1-25-72, Cl. 204-1.

Girard, Rene Fernand Victor; and LeGuillerm, Jacques, to Societe Industrielle Honeywell Bull. Process and apparatus for the orientation of the stable direction of magnetization of a magnetic layer carried by a cylindrical support. 3,644,857, 2-22-72, Cl. 35-209.

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Girard, Robert R.: *See—*
Shipley, Gerald E.; and Girard, Robert R., 3,638,428.

Girard, Roland T., to General Electric Company. Enameled metal substrates and method of forming. 3,639,164, 2-1-72, Cl. 117-222.

Girard, Roland T., to General Electric Company. Method of electrodepositing vitreous coatings atop a multiapertured substrate. 3,676,314, 7-11-72, Cl. 204-181.

Girard, Roland T.; and Rice, George A., to General Electric Company. Protective coating to inhibit oxidation and/or carburization of metallic surfaces. 3,677,796, 7-18-72, Cl. 117-70.00a.

Girard, Roland T.; and Rice, George A., to General Electric Company. Capacitor encapsulant and method of forming. 3,703,390, 11-21-72, Cl. 106-54.000.

Girard-Perregaux S.A.: *See—*
Vuffray, Georges C., 3,652,884.

Girardier, Jean-Pierre, to Etablissements Pierre Mengin. Shearing pump. 3,692,422, 9-19-72, Cl. 415-121.00b.

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Glaser, David, to Burroughs Corporation. Electrooptical display system including optical encoding means. 3,689,910, 9-5-72, Cl. 340-324.00r.
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Glaser, David, to Burroughs Corporation. Display panel having gas-filled cells utilizing phosphor materials. 3,701,916, 10-31-72, Cl. 313-108.00b.
Glaser, David, to Burroughs Corporation. System for operating a display panel. 3,701,924, 10-31-72, Cl. 315-84.600.
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Glasgow, David Gerald; and Follett, Archie E., to Monsanto Research Corporation. Process for preparing 2-oxazolidone polymers. 3,702,839, 11-14-72, Cl. 260-77.5ab.
Glasgow, Horack K., 35% to Faibisch, Frances M., 35% to Glasgow, Sandra, 10% to Pomerantz, Marilyn and 10% to Glasgow, Norman. Disposable diaper of improved absorbency. 3,636,951, 1-25-72, Cl. 128-285.
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Glasow, Gunthard; Grosse, Klaus; Hykel, Knut; Schleifer, Werner; Karste, Eberhard; and Kliehe, Helmut, to Veb Wtz fur Bekleidungstechnik. Method of and apparatus for folding, sewing and conveying sheet materials. 3,696,766, 10-10-72, Cl. 112-121.110.
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Glasser, George; Sjonvall, Ragnar Edward; and Kaplow, Milton, to General Foods Corporation. Shelf stable tomato soup concentrate. 3,676,154, 7-11-72, Cl. 99-124.000.

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Glenn, Joseph G. Adjustable pressure IPPB ventilator. 3,653,379, 4-4-72, Cl. 128-145.6.

Glenn, Robert: *See—*
Barough, Victor; Glenn, Robert; and Rose, Louis, 3,669,019.
Barouh, Victor; and Glenn, Robert, 3,704,150.
Schwartzman, Gilbert; and Glenn, Robert, 3,680,968.

Glenn, Robert. Dripless brush applicator construction. 3,684,387, 8-172, Cl. 401-122.000.

Glenn, William E., Jr., to General Electric Company. Method for making a composite back projection screen. 3,672,894, 6-27-72, Cl. 96-38.300.

Glenn, William Ellis, to Columbia Broadcasting System, Inc. Electron gun with anode segments for beam position detection. 3,694,687, 9-26-72, Cl. 313-78.000.

Glenn, William G., to Cybertek, Inc. Methods and apparatus for obtaining the quantitation and the concentrations of precipitin reactions and participating molecules in biological fluids. 3,692,486, 9-19-72, Cl. 23-230.00b.

Glenn, William H.: *See—*
De Maria, Anthony J.; and Glenn, William H., 3,636,474.

Glenn, William H., to United Aircraft Corporation. Adjustable nonlinearly transmissive optical device. 3,700,307, 10-24-72, Cl. 350-157.000.

Glennon, Richard F.: *See—*
LeMay, William E.; and Glennon, Richard F., 3,687,702.

Glesner, William K.: *See—*
Tomalia, Donald A.; and Glesner, William K., 3,673,274.

Glew, David N.; and Clarke, Ewart C., to Dow Chemical Company, The. Deuterium sulfide separation and its conversion to deuterium oxide. 3,690,829, 9-12-72, Cl. 423-561.000.

Glew, Derek Aubrey: *See—*
Goodard, John; Wilson, John Francis; and Glew, Derek Aubrey, 3,696,014.

Gley, Paul R., to Rex Chainbelt Inc. Push button snap latch. 3,633,953, 1-11-72, Cl. 292-166.

Gley, Paul R., to Rex Chainbelt Inc. Touch latch. 3,694,015, 9-26-72, Cl. 292-80.000.

Gley, Paul R., to Rex Chainbelt Inc. Container latch system. 3,704,907, 12-5-72, Cl. 292-257.000.

Glick, Harold. Concealed collar wing fasteners. 3,651,519, 3-28-72, Cl. 2-132.

Glick, William L.: *See—*
Bowden, James E.; and Glick, William L., 3,701,079.

Glickman, Arnold. Method of making welt shoes. 3,680,162, 8-1-72, Cl. 12-142.00d.

Glickman, Irving: *See—*
Turesky, Samuel; and Glickman, Irving, 3,639,571.

Glickman, Joel I.: *See—*
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Cutler, Joel L.; and Glickman, Joel L., 3,641,425.

Glickman, Leon A., to Keystone Bay State Industries, Inc. Control system. 3,635,246, 1-18-72, Cl. 137-608.

Glickman, Richard B., to Berkey Colortran Mfg., Inc. High efficiency adjustable luminaire. 3,643,079, 2-15-72, Cl. 240-3.

Glickman, Richard B.; and Hartz, George R., to Berkey/Colortran, Inc. Extensible leg structure for tripod or the like. 3,697,031, 10-10-72, Cl. 248-171.000.

Glicksman, Martin; Farkas, Elizabeth H.; and Carter, Sadie,, to General Foods Corporation. Low calorie yeast leavened baked products. 3,676,150, 7-11-72, Cl. 99-90.00r.

Glicksman, Martin; Klose, Robert E.; and Kirkeby, Richard D. Method of making an extruded expanded protein product. 3,684,521, 8-15-72, Cl. 99-17.000.

Glidden Electric Corporation, The: *See—*
Glidden, Roger C., 3,691,593.

Glidden, Roger C. Card file address locator and code checker. 3,634,624, 1-11-72, Cl. 179-2.

Glidden, Roger C. Bandpass amplifier circuit. 3,649,760, 3-14-72, Cl. 179-1.

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Karpman, David Bentsionovich; Boris, Volkovich; Konovalov, Spivak Leonidovich; Bednarchuk, Jury Vladimirovich; Chigirinsky, Alexander Abramovich; Ugrjumov, Leonid Vasilievich; Glider, Evgeny Khaimovich; and Gradov, Oleg Borisovich, 3,639,794.
Konovalov, Boris Leonidovich; Kildishev, Vasily Semenovich; Kaplunov, Vadim Borisovich; Tokarev, Vladimir Ivanovich; Spivak, Boris Volkovich; Byaly, Boris Ilich; Chigirinsky, Alexandr Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman,David Bentsionovich; Kariashevsky, Pavel Yakovlevich; and Cheremisov, Ivan Yakovlevich, 3,683,220.
Konovalov, Boris Leonidovich; Spivak, Boris Volkovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kildishev, Vasily Semenovich; and Stanislavsky, Lazar Yankelevich, 3,683,221.
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Gliniecki, Vern L.; and Flammang, Kenneth E., to Dow Chemical Company, The. Method of making a laminate comprised of polyvinyl chloride. 3,634,165, 1-11-72, Cl. 156-244.

Glinski, Vincent J.; and Murphy, Bernard T., to Bell Telephone Laboratories, Incorporated. Method of forming monolithic semiconductor integrated circuit devices. 3,653,988, 4-4-72, Cl. 148-175.

Glinski, Vincent J., to Bell Telephone Laboratories, Incorporated. Monolithic integrated circuit structures and methods of making same. 3,701,198, 10-31-72, Cl. 29-578.000.

Glintz, Georgia E. Hair dryer with removable lay on resilient cushion. 3,641,682, 2-15-72, Cl. 34-99.

Glissendorf, Wilmer E., to Advanced Management Engineering & Research Co. Weight-indicating trailer coupler. 3,700,053, 10-24-72, Cl. 177-136.000.

Glithro, Phillip, to Proctor, E. W., Limited. Frying ranges. 3,641,925, 2-15-72, Cl. 99-416.

Gloag, Elizabeth A.: *See—*
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Global Marine Inc.: *See—*
Blurton, Leon C.; and Cina, Saverio J., 3,693,729.
Knorr, Gordon Dayton, 3,688,850.
Koot, Nicholas L., 3,701,387.
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Globe Illumination Company: *See—*
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Taylor, Jack G.; and Gallo, Mario S., 3,681,596.

Globe Manufacturing Company: *See—*
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Globe Rubber Products Corporation: *See—*
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Globe Ticket Company: *See—*
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Globe Tool and Engineering Company, The: *See—*
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Globe Valve Corporation: *See—*
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Globe-Union, Inc.: *See—*
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Fiandt, Ronald Maynard, 3,686,056.
Giesfeldt, William Otto; and Pinnow, Roy Lee, 3,678,569.
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Halsall, Vincent Michael; and Cosme, Peter Anthony, 3,673,302.
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Orlando, Daniel; and Smith, George Paul, 3,687,734.
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Robertson, Mark Christian; and Bishop, Donald Lloyd, 3,693,252.
Vetor, Earl Leon; and Faust, Helmuth, 3,692,587.

Globus, Anatol; Duplex, Paul; and Vautier, Roger, to Agence Nationale de Valorisation de la Recherche (ANVAR). Process and mill for grinding pulverulent materials, and the materials thus ground. 3,674,218, 7-4-72, Cl. 241-46.060.

Globus Maskinfabrik A/S: *See—*
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Glock, Erwin, to Licentia Patent-Verwaltungs-G.m.b.H. Active balanced modulator circuit. 3,636,478, 1-18-72, Cl. 332-43.

Glockner, Hans: *See—*
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Glockner, Hans; Meier, Ernst; and Puschel, Walter, to Agfa-Gevaert Aktiengesellschaft. Silver halide emulsion containing purple coupler for color photography and process of making the same. 3,677,764, 7-18-72, Cl. 96-100.000.

Glockner, Peter W.: *See—*
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Bauer, Ronald S.; Chung, Harold; Glockner, Peter W.; Keim, Wilhelm; and Van Zwet, Henry, 3,635,937.
Bauer, Ronald S.; Chung, Harold; Glockner, Peter W.; Keim, Wilhelm; and Van Zwet, Henry, 3,644,563.
Bauer, Ronald S.; Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., 3,647,915.

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Gloeckler, Fred A., to Star Sprinkler Corporation of Florida. Flush type sprinkler. 3,633,676, 1-11-72, Cl. 169-40.

Gloekler, Bernard: *See—*
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Gloess, Paul F. Key board printer. 3,679,036, 7-25-72, Cl. 197-18.000.

Gloess, Paul F. Keyboard printer for typewriting and recording characters on a magnetic tape. 3,681,776, 8-1-72, Cl. 346-74.00m.

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Gloge, Detlef Christoph, to Bell Telephone Laboratories, Incorporated. Optical autocorrelator for autocorrelating picosecond optical pulses. 3,675,985, 7-11-72, Cl. 350-157.000.

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Glogg, Willy, A.G.: *See—*
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Glolok Co., Ltd.: *See—*
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Glombitza, Klaus: *See—*
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Gloor, Urs; Ruegg, Rudolf; and Ulrich, Schwieter, to Hoffmann-La Roche Inc. Benzohydroquinones. 3,670,031, 6-13-72, Cl. 260-613.00d.

Gloridso, Ray: *See—*
Kartasuk, Ray; and Gloridso, Ray, 3,669,440.

Glorioso, Charles A., to Teletype Corporation. Precision reference point detector. 3,689,163, 9-5-72, Cl. 356-172.000.

Glorioso, Robert M.; and Brooks, H Craig. Electronic frequency tuning mechanism. 3,638,113, 1-25-72, Cl. 324-78.

Glory Kogyo Kabushiki Kaisha: *See—*
Hatanaka, Yoshihiro; Abe, Masahiro; Oshima, Takeo; and Akioka, Toshio, 3,652,081.
Shigemori, Hideto; and Yamamoto, Akio, 3,652,833.
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Glos, Gladys M.: *See—*
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Gloskey, Carl R., to M & T Chemicals Inc. Foam forming process using as a gel catalyst a mixture of 2 ethyl hexoic acid and a stunnous compound. 3,681,272, 8-1-72, Cl. 260-2.5ac.

Gloskey, Carl Robert, to M & T Chemicals Inc. Non-toxic stabilized polyvinyl chloride products and stabilizer compositions. 3,640,947, 2-8-72, Cl. 260-45.75.

Gloskey, Carl Robert, to M & T Chemicals Inc. Process for preparing organotin mercaptides. 3,657,294, 4-18-72, Cl. 260-429.7.

Glosten, Lawrence R. Convertible-float floating platform. 3,673,973, 7-4-72, Cl. 114-.50d.

Glotin, Joseph M. H.: *See—*
Alric, Andre A. L.; Porte, Gilbert R. A.; Glotin, Joseph M. H.; Higounenq, Francis J.; and Boussin, Serge P., 3,703,675.

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Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.

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Glover, Brian: *See—*
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Glover, Cecil C. Golf club with adjustable weighting plugs. 3,652,094, 3-28-72, Cl. 273-171.

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Glover, Clinton G., to Potlatch Forests, Inc. Fence. 3,652,060, 3-28-72, Cl. 256-19.

Glover, Eugene C., to Mentor Corporation. Stimulator apparatus for muscular organs with external transmitter and implantable receiver. 3,662,758, 5-16-72, Cl. 128-419.

Glover, James L.: *See—*
Stair, Virgil H.; and Glover, James L., 3,633,717.

Glover, John B., to Hepworth Iron Company Limited, The. Pipe couplings. 3,645,547, 2-29-72, Cl. 277-207.

Glover, Peter David; Forshaw, Richard; and Steele, William Henry, to Victa Limited. Carburettor throttle control assembly. 3,640,253, 2-8-72, Cl. 123-102.

Glover, Peter David; Forshaw, Richard; and Steele, William Henry, to Victa Limited. Engine governors. 3,650,252, 3-21-72, Cl. 123-103.

Glover, William T.; and Kelly, Eugene W., to Computone Systems Incorporated. Low cost portable terminal device for electronic data processing. 3,647,972, 3-7-72, Cl. 179-2.

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Glowzewski, Thomas L.; and Cutler, Hymie, to Bendix Corporation, The. Adaptive numberical control system for a machine tool. 3,665,493, 5-23-72, Cl. 235-151.110.

Gloyd, Harry: *See—*
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Gluchowski, Alan, to American Flange & Manufacturing Co., Inc. Closure flange feed apparatus. 3,683,482, 8-15-72, Cl. 29-208.00b.

Gluck, Julius; and Lara, Raul, to Sperry Rand Corporation. Capacitive key. 3,696,908, 10-10-72, Cl. 197-98.000.

Gluckin, Gerald W.; and Boser, Ronald J. Stretchable strap or the like. 3,653,075, 4-4-72, Cl. 2-338.

Gluckin, Gerald W. Stretch fabric watchband. 3,706,404, 12-19-72, Cl. 224-4.00e.

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Glucoft, Harold; and Westerfield, James. Dial indicator holder. 3,664,029, 5-23-72, Cl. 33-180.

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Glunk, Josef; and Gnadler, Heinz. Mowing machine. 3,656,286, 4-18-72, Cl. 56-295.

Glunk, Josef; and Gnadler, Heinz, to Maschinenfabrik Fahr Aktiengesellschaft. Swinging blade arrangement for mower assembly. 3,662,529, 5-16-72, Cl. 56-295.

Glunt, Perry G.: *See—*
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Gluntz, Claude; Meyer, Pierre; and Peyrot, Jean, to Compagnie Francaise de Raffinage. Process for the eliminating of compounds with acid function dissolved in a liquid medium. 3,640,982, 2-8-72, Cl. 260-88.2.

Gluntz, Glenn Harlan, to AMP Incorporated. Post connector and assembly. 3,649,950, 3-14-72, Cl. 339-17.

Gluntz, Glenn Harlan, to AMP Incorporated. Electrical connectors. 3,659,243, 4-25-72, Cl. 339-192.

Gluskin, Richard S., to United States of America, Army. Pneumatic level sensing device. 3,666,263, 5-30-72, Cl. 271-56.000.

Gluszek, Rudolph J. Detachable wrecking device. 3,658,384, 4-25-72, Cl. 299-37.000.

Gluth, Joseph F.: *See—*
Bassett, Ronald M.; and Gluth, Joseph F., 3,694,591.

Gluth, Norman P.; and Houghton, Richard A., to LTV Electrosystems, Inc. Digital speech signal synthesizer. 3,697,699, 10-10-72, Cl. 179-1.0sa.

Gluth, Norman P., to E-System, Inc. Noise signal generator for a digital speech synthesizer. 3,703,609, 11-21-72, Cl. 179-1.0sa.

Gluz, Harry: *See—*
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Glyco Chemicals, Inc.: *See—*
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Glyco-Metall-Werke Daelen & Loos GmbH: *See—*
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Glynn, Emmett P.; and Hsu, Howard L., to Liquid Carbonic Corporation. CO_2 refrigeration systems. 3,695,056, 10-3-72, Cl. 62-168.000.

Glynn, Michael Harvey: *See—*
Cheffers, Stanley John; and Glynn, Michael Harvey, 3,669,109.

Glyptis, Nicholas D. Electric soldering gun and tip therefor. 3,651,306, 3-21-72, Cl. 219-233.

Glyptis, Nicholas D., to Gale Industries, Inc. Method of imparting electrical conductivity to an amorphous substrate by ion implantation, and the product thereof. 3,682,700, 8-8-72, Cl. 117-211.000.

G.M. Pfaff AG., Firma: *See—*
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Gmunder, John: *See—*
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Gmur, Dionys: *See—*
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Gnad, Gerhard: *See—*
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Gnad, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Disazo dyes having a β-(-p-hydroxyphenyl)-propionic acid or a derivative thereof as the coupling component. 3,657,218, 4-18-72, Cl. 260-175.

Gnad, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Phenyl-azo-naphthol dyes. 3,673,170, 6-27-72, Cl. 260-202.000.

Gnadler, Heinz: *See—*
Glunk, Josef; and Gnadler, Heinz, 3,656,286.
Glunk, Josef; and Gnadler, Heinz, 3,662,529.

Gnaedinger, John P.: *See—*
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Gnaedinger, Richard H., to United States of America, Interior. System for cooking fish. 3,663,719, 5-16-72, Cl. 99-7.000.

Gnaedinger, Robert J., Jr.; and Gnaedinger, John P. Method and apparatus for determining structural characteristics. 3,641,811, 2-15-72, Cl. 73-69.

Gnage, Oliver W., to Eastman Kodak Company. Magazine for photoconductive elements. 3,658,321, 4-25-72, Cl. 271-61.

Gnage, Oliver W.; and Connelly, Gordon F., to Eastman Kodak Company. Magnetic conveyor system. 3,670,868, 6-20-72, Cl. 198-41.000.

Gnage, Oliver W., to Eastman Kodak Company. Gravity-fed storage device. 3,698,602, 10-17-72, Cl. 221-225.000.

Gnagi, Alex; and Muller, Peter, to Cerberus AG. Apparatus for monitoring the conductors or lines of fire alarm installations. 3,665,461, 5-23-72, Cl. 340-409.000.

Gnavi, Aldo; and Di Bartolomeo, Giacomo, to Compagnia Italiana Westinghouse Freni E Segnali. Automatic service conduit connector devices for railway vehicle couplings. 3,633,762, 1-11-72, Cl. 213-1.3.

Gnecco, Arthur J.: *See—*
Peterson, Victor S.; and Gnecco, Arthur J., 3,696,679.

Gnesotto, Ferdinando: *See—*
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Go Corporation, Inc.: *See—*
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Go International, Inc.: *See—*
Basham, Edward R.; and Smith, William D., 3,670,566.
Shannon, John Louis; and Bashan, Edward R., 3,690,163.
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Go, Tadahiro: *See—*
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Goal Company Limited: *See—*
Taniyama, Mitsumasa, 3,665,740.

Goan, John C., to United States of America, Navy. Method for improving graphite fibers for plastic reinforcement and products thereof. 3,634,220, 1-11-72, Cl. 204-164.

Goba, Herberts K. Necktie knot-holding device. 3,654,633, 4-11-72, Cl. 2-153.

Gobble, Lawrence T.: *See—*
Choquette, Henry T.; Gobble, Lawrence T.; Studebaker, James B.; and Whittier, John D., 3,652,180.

Gobby, Alan B., to Gobby Mfg., Inc. Basket attachment for tricycle. 3,664,683, 5-23-72, Cl. 280-202.000.

Gobby Mfg., Inc.: *See—*
Gobby, Alan B., 3,664,683.

Gobel, Klaus. Facing of the roof edges in saw-tooth roofs or similar roofs. 3,686,803, 8-29-72, Cl. 52-18.000.

Gobel, Wilhelm: *See—*
Keberle, Wolfgang; and Gobel, Wilhelm, 3,637,553.
Weitzel, Hans; Dinges, Karl; Gobel, Wilhelm; and Hardt, Dietrich, 3,641,206.

Gobeli, David H., to Medtronic, Inc. Electronic demand heart pacemaker with different pacing and standby rates. 3,656,487, 4-18-72, Cl. 128-419.

Goberde, Bastiaan Cornelis: *See—*
Price, Richard Thompson; Bauer, Stuart Michael; Brownlee, John; and Goberde, Bastiaan Cornelis, 3,655,838.

Gobert, Michael R. R. Detergent. 3,640,877, 2-8-72, Cl. 252-99.

Gobillon, Yves: *See—*
Delbouille, Andre; Gobillon, Yves; and Stevens, Jacques, 3,663,660.

Goble, Ralph W., to Autometrics Co., mesne. Automatic clutch with locking means. 3,656,598, 4-18-72, Cl. 192-35.

Goble, Ralph W., to Phonocopy, Inc. Facsimile transceiver. 3,707,601, 12-26-72, Cl. 178-7.600.

Gobran, Ramsis: *See—*
Ofstead, Ronald F.; and Gobran, Ramsis, 3,702,844.

Gobran, Ramsis; Kremer, Leon V.; and Ethier, Dolores O., to Minnesota Mining and Manufacturing Company. Block copolymer compositions. 3,649,579, 3-14-72, Cl. 260-27.

Gobron, Georges; and Motillon, Marcel; deceased (by Sudan, Jacqueline; Viaud, Colette; Motillon, Jeannine; and Motillon, Michel; legal heirs). Hydrogenation catalysts comprising nickel or copper deposited on silica. 3,652,458, 3-28-72, Cl. 252-454.

Gobstein, Saul, to Ferro Corporation. Nickel salts of mixed organic anions. 3,655,708, 4-11-72, Cl. 260-439.

Goby, Daniel E.: *See—*
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Gochnauer, Marshall. Method of mounting canvas on artist's frame. 3,657,796, 4-25-72, Cl. 29-432.

Gocho, Yukisato; and Inokuchi, Takahiro, to Toko Kabushiki Kaisha. FM demodulator circuit using phase-shifting multiplier. 3,701,030, 10-24-72, Cl. 329-134.000.

Gochot, Jean. Butterfly valve. 3,666,236, 5-30-72, Cl. 251-306.000.

Goda, George: *See—*
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Godai, Tomokazu: *See—*
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Godard, Pierre, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). System for controlled charging of stand-by storage batteries that supply a load on failure of power supply to the load from power mains. 3,668,418, 6-6-72, Cl. 307-66.

Godawski, Theodore J., to Zenith Radio Corporation. Television sweep transformer. 3,665,288, 5-23-72, Cl. 321-24.000.

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Godbersen, Byron L. Float plane hoist. 3,640,403, 2-8-72, Cl. 214-1.

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Godbold, Inc.: *See—*
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Godbold, Roy Herman, to Godbold, Inc. Game feed. 3,660,104, 5-2-72, Cl. 99-4.

Goddard, David: *See—*
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Goddard Industries, Inc.: *See—*
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Goddard, Wilson B.: *See—*
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Godding, Ronald G., to British Cast Iron Research Association. Apparatus for mixing sand/resin/catalyst and blow-forming foundry cores. 3,662,812, 5-16-72, Cl. 184-193.

Godec, Maksimiljan: *See—*
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Godefroi, Erik Fred, to Janssen Pharmaceutica, N.V. 1-(2-Halobenzyloxy-1-indanyl)-imidazoles. 3,636,002, 1-18-72, Cl. 260-309.

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Godel, Albert, to Societe Anonyme Activit. Process of activation and gasification of fluidised carbonaceous materials. 3,677,727, 7-18-72, Cl. 48-206.000.
Godelaine, Jozef Guido. Process for sterile filling of collyrium flasks and the like and apparatus for carrying out said process. 3,685,248, 8-22-72, Cl. 53-37.000.
Godet, Jean, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Duct for the transfer of materials at a variable flow rate. 3,646,971, 3-7-72, Cl. 138-46.
Godfrey, Arthur William; Dorn, Peter; and Crawford, Wheeler C., to Texaco Inc. Automatic transmission fluid and method. 3,687,852, 8-29-72, Cl. 252-77.000.
Godfrey, Charles S., to Physics International Company. Rock fracturing method and apparatus for excavation. 3,695,715, 10-3-72, Cl. 299-13.000.
Godfrey, Harold E., Jr.: *See—*
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Godfrey, James P., to Sanders Associates, Inc. Methods and apparatus for generating electrical wave forms and guadraturephase trapezoidal and or simusoidal waveforms. 3,697,877, 10-10-72, Cl. 328-13.000.
Godfrey, John C.: *See—*
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Godfrey, John Montgomery, to Itek Corporation. Automatic stereoplotting apparatus. 3,663,104, 5-16-72, Cl. 356-2.
Godfrey, John N., to Susquehanna Corporation, The. Gas-generating charge. 3,636,881, 1-25-72, Cl. 102-103.
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Godfrey, Norman Bell, to Jefferson Chemical Company, Inc. Polyamine and hydrocarbon sulfonic acid accelerator combination for epoxy curing. 3,666,721, 5-30-72, Cl. 260-47.0ec.
Godfrine, Pierre: *See—*
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Godhan, Ali: *See—*
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Godin, Stig Olof; and Larsson, Karl Robert, to International Siporex Aktiebolaget. Apparatus for cutting semi-plastic bodies of cellular lightweight concrete. 3,646,643, 3-7-72, Cl. 25-112.
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Godley, Augustus P.; Fuller, Francis M.; Houk, Charles R.; Holland, Henry A. Nelson; and Gendron, George J., to Raymond International Inc. Installation of sand drains. 3,641,775, 2-15-72, Cl. 61-63.
Godmer, Laurent. Naval combat board game apparatus. 3,640,536, 2-8-72, Cl. 273-130.
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Godoy, Humbert C.; and Vogelsberg, R. Eric, to International Business Machines Corporation. Logical fault screening technique. 3,706,879, 12-19-72, Cl. 235-153.0ac.
Godshall, John L.: *See—*
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Godtfredsen, Wagn Ole: *See—*
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Frederiksen, Erling Knud; and Godtfredsen, Wagn Ole, 3,697,507.
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Godwin, Gilbert A.: *See—*
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Godwin, Gilbert A.; and Kirkman, Anthony T., to Howe Richardson Scale Company. Electrical filters for weighing system circuits. 3,643,753, 2-22-72, Cl. 177-185.
Godwin, Gilbert Allan; and Pratt, Chapin A., to Richardson, Howe, Scale Company. Electrical weighing systems with multiple incremental readouts. 3,659,665, 5-2-72, Cl. 177-1.
Godwin, Gurney L.; and Kilgore, Lee A., to Westinghouse Electric Corporation. Alternating current motor starting apparatus and method. 3,667,015, 5-30-72, Cl. 318-171.
Godwin, Guy V.; Santana, Gilbert L.; and Santana, Raymond L. Automobile body roll sander. 3,648,413, 3-14-72, Cl. 51-170.
Godwin, James B., III: *See—*
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Godwin, Robert H.: *See—*
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Goebel, Franz, to Rand Development Corporation. Method of hydrogen production. 3,650,697, 3-21-72, Cl. 23-212.
Goebel, Robert W., to Robbins & Myers, Inc. Electric motor and higher speed fan assembly. 3,670,190, 6-13-72, Cl. 310-60.000.
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Goede, Walter F., to Northrop Corporation. Inherent storage for charged particle beam scanner. 3,701,923, 10-31-72, Cl. 315-12.000.
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Goedeke, Egon: *See—*
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Goeke, Alfons, to Kieserling, Th., & Albrecht. Drawing machine for rods and tubing. 3,659,531, 5-2-72, Cl. 105-30.
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Goeldner, Richard W., to Aqua-Chem, Inc., mesne. Reverse osmosis liquid separation apparatus. 3,666,109, 5-30-72, Cl. 210-321.
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Goeller, John C., III: *See—*
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Goeller, Leonard A.: *See—*
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Goellner, Allan R., to Clark-Reliance Corporation, The. Automatic steam trap. 3,696,829, 10-10-72, Cl. 137-183.000.
Goellner, Willy J., to Paramount Textile Machinery Company. Carbide saw blade locking device. 3,656,393, 4-18-72, Cl. 83-666.
Goelz, Horst; Suter, Hubert; Fust, Juergen; and Himmele, Walter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of cyanuric acid. 3,635,968, 1-18-72, Cl. 260-248.
Goelzer, William C.; Moratelli, Patrick A., Jr.; Griffith, Albert M., III; Myers, David D.; Opitz, Herman E.; and Procopio, John J., to Kerr Glass Manufacturing Corporation. Method of coating glassware. 3,684,469, 8-15-72, Cl. 65-60.000.
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Goens, Duane N.; and Clapper, Thomas W., to Kerr-McGee Chemical Corporation. Production of sodium chlorate. 3,676,315, 7-11-72, Cl. 204-95.000.
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Goertzel, Gerald: *See—*
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Goerz, David J., Jr.; and Stephansen, Erik W., to Bechtel International Corporation. Paper making system and apparatus. 3,678,594, 7-25-72, Cl. 34-1.000.

Goeschel, Gert: *See*—
Borchmann, Joern; Fuchs, Hugo; Goeschel, Gert; Sander, Bruno; and Sperber, Heinrich, 3,689,619.
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Goeskel, Helmut, to Neckermann Versand KGaA. Loudspeaker box for a preferably dynamic loudspeaker. 3,680,658, 8-1-72, Cl. 181-31.00b.

Goessl, Gottfried: *See*—
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Goetchius, Norman E.; and Zaky, Amin Y., to Stromberg-Carlson Corporation. Telephone set identification system. 3,676,602, 7-11-72, Cl. 179-17.00a.

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Goetchius, Ronald J.: *See*—
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Goeth, Hanns: *See*—
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Goettl, Adam D. Rotor for a blower structure. 3,702,741, 11-14-72, Cl. 416-187.000.

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Goetz, Bernard, to Automobiles Peugeot and Regie Nationale des Usines Renault. Method of making friction disc variators. 3,654,692, 4-11-72, Cl. 29-558.

Goetz, Fred E.; Druzba, Perry R., Jr.; Hause, James R.; and Seeley, Gerard, to International Business Machines Corporation. Method for providing a finished surface on workpieces. 3,659,386, 5-2-72, Cl. 51-318.000.

Goetz, Frederick E.; and Hause, James R., to International Business Machines Corporation. Wafer polishing machine. 3,691,694, 9-19-72, Cl. 51-80.000.

Goetz, Frederick J.: *See*—
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Goetz, Frederick J., to Allied Chemical Corporation. Fluorescent polycarbonamides. 3,668,189, 6-6-72, Cl. 260-78.00r.

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Goetz, Frederick J., Jr., to Motorola, Inc. Mounting bracket for television picture tube. 3,651,257, 3-21-72, Cl. 178-7.8.

Goetz, George G. Light modulating deflectable membrane. 3,701,586, 10-31-72, Cl. 350-161.000.

Goetz, Lionel J.: *See*—
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Goetz, Richard W.; and Mador, Irving L., to National Distillers and Chemical Corporation. Catalyzed hydrolysis of nitriles to amides. 3,670,021, 6-13-72, Cl. 260-561.00r.

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Goetz, William G.: *See*—
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Goetze, Gerhard W.; and Boerio, Alvin H., to Westinghouse Electric Corporation. Electrom image device having target comprising porous region adjacent conductive layer and outer, denser region. 3,657,596, 4-18-72, Cl. 313-68.

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Jansen, Gunter; and Kling, Hans, 3,656,341.
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Goff, Don L.: *See*—
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Goff, Frank V.: *See*—
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Goff, James R., to Nelson, Robert T. Abrasive surface cleaning apparatus. 3,691,689, 9-19-72, Cl. 51-9.000.

Goff, Randall: *See*—
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Goff, Richard E., to Christopherson, Rollin F. Truck tire holding and inflation apparatus. 3,687,442, 8-29-72, Cl. 269-17.000.

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Goffe, Charles A.: *See*—
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Goforth, John A., Jr.: *See*—
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Gogan, James E., to Electrovert Ltd. Multi-way cable troughs. 3,680,817, 8-1-72, Cl. 248-68.000.

Gogarty, William B., to Marathon Oil Company. Flooding with micellar dispersions. 3,648,773, 3-14-72, Cl. 166-273.

Gogarty, William B.; and Bush, William P., to Marathon Oil Company. Corrosion protection for buried metallic objects. 3,687,609, 8-29-72, Cl. 21-2.500.

Goggi, Charles P.; and Goggi, Eugene S. Aquatic game and equipment therefor. 3,703,011, 11-21-72, Cl. 9-1.00a.

Goggi, Eugene S.: *See*—
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Gohe, Max: *See*—
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Gohin, Gilles M.; and Hivert, Andre R., to Office National d'Etudes et de Recherches Aerospatiales. Process for the manufacture of chrome powder. 3,658,507, 4-25-72, Cl. 75-.5.

Gohl, Helmut, to Fahrzeuge und Gerate G.m.b.H. & Co. K.G. Hand-operated snow removing tool. 3,643,356, 2-22-72, Cl. 37-53.

Goi, Mitsuhiro; Kageyama, Satoru; and Mizuno, Nobuo, to Nippon Gosei Kagaku Kogyo Kabushiki Kaisha. Method of adding a polyvinyl-alcohol shock-inhibitor to a paper coating color composition. 3,634,349, 1-11-72, Cl. 260-17.

Goiffon, Thierry; Lehmann, Hans Rudolf; and Schaidl, Hubert, to Ateliers des Charmilles S.A. Servo feed system for machine tool provided with locking mechanism. 3,695,144, 10-3-72, Cl. 91-41.000.

Goings, Harford E. Folding plastic tray. 3,638,849, 2-1-72, Cl. 229-28.

Goings, Harford E. Disposable tray. 3,647,104, 3-7-72, Cl. 220-20.

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Goings, Harford E. Under dash hot and cold drink dispenser. 3,669,314, 613-72, Cl. 222-13.00g.
Goings, Harford E. Refuse and tissue holder. 3,674,191, 7-4-72, Cl. 224-29.00r.
Goins, Charles Patrick: *See—*
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Goins, William C., Jr.; and McGlothlin, Bruce B., to Gulf Research & Development Company. Two-stage injection of acid-producing chemicals for stimulating wells. 3,707,192, 12-26-72, Cl. 166-300.000.
Goirand, Pierre, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). Aerial ropeway vehicle system. 3,662,691, 5-16-72, Cl. 104-173.
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Goksel, Mehmet Adnan, to Michigan Technological University. Feeder for high pressure autoclave. 3,669,318, 6-13-72, Cl. 222-307.000.
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Golay, Marcel J. E.; and Waite, Amory H., Jr. Method and means for the water transport of liquids. 3,698,339, 10-17-72, Cl. 114-16.00r.
Golay, Willis W. Hay covering. 3,664,070, 5-23-72, Cl. 52-4.
Golbeck, Bernard J., to Oak Electro/Netics Corporation. Switch in a button. 3,663,780, 5-16-72, Cl. 200-167.
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Gold, Nathan, to Polaroid Corporation. Laser interferometer type servo-positioning system comprising velocity control network and phase-lock network. 3,634,682, 1-11-72, Cl. 250-201.
Gold, Nathan, to Polaroid Corporation. Reflective imaging apparatus. 3,690,240, 9-12-72, Cl. 95-42.000.
Gold, Nicholas, to Polaroid Corporation. Photographic film cartridge. 3,705,542, 12-12-72, Cl. 95-19.000.
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Golda, Eugene; and Taudien, Alfred, to Polychrome Corporation. Lithographic plate developing composition and process of use thereof. 3,669,660, 6-13-72, Cl. 96-33.000.
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Goldammer, Freeland Robert; and Albrecht, Harold Denton, Jr., to RCA Corporation. Coil suspension arrangement for a cathode ray tube. 3,657,674, 4-18-72, Cl. 335-210.
Goldbach, Gunther; and Meyer, Heinz-Hermann, to Chemische Werke Huls Aktiengesellschaft. Molding compositions of polybutene-1. 3,684,760, 8-15-72, Cl. 260-31.20r.
Goldbach, Henry T.: *See—*
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Goldbeck, Leroy J.; and Van Den Elzen, Norbert L., to Kimberly-Clark Corporation. Fire retarding treatment. 3,655,422, 4-11-72, Cl. 117-46.
Goldberg, A. George, to Selig, I. I., & Sons, Ltd. Method for crushing metal turnings. 3,667,691, 6-6-72, Cl. 241-24.000.
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Goldberg, Arnold J.; and Knavish, Leonard A., to PPG Industries, Inc. Flow and edge control in vertical sheet drawing. 3,692,510, 9-19-72, Cl. 65-203.000.
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Goldberg, Gerald K., to Sperry Rand Corporation. Light modulator for producing light beam having sinusoidally varying intensity. 3,633,993, 1-11-72, Cl. 350-157.
Goldberg, Herbert E., to American Optical Corporation. Assisted cardiovascular circulation. 3,674,018, 7-4-72, Cl. 128-33.000.
Goldberg, Ira I.; Marasco, Paul M.; and Pfleger, Kenneth R., to United States of America, Army. Electronic ballistic computer circuit. 3,686,478, 8-22-72, Cl. 235-61.50e.
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Goldberg, Jurgen. Lifting anchor for precast concrete and like molded parts. 3,652,118, 3-28-72, Cl. 294-89.
Goldberg, Lawrence H., to United States of America, Army. Digital information receiver. 3,643,027, 2-15-72, Cl. 178-88.
Goldberg, Leonard. Parking field security device. 3,673,734, 7-4-72, Cl. 49-35.000.
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Goldberg, Leonard Z., to Lockheed Aircraft Corporation. Ball type flexible coupling for rigid conduits. 3,695,644, 10-3-72, Cl. 285-233.000.
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Goldberg, Norman. Light beam projection assembly for a word organized optic memory. 3,685,030, 8-15-72, Cl. 340-174.0yc.
Goldberg, Perry; and Segalman, Irwin, to United Aircraft Corporation. Wall structure for a gas turbine engine. 3,706,203, 12-19-72, Cl. 60-39.650.
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Goldberger, Max, to Catalytic Technology Corporation. Raney metal sheet material. 3,637,437, 1-25-72, Cl. 136-120.
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Golden, John R., to Gemco, Inc. System for automatically returning tape to a preselected position. 3,684,213, 8-15-72, Cl. 242-201.000.
Golden, Richard L.; and Mazzella, Gerald, to Halcon International, Inc. Boric acid recovery. 3,679,751, 7-25-72, Cl. 260-586.00b.
Golden, Roger M.; and White, Stanley A., to North American Rockwell Corporation. Digital low pass filter. 3,639,739, 2-1-72, Cl. 235-152.
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Goldfarb, Adolph E.; and Soriano, Rene, said Soriano assor. to said Goldfarb, Adolph E. Tethered ball apparatus with catapults and stationary goals. 3,672,676, 6-27-72, Cl. 273-101.000.
Goldfarb, Adolph E.; Strader, Judith D.; and Strader, George C., to Mattel, Inc., mesne. Doll. 3,678,616, 7-25-72, Cl. 46-151.000.
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Goldhaber, Richard Paul, to Baxter Laboratories, Inc. Mechanism for control pulsatile fluid flow. 3,639,084, 2-1-72, Cl. 417-394.
Goldhammer, Albert. Wastepaper basket with paper shredder. 3,682,402, 8-8-72, Cl. 241-100.000.
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Goldie, Harry. Means for generating narrow microwave pulses. 3,688,214, 8-29-72, Cl. 331-75.000.
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Goldin, Morris, to Hughes Tool Company. Sealed cartridge magazine. 3,636,647, 1-25-72, Cl. 42-50.
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Goldman, Henry. Non-opaque, light-filtering phototypographic font. 3,678,840, 7-25-72, Cl. 95-85.000.
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Goldman, Irving M.; and Larson, Jerry K., to Pfizer Inc. Dibenzodiazacyclotetra decadiene compounds. 3,676,428, 7-11-72, Cl. 260-239.0dd.
Goldman, Irving M., to Pfizer, Inc. Process for making activated manganese dioxide. 3,702,889, 11-14-72, Cl. 23-145.000.
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Goldman, Maurice A. Refining feed unit for a carding machine. 3,657,772, 4-25-72, Cl. 19-105.
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Goldmann, Gerhard, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Soil conditioner and garden mold on the basis of coffee extraction residue. 3,640,696, 2-8-72, Cl. 71-9.

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Goldsby, Arthur R., to Texaco Development Corporation. Alkylation encountering acidity run-aways. 3,683,041, 8-8-72, Cl. 260-683.460.
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Goldsmith, David S. Translational rotational and vertical movement controlled sound source pick-up system. 3,705,957, 12-12-72, Cl. 179-1.0gp.
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Goldstein, Avram; Leute, Richard K.; and Ullman, Edwin F., to Syva Company, mesne. Ligand determination with spin labeled compounds by receptor displacement. 3,690,834, 9-12-72, Cl. 23-230.00r.
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Goldstein, Sidney: *See—*
Grandy, Andrew J.; and Goldstein, Sidney, 3,633,509.
Goldstick, Robert Jay, to Amchem Products, Inc. Manufacturing process for esters of dihalohydroxybenzonitriles. 3,671,556, 6-20-72, Cl. 260-404.000.
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Goldstone, Bertram J., to Raytheon Company. Analog ferrite phase shifter control circuit. 3,680,110, 7-25-72, Cl. 343-100.0sa.
Goldstone, Bertram J., to Raytheon Company. Real time serial fourier transformation circuit. 3,686,490, 8-22-72, Cl. 235-156.000.
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Goldsworthy, William B., 3,650,864.
Goldsworthy, William B.; and Hardesty, Ethridge E., 3,692,601.
Karlson, Harald E., 3,645,466.
Shaw-Stewart, David E., 3,680,753.
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Goldsworthy, William Brandt, to Glastrusions, Inc. Augmented curing of reinforced plastic stock. 3,674,601, 7-4-72, Cl. 156-380.000.
Goldsworthy, William Brandt, to Glastrusions, Inc. Pultrusion machine. 3,684,622, 8-15-72, Cl. 156-441.000.
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Goldsworthy, William W., to United States of America, Atomic Energy Commission. Pulse height analyzer with digital readout. 3,688,305, 8-29-72, Cl. 340-347.0nt.
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Goldup, Alan; Westaway, Michael Thomas; and Walker, Geoffrey, to British Petroleum Company Limited, The. Separation of metal compounds. 3,645,891, 2-29-72, Cl. 210-23.
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Golembeski, John Joseph, to Bell Telephone Laboratories, Incorporated. Equalization circuit employing differential amplifier. 3,694,761, 9-26-72, Cl. 330-24.000.
Golembeski, Ronald J.: *See—*
Cichoski, Sylvester A.; Damon, Paul H.; Golembeski, Ronald J.; and Lawler, William P., 3,687,778.
Golias, Tipton L. Method of preparing hemolysates for hemoglobin and other types of electrophoresis using chelating agents. 3,634,290, 1-11-72, Cl. 252-408.
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Stephan, John T.; and Golick, A. J., 3,705,832.
Golick, Alex James: *See—*
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Golick, Alexander J.; Giuseponi, Ernest D.; and Randolph, Arthur J. Lumber sorting method. 3,687,178, 8-29-72, Cl. 143-157.00e.
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Golike, Ralph Crosby; Ostapchenko, George Joseph; and Garlington, William Drake, to Du Pont de Nemours, E. I., and Company. Heat-shrinkable films from ethylene polymer blends. 3,663,662, 5-16-72, Cl. 260-897.
Golikov, Viktor Valerjanovich: *See—*
Frolov, Jury Fedorovich; Nechaev, Ivan Petrovich; Basalaev, Anany Maximovich; Bedarev, Jury Dmitrievich; and Golikov, Viktor Valerjanovich, 3,697,660.
Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Siloxane-modified urea dervatives. 3,657,303, 4-18-72, Cl. 260-448.2.
Golitz, Hans Dietrich; and Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Siloxane-modified carbamic acid derivatives. 3,658,864, 4-25-72, Cl. 260-448.2.
Golitz, Hans Dietrich; Merten, Rudolf; Noll, Walter; and Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Cyclic thiourea derivatives and process for their manufacture. 3,663,586, 5-16-72, Cl. 260-448.
Golitz, Hans Dietrich; and Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Silyl-substituted carbamic acid derivatives. 3,673,233, 6-27-72, Cl. 260-448.20n.
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Golja, Joseph, to GTE Automatic Electric Laboratories, Incorporated. Alarm circuit for indicating failure in redundant power supplies. 3,702,469, 11-7-72, Cl. 340-248.00a.
Goll, Frederick Martin, to Western Electric Company, Incorporated. Magnetic membrane switch. 3,681,723, 8-1-72, Cl. 335-207.000.
Golladay, Arthur D.; and Moran, Kevin E., to Hercules Incorporated. Filament winding. 3,707,415, 12-26-72, Cl. 156-169.000.
Gollan, Arye, to Hydronautics, Incorporated. Continuous fluid-solid contact method and apparatus. 3,674,684, 7-4-72, Cl. 210-33.000.
Goller, Heinz: *See—*
Degen, Bruno; Goller, Heinz; Kniege, Wilfried; Noll, Walter; and Buchner, Werner, 3,692,732.
Goller, Heinz, to Osterreichische Stickstoffwerke Aktiengesellschaft. Method of producing acid of low phosphorus content from waste gases. 3,640,685, 2-8-72, Cl. 23-153.
Goller, Robert L.: *See—*
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Gollnick, Cyril R., to Leach Company. Vehicle loader. 3,653,522, 4-4-72, Cl. 214-83.3.
Gollobitz, Gregory N., to Behring Corporation. Vertical assembly apparatus. 3,699,628, 10-24-72, Cl. 29-200.00a.
Golner, Jerold Julius: *See—*
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Golovoy, Amos: *See—*
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Golownia, Robert F.; and Oswitch, Stanley, to Ferro Corporation. Epoxy-terminated polyimides. 3,700,617, 10-24-72, Cl. 260-326.00c.
Golstein, Jean, to Solvay & Cie. Procedure for the polymerization and copolymerization of vinyl chloride. 3,642,745, 2-15-72, Cl. 260-87.5.
Golstein, Jean Pierre, to Solvay & Cie. Gas phase polymerization of vinyl chloride. 3,692,718, 9-19-72, Cl. 260-23.0xa.
Goltermann, Wandel u.: *See—*
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Hoffmann, Gunther; and Zabel, Bernd, 3,696,293.
Goltsos, Costas E., to Teckton, Inc. Refrigerated conveyor system. 3,688,518, 9-5-72, Cl. 62-374.000.
Golub, Gerald. Method of purifying citrus plant effluent and raising worms and fish. 3,635,816, 1-18-72, Cl. 210-2.
Golubovic, Aleksandar, to United States of America, Air Force. Photoconductive material and method for its preparation. 3,634,424, 1-11-72, Cl. 260-250.
Gomada, Nobuyasu; and Kosaka, Genzo, to Toyo Kogyo Co., Ltd. Induction hardened, anti-wear mechanical members. 3,647,577, 3-7-72, Cl. 148-150.
Gomada, Nobuyasu, to Toyo Kogyo Co., Ltd. and Yoshiwa Kogyo Kabushiki Kaisha. Apex seal for rotary piston engine. 3,658,451, 4-25-72, Cl. 418-178.
Gomada, Nobuyasu; and Kosaka, Genzo, to Toyo Kogyo Co., Ltd. Apparatus for induction hardening of anti-wear mechanical members. 3,701,874, 10-31-72, Cl. 219-10.570.
Gomarasca, Piero; and Scolastico, Carlo, to Laboratorio Prodotti Biologici Braglia. Novel 18-nor androstane derivatives. 3,694,470, 9-26-72, Cl. 260-397.450.
Gomarin, Claude; and Vidal, Jean, to Societe TUNZINI AMELIORAIR. Machines for coating a product in a band. 3,682,133, 8-8-72, Cl. 118-202.000.
Gomel, Lorenzo Martinez, to International Standard Electric Corporation. Multipolar connector for telephone sets. 3,701,084, 10-24-72, Cl. 339-66.00m.
Gomersall, Earl Raymond; Meyer, Roger Paul; and Rejmaniak, Susan English, to Texas Instruments, Incorporated. Method for operating a manufacturing line. 3,703,725, 11-21-72, Cl. 444-1.000.
Gomes, Franklin P.; and Andrews, Donald K., to Kohala Sugar Co. Cane cutter. 3,645,073, 2-29-72, Cl. 56-13.8.
Gomez, Aldan Duane: *See—*
Pritchard, Donald A.; and Gomez, Aldan Duane, 3,662,274.
Gomez, Anthony: *See—*
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Gomez, Eloy A.; Goodsir, Stephen W.; and Marrocco, Dominic A., to American Home Products Corporation. Disposable cartridge for admixing two components of injectable medicament. 3,636,950, 1-25-72, Cl. 128-218.
Gomez, Juan Francisco Zendejas. Permanent, safety, inner doors for freight cars. 3,703,787, 11-28-72, Cl. 49-169.000.
Gomez, Mario P.: *See—*
Camahort, Jose L.; and Gomez, Mario P., 3,634,132.
Gomez, Peter Devera. Arithmetic teaching apparatus. 3,699,667, 10-24-72, Cl. 35-9.00b.
Gomez, Ray J.; and Sawa, Kenneth B., to Beckman Instruments, Inc. Bypass filter assembly and method of obtaining a filtered sample. 3,674,153, 7-4-72, Cl. 210-409.000.
Gomez-de-Bonilla, Juan Kindelan Y.: *See—*
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Gomi, Shinpei; Takahashi, Masaaki; Ishiguro, Tadashi; Okagami, Akio; Uemoto, Kunihiko; and Kuribayashi, Hiroshi, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for treating by-product heavy fractions formed in the production of olefins. 3,689,401, 9-5-72 Cl. 208-57.000.
Gominet, Marcel: *See—*
Daunis, Henri; and Gominet, Marcel, 3,658,905.

Gommel, Harry L. Play toy for felines, dogs and children. 3,648,403, 3-14-72, Cl. 46-1.
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Gompf, Thomas E.; and Lum, Kin Kwong, to Eastman Kodak Company. Diffusion transfer processes and film units comprising compounds which are cleavable upon oxidation in alkali media to produce diffusible dyes or dye precursors. 3,698,897, 10-17-72, Cl. 96-3.00.
Gona, Donald J.; and Oster, Richard J., to Eaton Yale & Towne, Inc. Registered louver assembly. 3,672,293, 6-27-72, Cl. 98-40.0vm.
Goncharova, Nina Vasilievna: *See—*
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Gondeck, Allan R., to Western Electric Company, Incorporated. Digital sine wave generator and method. 3,679,881, 7-25-72, Cl. 235-152.000.
Gondo, Yasaka: *See—*
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Gondolfe, James D.; Scalan, Ruth; and Ward, Jeanne A., to Polaroid Corporation. Diffusion transfer photographic elements comprising 5-hydroxy-4-azabenzimidazole and a second azabenzimidazole, and processes for their use. 3,687,660, 8-29-72, Cl. 96-3.000.
Gondrand, Michel: *See—*
Fabre, Pierre; Giroud-Garampon Robert; Gondrand, Michel; and Raymond, Fernand, 3,695,909.
Gongwer, Calvin A., to Innerspace Corporation. Streamline swim mask. 3,653,086, 4-4-72, Cl. 9-329.
Gonis, George; and Slezak, Frank B., to Union Camp Corporation. Method for synthesizing maleopimaric acid. 3,658,891, 4-25-72, Cl. 260-514.5.
Gono, Yoshio: *See—*
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Gonon, Eugen, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for the production of continuous lengths of foamed polystyrene. 3,674,387, 7-4-72, Cl. 425-4.000.
Gonta, Stewart J.; Hallis, Thomas, Jr.; and Johnson, Lawrence S., to Union Oil Company of California. Process for blending high molecular weight polyethyene into wax, and wax coating composition produced therefrom. 3,660,336, 5-2-72, Cl. 260-28.5.
Gonta, Stewart J.; and Hallis, Thomas, Jr., to Union Oil Company of California. Wax coating process for corrugated paperboard. 3,692,564, 9-19-72, Cl. 117-102.00r.
Gonthier, Beatrice: *See—*
Makula, Daniel; Druet, Monique; and Gonthier, Beatrice, 3,696,099.
Gonzales, Elwood J.; Berni, Ralph J.; and Benerito, Ruth R., to United States of America, Agriculture. Non-aqueous crosslinking of cellulose with a methylolated urea in the absence of an acidic catalyst. 3,645,667, 2-29-72, Cl. 8-116.3.
Gonzales, John: *See—*
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Gonzales, Michael; Benton, Richard H.; and Moore, William G., to Dibble, Leland, Jr. Game having captured marble exposed for digital manipulation. 3,706,457, 12-19-72, Cl. 273-153.00s.
Gonzales, Ramon L. Birth control valve. 3,704,704, 12-5-72, Cl. 128-1.00r.
Gonzalez, Cesar Fernandez-Veraud. Nuts and lock nuts coupled in one single unit for tightening at a controlled torsion. 3,664,226, 5-23-72, Cl. 85-61.
Gonzalez, Ricardo A., to Xerox Corporation. Paper flip control apparatus. 3,685,898, 8-22-72, Cl. 355-3.000.
Gonzalez, Roberts Barrera: *See—*
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Gonzalez, Vicente Emo. Concealable beds. 3,665,527, 5-30-72, Cl. 5-10.00b.
Gonzalez, Xavier F., to United States of America, Army. Radiation hardened R-L flip-flop circuit. 3,700,930, 10-24-72, Cl. 307-292.000.
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Gonzenbach, Carlos T.; and Jordan, Manuel A., to Schenectady Chemicals, Inc. Interpolymers prepared from vinyl toluene, alpha methyl styrene, dicyclopentadiene and optionally and acrylic compound. 3,640,977, 2-8-72, Cl. 260-80.78.
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Gooch, John Henry. Railway transmission. 3,672,310, 6-27-72, Cl. 105-96.200.
Good, Arthur L., to Robertshaw Controls Company. Electrical switch construction. 3,662,132, 5-9-72, Cl. 200-670.
Good, Arthur L., to Robertshaw Controls Company. Valve construction. 3,683,962, 8-15-72, Cl. 137-609.000.
Good, Arthur L. Pneumatic fuel control system and method of operating the same. 3,685,945, 8-22-72, Cl. 431-6.000.
Good, Arthur L.; and Reese, Robert P., to Reese Products, Inc. Hitch combination for preventing the coupling of two vehicles having mismatching vehicle characteristics. 3,694,006, 9-26-72, Cl. 280-507.000.
Good, Paul F., to Speedco, Inc. Machine for filling luncheon dough into mold cans. 3,688,682, 9-5-72, Cl. 99-234.00r.
Good, Paul J., to Minnesota Mining and Manufacturing Company. Spring-powered preloaded camera. 3,685,414, 8-22-72, Cl. 95-31.0ac.
Good, Richard Samuel Jonathon; and Harvey, Barry Charles, to Marwin Machine Tools Limited. Machine tool gantries. 3,680,438, 8-1-72, Cl. 90-11.00r.
Goodacre, Charles Lindsay, to Fiat Societa per Azioni. Internal combustion engine. 3,651,638, 3-28-72, Cl. 60-39.6.
Goodacre, Ronald, to Lansing Bagnall Limited. Mounting devices for thyristors. 3,662,231, 5-9-72, Cl. 317-234.
Goodale, Donald M., to Burroughs Corporation. Multi-track storage system having a touch circuit with individual head indication. 3,654,628, 4-4-72, Cl. 340-174.1.
Goodale Manufacturing Company, Inc.: *See—*
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Goodale, Richard J., 3,646,977.
Goodale, Richard J., to Goodale Manufacturing Company, Inc. Apparatus for sorting and grading cut flowers. 3,645,394, 2-29-72, Cl. 209-82.
Goodale, Richard J., to Goodale Manufacturing Company, Inc. Broccoli trimming machine. 3,646,977, 3-7-72, Cl. 146-78.
Goodale, William B., to Ford Motor Company. Hydraulic steering system having auxiliary power source. 3,696,613, 10-10-72, Cl. 60-52.00s.
Goodall, Laurence, to Ferranti, Limited. Means for rapidly switching tuned circuits of variable-frequency oscillators from one state to another. 3,646,477, 2-29-72, Cl. 331-117.
Goodall Rubber Company: *See—*
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Goodart, Everett E. Egg separator. 3,656,525, 4-18-72, Cl. 146-2.
Goodbar, Reid C.; and Pressley, Arther Mitchell, to Riegel Textile Corporation. Antistatic yarn production. 3,703,073, 11-21-72, Cl. 57-36.000.
Goodbody, Richard L., to United States of America, Navy. HF superstructure discone antenna. 3,671,971, 6-20-72, Cl. 343-710.000.
Goodboy, George O., Jr.; Green, Donald W.; and Kopec, Conrad J., to Macro Synetic Systems, Inc. Off-shore transporation industrial and urban. 3,680,320, 8-1-72, Cl. 61-46.000.
Goode, James K.: *See—*
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Goode, James K., Jr.: *See—*
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Goode, John P.; Saeli, John J.; and Sformo, James P., to Sybron Corporation. Electrode retaining chuck handle assembly with adapter unit. 3,665,372, 5-23-72, Cl. 339-91.
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Goodenough, Walter E., to Etronic Corporation. Gaging head for pneumatic bore gaging devices. 3,646,685, 3-7-72, Cl. 33-143.
Goodenow, Elden L.: *See—*
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Gooder, Robert M. System for fabricating structural members. 3,636,604, 1-25-72, Cl. 29-155.
Gooder, Robert M. System for fabricating structural members. 3,639,962, 2-8-72, Cl. 29-155.
Gooderum, Leoda J. Zipper foot attachment for sewing machines. 3,643,614, 2-22-72, Cl. 112-240.
Gooderum, Leoda J. Legless ironing board. 3,669,032, 6-13-72, Cl. 108-97.000.
Gooderum, Leoda J. Zipper foot attachment for sewing machines. 3,677,209, 7-18-72, Cl. 112-240.000.
Goodfellow, Harry Edwin: *See—*
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Goodfellow, Robert D., to Kennametal Inc., mesne. Rotary cutter for excavation, especially for use with raise boring and tunnel boring machines. 3,679,009, 7-25-72, Cl. 175-374.000.
Goodfellow, Robert D., to Subterranean Tools, Inc. Rotary cutter for excavation, especially for use with raise boring and tunnel boring machines. 3,707,315, 12-26-72, Cl. 308-8.200.
Goodgion, James C.; and Blossom, Armond L., to Coleman Company, Inc., The. Base assembly for mobile home furnace. 3,656,470, 4-18-72, Cl. 126-110.
Goodgion, James C.; and Blossom, Armond L., to Coleman Company, Inc., The. Mobile home air heating and cooling system. 3,685,577, 8-22-72, Cl. 165-48.000.
Goodhart, Steven E.; and Channels, Alfred C., to Stanray Corporation. Load carrying vehicle. 3,687,321, 8-29-72, Cl. 214-512.000.
Goodhouse, Carl J.; and Strachan, Robert, to Robertshaw Controls Company. Cooking computer means. 3,688,978, 9-5-72, Cl. 235-61.00a.
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Boom, Roger J.; Cotton, John M.; Goodier, Martin J.; and Cosserat, David C., 3,657,736.
Goodier, Vera M.; and Goodier, Kenneth C. Apparatus for baking doughnuts a goody-er donut baker. 3,638,583, 2-1-72, Cl. 107-19.
Gooding, Chester M., to CPC International Inc. Production of high stability liquid vegetable oils. 3,674,821, 7-4-72, Cl. 260-409.000.
Gooding, Chester Martin; Parker, Wilbur; and Melnick, Daniel, to CPC International Inc. Peanut butter. 3,671,267, 6-20-72, Cl. 99-128.000.
Gooding, Harley L., Jr., to Parker-Hannifin Corporation. Swivel fitting. 3,685,397, 8-22-72, Cl. 92-106.000.
Gooding, Jack E.: *See—*
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Gooding, Otis E.; and Dixon, Alton E., to United States of America, Navy, mesne. Minimum shift keyed (MSK) phase measurement device. 3,674,934, 7-4-72, Cl. 178-88.000.
Gooding, Ronald William; and Parratt, Noel James, to National Research Development Corporation. Process and apparatus for classifying fibres. 3,633,743, 1-11-72, Cl. 209-250.
Goodkind, Karen B.; Hamilton, Brett B.; Larson, Ake L.; and Whittington, Jimmie L., to Mattel, Inc. Sound reproducing educational toy bank. 3,667,136, 6-6-72, Cl. 35-8.00a.
Goodley, George F., to FMC Corporation. Method and apparatus for binding packages. 3,691,939, 9-19-72, Cl. 100-2.000.
Goodloe, Alfred H.; deceased (by Goodloe, Edith Jamison; executrix). Compression pad of knitted elastic. 3,667,142, 6-6-72, Cl. 38-66.000.
Goodloe, Edith Jamison: *See—*
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Goodman, Abraham H.: *See—*
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Schiffmann, Robert F.; Roth, Howard; Lipka, David H.; and Goodman, Abraham H., 3,679,432.
Smadar, Yechiel; and Goodman, Abraham H., 3,677,443.
Goodman, Brian L.; and Higgins, Robert B., to Ecodyne Corporation. Sewage treatment system. 3,704,788, 12-5-72, Cl. 21-401.000.
Goodman Brothers Manufacturing Company: *See—*
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Yu, Albert Y. C.; Gopen, Howard J.; and Waits, Robert K., 3,702,290.
Gopert, Max, to Krauss-Maffei Aktiengesellschaft. Machine-control system. 3,700,994, 10-24-72, Cl. 318-579.000.
Gor, Vishnu J.; and Manuel, Ernesto H., to Continental Can Company, Inc. Electron beam cross-linking of coating compositions containing ethylene unsaturated carboxylic acid copolymers and a melamine composition. 3,647,520, 3-7-72, Cl. 117-93.31.
Goralczyk, Wilhelm: *See*—
Emicke, Klaus; and Goralczyk, Wilhelm, 3,684,489.
Gorall, Donald J.: *See*—
Farnham, Norman W.; Mueller, William J.; and Gorall, Donald J., 3,640,219.
Goralnick, Norman S. Multi-tone push button controlled electronic horn. 3,707,716, 12-26-72, Cl. 340-384.00e.
Goralski, Christian T.: *See*—
Gum, Wilson F., Jr.; and Goralski, Christian T., 3,703,515.
Goransson, Ingemar E.: *See*—
Granstrom, Staffan N.; and Goransson, Ingemar E., 3,701,357.
Goransson, Nils Paul, to Saab-Scania Aktiebolag. Transducer for measuring mechanical forces. 3,664,187, 5-23-72, Cl. 73-141.00a.
Gorbahn, Fritz. Disposable syringe for the blind. 3,680,559, 8-1-72, Cl. 128-220.000.
Gorbaty, Martin L.: *See*—
Rosenfeld, Daniel D.; and Gorbaty, Martin L., 3,681,352.
Gorbaty, Martin L., to Esso Research and Engineering Company. Uracil phosphates. 3,658,818, 4-25-72, Cl. 260-260.
Gorbaty, Martin L., to Esso Research and Engineering Company. Barbiturate 3-n-methylene phosphates. 3,679,683, 7-25-72, Cl. 260-257.000.
Gorbei, Janos Miklos: *See*—
Widmer, Fritz; and Gorbei, Janos Miklos, 3,678,983.
Gorbei, Janos Miklos; and Dermota, Franc, to Luwa AG. Thin film apparatus. 3,633,645, 1-11-72, Cl. 159-6.
Gorbran, Ramsis; and Ofstead, Ronald F., to Minnesota Mining and Manufacturing Company. Photographic emulsions containing non-polymeric amines. 3,674,497, 7-4-72, Cl. 96-94.000.
Gorbuntsov, Alexandr Fedorovich; Berlinblau, Efim Petrovich; and Pul, Nikolai Kuzmich. Ferroresonance voltage stabilizer. 3,662,254, 5-9-72, Cl. 323-45.
Gorchev, Dimiter. Induction system having variable primary volume and variable induction. 3,638,679, 2-1-72, Cl. 137-604.
Gordini, Silvano: *See*—
Carli, Roberto; and Gordini, Silvano, 3,705,787.
Gordon, Alex F., to United Merchants and Manufacturers, Inc. Press-free garment production. 3,663,159, 5-16-72, Cl. 8-116.300.
Gordon, Amirav: *See*—
Gross, Jack; Gordon, Amirav; and Schick, Lloyd Alan, 3,659,104.
Gordon, Arthur L.; and Warwick, Leonard A., to Kraftco Corporation. Food packaging method employing release agent coated packaging material. 3,645,757, 2-29-72, Cl. 99-171.
Gordon, Asquith Deakin; and Gordon, Vinnicombe. Apparatus for moulding liners of plastic material within container closures. 3,702,225, 11-7-72, Cl. 425-112.000.
Gordon, Bernard M., to Gordon Engineering Company. Field effect transistor switch, particularly for multiplexing. 3,654,394, 4-4-72, Cl. 179-15.
Gordon, Bernard M.; Neumann, Leopold; and Kirsch, Ivan H., to Gordon Engineering Company. Grinding system. 3,665,652, 5-30-72, Cl. 51-165.71.
Gordon, Bruce L.: *See*—
Wideman, Gilder L., 3,675,659.
Gordon, Chester D.: *See*—
West, William W.; Bolt, Robert O.; and Gordon, Chester D., 3,639,546.
Gordon, Colin C.; and McGavic, John P., to General Motors Corporation. Electronic fuel injection system. 3,702,601, 11-14-72, Cl. 123-32.0ea.
Gordon, Colin G.: *See*—
Heine, John C.; Kerwin, Edward M., Jr.; and Gordon, Colin G., 3,666,275.
Gordon, Dale I.; and Smart, Lee W., to Westinghouse Electric Corporation. Dynamoelectric machine apparatus, such as brushless exciter for A. C. generator, with flexible tape capacitive means. 3,686,523, 8-22-72, Cl. 310-72.000.
Gordon, David A.: *See*—
Schlumbom, Peter; and Gordon, David A., 3,635,916.
Seltzer, Raymond; and Gordon, David A., 3,700,665.
Gordon, David E., to Deering Milliken Research Corporation. Production of pile fabrics. 3,669,779, 6-13-72, Cl. 156-72.000.
Gordon, David R.; and Tarbox, Gary L., to Pacific Electro Dynamics, Inc. A.C.-to-A.C. power regulation circuits having low E.M.I. and shorted load protectirn. 3,667,030, 5-30-72, Cl. 323-24.
Gordon, Douglas, to Briggs & Stratton Corporation. Muffler for internal combustion engines. 3,650,354, 3-21-72, Cl. 181-40.
Gordon, Eileen. Tubular knitting device. 3,648,484, 3-14-72, Cl. 66-4.
Gordon Engineering Company: *See*—
Di Rocco, James V., 3,696,403.
Gordon, Bernard M., 3,654,394.
Gordon, Bernard M.; Neumann, Leopold; and Kirsch, Ivan H., 3,665,652.
Lucas, Paul G., 3,649,924.
Lucas, Paul G., 3,660,694.
Rigby, Sherman, 3,641,543.
Gordon, Fred Morris, to American Cyanamid Company. Synergistic insecticidal and nematocidal compositions. 3,651,225, 3-21-72, Cl. 424-200.
Gordon, Frederick Armstrong; Griffin, James Richard; and Pezzarossi, John Joseph, to American Standard, Inc. Water control for toilet tanks. 3,693,649, 9-26-72, Cl. 137-414.000.
Gordon, Gary B., to Hewlett-Packard Company. Method and apparatus for averaging the digital display for a fluctuating digital measurement and improving the resolution of the measurement. 3,638,001, 1-25-72, Cl. 235-152.
Gordon, Gary B.; and Garman, Jonathan D., to Hewlett-Packard Company. Method and apparatus for the measurement and display of error values of percision machine tools, electronic instruments, etc. 3,654,446, 4-4-72, Cl. 235-151.3.
Gordon, Gary B., to Hewlett-Packard Company. Logic clip. 3,670,245, 6-13-72, Cl. 324-73.00r.
Gordon, Gary B., to Hewlett-Packard Company. Automatic multirange display apparatus and control therefor. 3,697,960, 10-10-72, Cl. 340-172.500.
Gordon, George Andrew Douglas. Ultrasonic diagnostic apparatus. 3,695,252, 10-3-72, Cl. 128-2.00v.
Gordon, George E.; and Landrum, Leon L. Baseball equipment storage rack. 3,698,563, 10-17-72, Cl. 211-13.000.
Gordon, Harry W.; and Fingado, Gustav, to Schmid, Julius, Inc. Incubator. 3,660,242, 5-2-72, Cl. 195-139.000.
Gordon, Harry W., to Schmid, Julius, Inc. Vaginal capsule. 3,664,341, 5-23-72, Cl. 128-271.
Gordon, Hayden S., to United States of America, Air Force. Polyertic cyclotron. 3,641,446, 2-8-72, Cl. 328-228.
Gordon, Hershel; and McAdoo, Charles R., Jr., to Optisonics Corporation, mesne. Sound reproducing and optical projector function control apparatus. 3,673,346, 6-27-72, Cl. 179-100.20s.
Gordon, Howard W.; and Shepard, James N., to United States Steel Corporation. Strip accumulator. 3,698,613, 10-17-72, Cl. 226-118.000.
Gordon, Irving; Hodan, James J.; and Dever, James L., to Hooker Chemical Corporation. Process for preparing bisphosphite esters of alkylidene diphenol. 3,646,173, 2-29-72, Cl. 260-976.
Gordon, James F.: *See*—
Scheldorf, Owen H.; and Gordon, James F., 3,690,120.
Gordon, James F., to Zeta Research, Inc. Graphic recorder with pen driving and actuating mechanism. 3,673,604, 6-27-72, Cl. 346-139.00b.
Gordon, James Franklin, to Zeta Research, Inc. Graphic recorder with paper tensioning mechanism. 3,653,068, 3-28-72, Cl. 346-136.
Gordon, Jeanne E., to Owens-Corning Fiberglas Corporation. Method for determining relative degree of cure of impregnated tire cord. 3,679,457, 7-25-72, Cl. 117-66.000.
Gordon, Jeffrey L., to Machlett Laboratories, Incorporated, The. Power regulating means for light amplifier tubes. 3,665,247, 5-23-72, Cl. 315-205.000.
Gordon, John Edson: *See*—
Feldman, Martin Louis; and Gordon, John Edson, 3,679,713.
Gordon, John Edson; and Feldman, Martin Louis, to American Cyanamid Company. Recovery and purification of methyl violet dyes. 3,686,233, 8-22-72, Cl. 260-391.000.
Gordon, John Edward. Cable feed device. 3,667,552, 6-6-72, Cl. 173-147.
Gordon, Joseph; Kaufman, Paul R.; and Hoke, Donald I., to Lubrizol Corporation, The. Method for the preparation of N-3-oxohydrocarbonsubstituted acrylamides. 3,649,688, 3-14-72, Cl. 260-561.
Gordon, Keith M., to MPB Corporation. Bearing torque test instruments. 3,685,342, 8-22-72, Cl. 73-9.000.
Gordon, Lloyd M.: *See*—
Fleigher, Charles W., 3,664,707.
Gordon, Maxwell; and Weisbach, Jerry A., to Smith Kline & French Laboratories. Glyceride derivatives of prostaglandins. 3,632,627, 1-4-72, Cl. 260-468.
Gordon, Maxwell; and Stewart, Carleton C., to Smith Kline & French Laboratories. Vaginal suppositories and impregnated tampons. 3,639,561, 2-1-72, Cl. 424-28.
Gordon, Maxwell; and Stewart, Carleton C., to Smith Kline & French Laboratories. Vaginal suppositories and impregnated tampons. 3,639,562, 2-1-72, Cl. 424-28.
Gordon, Michael E., to Celanese Corporation. Modified oxymethylene polymers. 3,658,749, 4-25-72, Cl. 260-37.
Gordon, Michael S.; and Messmore, Francis B., to Research Corporation. Cardiac training mannikin. 3,662,076, 5-9-72, Cl. 35-17.
Gordon, Paul, to Newport Pharmaceuticals, Inc. Complex of inosine with dialkylaminoalkanol. 3,646,007, 2-29-72, Cl. 260-211.5.
Gordon, Paul C.: *See*—
Peacock, Peter J.; and Gordon, Paul C., 3,672,136.
Scarnato, Thomas J.; Gordon, Paul C.; Hunter, Stephen R.; Krage, Paul W.; and Zablocki, Richard A., 3,673,779.

Gordon, Peter L.: *See—*
Kunov, Hans (said Kunov assor. to), 3,673,979.

Gordon, Ralph S. Combined pen or pencil and compartment. 3,639,069, 2-1-72, Cl. 401-195.

Gordon, Reuben H.; and Brown, Ivan H. Magnetic probe. 3,664,327, 5-23-72, Cl. 128-1.4.

Gordon, Richard O., to Hainischfeger Corporation. Vehicle steering system of the fluid power type and spring centered, spring modulated control cylinder therefor. 3,696,881, 10-10-72, Cl. 180-79.20r.

Gordon, Robert A., to Eastman Kodak Company. Photographic web processing device. 3,640,204, 2-8-72, Cl. 95-94.

Gordon, Robert C.: *See—*
Darrah, John H.; Bell, James C.; Vorachek, Jerome J.; Bezbatchenko, John W.; Biecker, George A.; Barton, James A.; Gordon, Robert C.; and Kirschner, Gerald D., 3,680,129.

Gordon, Robert R.: *See—*
Kahn, Leonard R.; and Gordon, Robert R., 3,696,298.

Gordon, Robert Wilmer: *See—*
Totten, Thomas Bernard; and Gordon, Robert Wilmer, 3,686,496.

Gordon, Ronald Orville: *See—*
Ryder, Francis Eugene; and Gordon, Ronald Orville, 3,657,491.

Gordon, Ronnie D., to Continental Oil Company. Dehydrohalogenation catalyst. 3,664,966, 5-23-72, Cl. 252-430.

Gordon, Ronnie D., to Continental Oil Company. Process for replacing chloride groups in polyvinyl chloride. 3,696,084, 10-3-72, Cl. 260-79.30r.

Gordon, Roslyn, to New York University. Adjustable work table. 3,682,109, 8-8-72, Cl. 108-9.000.

Gordon, Roy Charles: *See—*
Cate, Alan Clifford; and Gordon, Roy Charles, 3,680,991.

Gordon, Sherritt, Mines Limited: *See—*
Mackiw, Vladimir Nicolaus; Veltman, Herbert; and Vizsolyi, Andrew Imre, 3,637,371.
Vaneldik, Jan Frederik; Wilson, Ronald Ian; Kampjes, Gerrie Richard; and Lavender, William James, 3,705,478.
Vosahlova, Eva A.; and Weir, Donald Robert, 3,644,114.

Gordon, Stuart; Evans, Geoffrey Ian; and Cunliffe, Alwyn, to Imperial Metal Industries (Kynoch) Limited. Solid propellant charge making in mold having perforated separator means. 3,678,138, 7-18-72, Cl. 264-3.00r.

Gordon, Vinnicombe: *See—*
Gordon, Asquith Deakin; and Gordon, Vinnicombe, 3,702,225.

Gordon, Walter C., to DeSoto Chemical Co., Inc. Insecticide apparatus. 3,643,371, 2-22-72, Cl. 43-131.

Gordon, William E.: *See—*
Rainbird, Herbert A.; and Gordon, William E., 3,661,165.

Gordon, William E., to Celanese Corporation of America. Method for preventing explosions. 3,692,823, 9-19-72, Cl. 260-497.00a.

Gordon, William F.; and Newman, James W., to Windings, Inc. Machine for winding flexible material. 3,655,140, 4-11-72, Cl. 242-18.

Gordon, William F.; and Newman, James W., to Windings, Inc. Package of flexible material. 3,677,490, 7-18-72, Cl. 242-163.000.

Gordt-Griess, Hanna: *See—*
Barth, Hans; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Griess, Wilhelm, 3,706,675.

Gordy, John; and Harris, Douglas R., to Stellar Industries Ltd. Electrolytic destruction of sewage. 3,703,453, 11-21-72, Cl. 204-151.000.

Gordy, William G.; and Keil, Joseph W., to Dow Corning Corporation. Surface treatment of organic polymers. 3,632,715, 1-4-72, Cl. 264-136.

Gore, Donald B.: *See—*
Culkowski, Edwin M.; Gore, Donald B.; and Kassay, Andrew W., 3,686,105.

Gore, Graves T., to Riegel Textile Corporation. Apparatus for successively forming disposable diapers. 3,661,680, 5-9-72, Cl. 156-467.

Gore, Graves T., to Riegel Textile Corporation. Apparatus for fabricating sanitary napkins. 3,669,800, 6-13-72, Cl. 156-383.000.

Gore, W. L., & Associates, Inc.: *See—*
Gore, Wilbert L., 3,664,915.

Gore, Wilbert L., to Gore, W. L., & Associates, Inc. Sealing material. 3,664,915, 5-23-72, Cl. 161-164.

Gore, William C.; and Shapiro, Eugene B., to Beatrice Foods Company. Clutch for use in the plumbing field. 3,696,639, 10-10-72, Cl. 64-29.000.

Gorecki, Joseph S.: *See—*
Martin, Jack; and Gorecki, Joseph S., 3,696,265.

Gorecki, Thomas A.: *See—*
Loewenstein, Paul; and Gorecki, Thomas A., 3,673,667.

Gorenshtein, Ilya Vladimirovich: *See—*
Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Yakov Benediktovich, 3,648,471.

Gores, Kenneth W. Cushion tip for atomizer nozzles. 3,637,141, 1-25-72, Cl. 239-326.

Gores, Kenneth W., to MPL, Inc. Method of forming bevel oriented needle arrangement. 3,662,457, 5-16-72, Cl. 29-508.

Gorey, Edward F.: *See—*
Brack, Karl; Gorey, Edward F.; and Schwuttke, Guenther H., 3,666,548.
Dupnock, Andrew; Gorey, Edward F.; and Keenan, William A., 3,676,775.

Gorgei, Donald J.; Weisz, Daniel I.; and Cooper, Russell B., to Beaver-Advance Corporation. Conveyor system for viscous or cementitious material. 3,656,607, 4-18-72, Cl. 198-118.

Gorgens, Joseph E.; Heske, William A.; and Goff, Randall, to Dresser Industries, Inc. Condition responsive apparatus. 3,691,843, 9-19-72, Cl. 73-411.000.

Gorgone, Robert L.; and Emary, Robert J., to Gilford Instrument Laboratories, Inc. Temperature controlled flow cell. 3,646,313, 2-29-72, Cl. 219-200.

Gori, Enzo: *See—*
Giani, Mario; Molteni, Luigi; and Gori, Enzo, 3,646,144.

Gorike, Rudolf, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Decorative arrangement for microphone assemblies. 3,642,558, 2-15-72, Cl. 161-5.

Gorike, Rudolf; and Lemoch, Karl, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Lavalier microphone assembly protected against friction noises. 3,651,286, 3-21-72, Cl. 179-180.

Gorike, Rudolf, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Headband construction for headphones. 3,682,268, 8-8-72, Cl. 181-31.00r.

Gorin, Eugene: *See—*
Perry, E Robert; and Gorin, Eugene, 3,646,288.

Gorin, Eugene, to I-T-E Imperial Corporation. Rigid multiconductor bus system for use in high current and extra ultra high voltage systems. 3,679,811, 7-25-72, Cl. 174-72.00b.

Gorin, Everett: *See—*
Yavorsky, Paul M.; and Gorin, Everett, 3,687,614.

Gorin, Everett, to Consolidated Coal Company. Method of calcining and desulfurizing carbonaceous contiguous bed of agglomerates with particulate heat carriers. 3,671,401, 6-20-72, Cl. 201-12.000.

Gorin, Everett; and Yavarosky, Paul M., to Consolidated Coal Company. Desulfurization of flue gas. 3,687,615, 8-29-72, Cl. 23-2.0sq.

Gorin, Everett; and Yavorsky, Paul M., to Consolidation Coal Company. Cyclic process for removal of SO_2 from flue gas. 3,690,818, 9-12-72, Cl. 423-243.000.

Gorin, Everett; and Yavorsky, Paul M., to Consolidation Coal Company. Desulfurization of flue gas. 3,690,824, 9-12-72, Cl. 423-243.000.

Gorinas, Guy G.; and Regal, Jean C. A., to Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique Alcatel. Method for obtaining electrical connections, especially for microcircuits. 3,702,500, 11-14-72, Cl. 29-628.000.

Gorinas, Guy Georges: *See—*
Brilman, Michel Edmond Francis; Campagne, Jean-Pierre Alain; and Gorinas, Guy Georges, 3,641,517.

Goring, Cleve A.; and Noveroske, Robert L., to Dow Chemical Company, The. Metal salt complexes of imidazolylphosphonothioates. 3,632,755, 1-4-72, Cl. 424-200.

Gorini, Edmondo. Method for manufacture of stocking toes. 3,685,320, 8-22-72, Cl. 66-95.000.

Gorissen, Wolfhelm, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Switchgear for electrically operated windows of vehicles, especially motor vehicles. 3,652,911, 3-28-72, Cl. 318-474.

Gorjanc, Henry A.: *See—*
Dunning, Franklin W.; and Gorjanc, Henry A., 3,701,442.

Gorjunov, Vladimir Ivanovich: *See—*
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Gorkiewicz, Walter Joseph: *See—*
Van Raalte, John A.; and Gorkiewicz, Walter Joseph, 3,637,308.

Gorkiewicz, Walter Joseph; and Van Raalte, John A., to RCA Corporation. Achromatic depth-of field correction for off-axis optical system. 3,704,936, 12-5-72, Cl. 350-161.000.

Gorkovsky Avtomobilny Zavod: *See—*
Mozokhin, Nikolai G.; Maskenskov, Konstantin Mikhailovich; Kerimov, Niyazi Abdulkasim Ogly; Guseinova, Zuleikha Ismail Kyzy; Mekhtiev, Rafik Isrofil Ogly; and Evart, Garri Voldemarovich, 3,682,146.

Gorkovsky Filial Tsentralnogo nauchno-issledovatelskago instituta metallurgii i Svarki: *See—*
Demeter, John C., 3,696,334.

Gorling, Karl Goran, to Boliden Aktiebolag. Process for low temperature chlorination of roasted products from an iron sulphide roasting process prior to leaching out the non-ferrous metal present therein. 3,674,462, 7-4-72, Cl. 75-9.000.

Gorman, Anthony Graham, to Amplivox Limited. Ear defenders. 3,637,040, 1-25-72, Cl. 181-33.

Gorman, Jeremy W., to Loctite Corporation. Encapsulation of monomeric materials. 3,704,264, 11-28-72, Cl. 252-316.000.

Gorman, John R. Balancing game. 3,675,920, 7-11-72, Cl. 273-1.00r.
Gorman, Joseph. Pocket-folder and binder. 3,680,969, 8-1-72, Cl. 402-3.000.
Gorman, Wayne D. Motor cycle back rests. 3,698,762, 10-17-72, Cl. 297-195.000.
Gorman, William G.; and Katz, Erich, to Sterling Drug Inc. Aqueous magnesium hydroxide suspensions. 3,692,898, 9-19-72, Cl. 424-158.000.
Gorman-Rupp Company, The: *See—*
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Gornall, Henry A., to Ferro Corporation. Endless furnace and the method of utilizing same for dry process, vitreous enameling. 3,649,327, 3-14-72, Cl. 117-23.
Gorndt, John H., to Lord Corporation. Rotor system. 3,700,352, 10-24-72, Cl. 416-134.000.
Gorniak, Jerry T. Applicator for flooring materials. 3,650,440, 3-21-72, Cl. 222-565.
Gornott, Dietmar: *See—*
Wupper, Max E.; vonFelgel-Farnholz, Richard; and Gornott, Dietmar, 3,652,784.
Gornowicz, Gerald A.; and Wendel, Samuel R., to Dow Corning Corporation. Process of making amino substituted organosilicon compounds and the compounds made thereby. 3,660,454, 5-2-72, Cl. 260-448.8.
Gorog, Istvan: *See—*
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Gorog, Peter: *See—*
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Gorrell, John H., to King-Seeley Thermos Co., mesne. Method of making patterned metal coatings by selective etching of metal. 3,647,508, 3-7-72, Cl. 117-38.
Gorrell, John H., to King-Seeley Thermos Co., mesne. Metallized article. 3,660,138, 5-2-72, Cl. 117-35.
Gorrell, Richard L.; and Gibson, Harold F., to Kickshaw, Inc. Multifilm projector. 3,687,536, 8-29-72, Cl. 353-35.000.
Gorring, Robert L., to Mobil Oil Corporation. Growing hydrocarbon-utilizing microorganisms. 3,642,577, 2-15-72, Cl. 195-28.
Gorsky, Anatoly Vasilievich: *See—*
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Gardel, Robert; and Gorsky, Egon, 3,672,097.
Gardel, Robert; and Gorsky, Egon, 3,700,384.
Gorsuch, Harold F., to Westinghouse Electric Corporation. Automatic line switch lock-out. 3,689,718, 9-5-72, Cl. 200-61.620.
Gorsuch, Reynolds G., to Bourns, Inc., mesne. Volumetric respirator. 3,633,576, 1-11-72, Cl. 128-145.8.
Gorsuch, Reynolds G., to Bourns, Inc., mesne. Apparatus for parenteral fluid infusion provide with variable flow control means. 3,690,318, 9-12-72, Cl. 128-214.00e.
Gortnar, Franc; Zalokar, Zarko; Klun, Fedor; and Bulog-Gortnar, Velena, to Strojna Tovarna Trbovlje. Hydrostatic drive arrangement for vehicles with automatic adaptation of circumferential forces and wheel speeds to friction and curvature conditions. 3,656570, 4-18-72, Cl. 180-6.48.
Gorton, Fred B. Fluorescent lighting circuit. 3,660,716, 5-2-72, Cl. 315-187.
Gorton Machine Corporation: *See—*
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Gorton, Slade, & Co., Inc.: *See—*
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Gorton, Thomas S., Jr.: *See—*
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Wenstrom, Richard T.; and Gorton, Thomas S., Jr., 3,683,458.
Gortz, Gunther, to Porsche, Dr.-Ing., H.c.F., K.G., Firma. Synchronous device for change-speed gears especially for motor vehicles. 3,633,716, 1-11-72, Cl. 192-53.
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Goryachkin, Vladimir Ivanovich: *See—*
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Gorzell, Keith E. Sprinkler system wheel structure. 3,684,180, 8-15-72, Cl. 239-212.000.
Goscenski, Edward J., to Bendix Corporation, The. By-pass orifice for hydraulic boost device. 3,633,462, 1-11-72, Cl. 91-450.
Goscenski, Edward J., to Bendix Corporation, The. Concentric brake booster with moving hoses. 3,677,007, 7-18-72, Cl. 60-54.60p.
Goscenski, Edward J., to Bendix Corporation, The. Mechanism for hydraulic brake booster. 3,677,138, 7-18-72, Cl. 91-373.000.
Goscenski, Edward J., Jr.: *See—*
Lewis, Richard L.; and Goscenski, Edward J., Jr., 3,701,305.
Goscenski, Edward J., Jr., to Bendix Corporation, The. Gear generating fixture for gear shaper. 3,707,111, 12-26-72, Cl. 90-8.000.
Gosden, Derek Vernon: *See—*
Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Conners, Alan; and Gosden, Derek Vernon, 3,649,243.
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Gosewinkel, Werner: *See—*
Voigt, Hans; Stoeck, Georg; Gosewinkel, Werner; and Kusch, Theodor, 3,684,573.
Goshen, Randal W.: *See—*
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Goshi Kaisha Yoshikawa Seimitsu Kohsakusho: *See—*
Yoshikawa, Kengi; and Hayashi, Etsuo, 3,704,048.
Goshi, Yoichi; and Fukao, Yoshiro, to Tokyo Shibaura Electric Co., Ltd. Double crystal X-ray spectrometer. 3,639,759, 2-1-72, Cl. 250-51.5.
Goshima, Takeshi, to Canon Camera Kabushiki Kaisha. Camera shutter incorporating a governor mechanism. 3,662,664, 5-16-72, Cl. 95-63.000.
Goshima, Takeshi; and Imai, Nobuhiro, to Canon Kabushiki Kaisha. Reel brake device for tape recorder. 3,670,992, 6-20-72, Cl. 242-204.000.
Goshima, Takeshi; Ohta, Shoji; and Imai, Nobuhiro, to Canon Kabushiki Kaisha. Mode switching system for magnetic recording-reproducing apparatus. 3,687,395, 8-29-72, Cl. 242-180.000.
Goshima, Takeshi; and Iwawaki, Yasutaka, to Canon Kabushiki Kaisha. Apparatus for presenting audio and visual informations. 3,687,529, 8-29-72, Cl. 352-27.000.
Goshima, Takeshi; Iwawaki, Yasutaka; and Yutaka, Kohtani, to Canon Kabushiki Kaisha. Magnetic recording-reproducing device capable of automatic repetitive reproduction. 3,702,506, 11-14-72, Cl. 35-35.00c.
Goshima, Takeshi; and Miyasaka, Tooru, to Canon Kabushiki Kaisha. Camera provided with a recording device for a photographed date. 3,703,129, 11-21-72, Cl. 95-1.100.
Goshima, Takeshi, to Canon Kabushiki Kaisha. Magnetic recording reproducing device capable of automatic repetitive reproduction. 3,703,774, 11-28-72, Cl. 35-35.00c.
Goshima, Takeshi; and Kohtani, Yutaka, to Canon Kabushiki Kaisha. Magnetic recording system. 3,704,349, 11-28-72, Cl. 179-100.20r.
Goshima, Takeshi; and Kohtani, Yutaka, to Canon Kabushiki Kaisha. Apparatus for controlling the tension of a magnetic tape. 3,704,400, 11-28-72, Cl. 318-6.000.
Goslin, Gerald E.; Herschberger, Russell R.; and Mach, George J., to General Motors Corporation. Adjustable rear view mirror assembly. 3,667,718, 6-6-72, Cl. 248-487.000.
Gosling, Dickinson, to Labatt, John, Limited. End loading twin beverage carton. 3,677,458, 7-18-72, Cl. 229-27.000.
Gosling, Raymond George; and King, David Henry. Turbulence sensing blood flowmeter. 3,641,994, 2-15-72, Cl. 128-2.05.
Gosman, Neil W., to Maehr Lesnor Manufacturing Corporation. Tap holder. 3,688,324, 9-5-72, Cl. 10-141.00h.
Gosnell, Earl J., to Burroughs Corporation. Methods of preparing and composing relief printing member. 3,645,204, 2-29-72, Cl. 101-401.1.
Gosnell, Earl J.; and Taylor, Jerry H., to Burroughs Corporation. Gravure printing plate making process. 3,675,572, 7-11-72, Cl. 101-401.100.
Gosnell, Thomas Francis: *See—*
Bata, George Thomas; Carruth, Winford Boyd; and Gosnell, Thomas Francis, 3,666,903.
Gosnell, Walter H. Reels for strip material. 3,666,194, 5-30-72, Cl. 242-72.000.
Gosney, William Milton: *See—*
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Goss, Alan Patrick: *See—*
Clements, John Anthony; Goss, Alan Patrick; and Shepherd, Brian, 3,706,890.
Goss, Donald D., to Ideation, Inc. Packaging system. 3,662,514, 5-16-72, Cl. 53-37.
Goss Gas, Inc.: *See—*
Goss, Herbert C., 3,648,934.
Goss, Herbert C., 3,701,463.
Goss, Harry F.: *See—*
Hagemeyer, Hugh J., Jr.; and Goss, Harry F., 3,671,603.
Goss, Herbert C., to Goss Gas, Inc. Welding tip for cutting torch. 3,648,934, 3-14-72, Cl. 239-391.
Goss, Herbert C., to Goss Gas, Inc. Holding and carrying rack for miniature oxygen and fuel gas tanks. 3,701,463, 10-31-72, Cl. 224-45.00r.

Goss, John B.; and Stachowiak, John E., to American Aero Engineering Company. Blast cleaning system. 3,690,067, 9-12-72, Cl. 51-11.000.

Goss, Norman P., 1/2 to Blough, Arthur K. Reduction of solid iron ore to hot metallic iron in a rotary kiln-flash heater-rotary reactor complex. 3,689,251, 9-5-72, Cl. 75-39.000.

Gossard, Earl E.: *See—*
Bickel, John E.; Freres, Clemens H.; Gossard, Earl E.; Britt, James E.; Ortwein, Norman R.; and Swanson, Eric R., 3,680,115.

Gossard, Thomas F., to Standard Kollsman Industries Inc. UHF-VHF varactor tuner amplifying band conversion. 3,696,302, 10-3-72, Cl. 325-432.000.

Gossel, Hartmut; Merkle, Kurt; Memmel, Ferdinand; and Janousch, Erwin, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pigment preparations to be used in non-aqueous systems and process for their manufacture. 3,684,542, 8-15-72, C. 106-308.00q.

Gosselin, Jean Charles, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for optimizing the penetration speed of a drilling tool driven by a motor whose torque decreases with an increasing running speed and apparatus therefor. 3,658,18, 4-25-72, Cl. 173-1.

Gosselink, Eugene P., to Procter & Gamble Company, The. Tetraalkyl sulfoximinium salts as cationic bactericides. 3,636,103, 1-18-72, Cl. 260-551.

Gosselink, Eugene P.; and Laughlin, Robert G., to Procter & Gamble Company, The. Process for synthesizing sulfiminium chloride. 3,654,359, 4-4-72, Cl. 260-551.

Gossen, B., & Co. GmbH: *See—*
Pfaffenberger, Erwin; and Forsterlug, Hans, 3,697,179.

Gossens, Hubert; Kammermeier, Jurgen; and Kloker, Werner, to Farbenfabriken Bayer Aktiengesellschaft. Lightweight building units. 3,679,539, 7-25-72, Cl. 161-159.000.

Gossens, Peter: *See—*
Heinen, Peter; Guthmann, Hans; and Gossens, Peter, 3,641,755.

Gosser, Lawrence Wayne, to Du Pont de Nemours, E. I., and Company. Hydrogenation of 1,3,7-octatriene to 1,6-octadiene and 1,5-octadiene with certain chromium carbonyl catalysts. 3,673,270, 6-27-72, Cl. 260-680.00r.

Gossie, Mijo A.: *See—*
Bustraan, Daniel J.; Gossie, Mijo A.; Sundstrom, Roy N.; and Wisner, William R., 3,690,527.

Gostelow, Daniel William Fredrick, to Bentley Machine Development Company Limited, The. Needle operating means in knitting machines. 3,678,710, 7-25-72, Cl. 66-14.000.

Gostling, Peter Eric, to Kwikform Limited. Scaffolding for use in building construction. 3,656,580, 4-18-72, Cl. 182-82.000.

Gostling, Peter Eric, to Kwikform Limited. Builders' scaffolding. 3,707,304, 12-26-72, Cl. 287-111.000.

Gostomski, Frank T. Cushioned support means. 3,674,104, 7-4-72, Cl. 180-5.00r.

Gostomski, Lawrence A., to Right-Way Mfg. Corporation. Motorcycle having two tandem driving wheels. 3,638,746, 2-1-72, Cl. 180-25.

Gosudarstvenny Naucho-Issledovatelsky I Proektny Institut Onsnovnoi Khimii: *See—*
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Gosudarstvenny Naucho-issledovatelsky Institut tsvetnykh metallov and Belgorodsky Kotlo-Stroitelny zavod: *See—*
Berlin, Zalman Leivikovich; Bagrov, Oleg Nikolaevich; Maslovsky, Gennady Vasilievich; Serkov, Anatoly Gavrilovich; and Yakimovich, Viktor Yakovlevich, 3,673,988.

Gosudarstvenny Sojuzny Institut Po Proektirovanijuagresgatov Staleliieinogo i Prokatnogo Proizvodstva Dlya Chernou Metallurgii: *See—*
Chaikin, Boris Semenovich; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskov, Kirill Mikhailvoch; Borschevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.

Goswami, Jagadish Chanda: *See—*
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Gotal, Joseph; and Conner, Edmond E., to Westinghouse Electric Corporation. Cast-type winding structure for electrical inductive apparatus. 3,705,372, 12-5-72, Cl. 336-182.000.

Gotaverkens Angtekniska AB (Gotaverken Heat Engineering Co., Ltd.): *See—*
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Ostbo, Nils Axel Ambjorn, 3,638,622.

Gotch, Henry Edward: *See—*
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Goteborg, Fagerlund: *See—*
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Goteborgs Bandvaveri AG: *See—*
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Manilla, Charles E.; Honaker, Harold H.; and Gothard, David O., 3,678,567.

Gothard, Edwin S.; and Calfee, John D., to Monsanto Company. Nylon spunbonded fabric-concrete composite. 3,637,457, 1-25-72, Cl. 161-140.

Gothard, Sydney Averill, to Vickers Limited. Apparatus for treating refuse. 3,679,142, 7-25-72, Cl. 241-181.000.

Gothel, Herbert: *See—*
Feichtinger, Hans; and Gothel, Herbert, 3,639,441.

Gothel, Herbert; Feichtinger, Hans; and Tammes, Hans, to Ruhrchemie Aktiengesellschaft. Retarding water evaporation with surface films of oxo alcohols containing orthosilicic acid ester. 3,650,980, 3-21-72, Cl. 252-384.

Gothel, Herbert; and Feichtinger, Hans, to Ruhrchemie Aktiengesellschaft. Lubricants and power transmission fluids on the basis of carboxylic acid esters. 3,674,692, 7-4-72, Cl. 252-56.00s.

Gotheridge, John Ernest; Morgan, Jack; and Jago, Edward John, to Foseco International Limited. Method of producing by using insulating pads in the mold. 3,662,809, 5-16-72, Cl. 164-53.

Goto, Eiichi, to Rikagaku Kenkyusho. Charged-particle-beam focusing and deflecting system utilizing a plurality of electronic lenses for focusing the beam. 3,651,370, 3-21-72, Cl. 315-18.

Goto, Hachiro: *See—*
Fukuda, Masao; Goto, Hachiro; Norota, Susumu; and Fujisawa, Yukimasa, 3,679,533.

Goto, Hachiro, to Teijin Limited. Thermoplastic polyurethanes for adhesives, coatings, and moldings. 3,686,146, 8-22-72, Cl. 260-75.0np.

Goto, Hiroshi: *See—*
Arimura, Ichiro; Goto, Hiroshi; Matsushima, Hiroshi; and Nakao, Yoshikazu, 3,663,863.
Matsushima, Hiroshi; Arimura, Ichiro; Goto, Hiroshi; and Nakao, Yoshikadzu, 3,643,151.

Goto, Jugo: *See—*
Matsui, Yutaka; Mise, Noritoshi; Goto, Jugo; and Yokoo, Makoto, 3,676,402.

Goto, Kazuhiro, to GSW Limited-GSW Limitee. Tub washing machine support structure. 3,669,389, 6-13-72, Cl. 248-22.000.

Goto, Kenjiro. Gas burner nozzle for use in a gas lighter. 3,698,851, 10-17-72, Cl. 431-266.000.

Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Valve for use in gas fueled cigarette lighters. 3,705,785, 12-12-72, Cl. 431-344.000.

Goto, Kimio; and Nakamura, Hiroyasu, to Hitachi, Ltd. Random access discrete address system. 3,647,975, 3-7-72, Cl. 179-15.

Goto, Kunio, to Victor Company of Japan Limited. Continuous scanning magnetic recording and/or reproducing system and apparatus. 3,663,766, 5-16-72, Cl. 179-100.2.

Goto, Masahiro; Noto, Tetsuo; Kato, Nitsuya; Kimura, Morio; and Watanabe, Tadashi, to Kansai Paint Company, Limited. Underwater anti-fouling coating composition. 3,684,752, 8-15-72, Cl. 260-22.00r.

Goto, Minoru: *See—*
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Goto, Mutuo: *See—*
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Goto, Nobuo: *See—*
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Goto, Nobuyuki: *See—*
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Goto, Tadahiko: *See—*
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Goto, Tadashi, to Hitachi, Ltd. Oxygen densitometer for liquid metals. 3,672,206, 6-27-72, Cl. 73-61.000.

Goto, Tetsuo: *See—*
Yoneda, Shoji; Agari, Taiichiro; Goto, Tetsuo; and Taniguchi, Kyuhei, 3,680,515.

Goto, Tokuju: *See—*
Tsuruta, Motohiro; Kimura, Hiroshiro; Koshimo, Akio; Nara, Hirohisa; Goto, Tokuju; Amemiya, Kunio; and Matusaka, Hideki, 3,637,427.

Goto, Totaro, to Industrial Science & Technology, Agency of. Process for the purification of yttrium by solvent extraction. 3,658,486, 4-25-72, Cl. 23-312.

Goto, Yasuo; and Taki, Akio, to Nihon Shokuhin Kako Co., Ltd. Process for preparing pulverized feed for animals. 3,655,396, 4-11-72, Cl. 99-9.

Goto, Yuro. Article handling apparatus. 3,664,522, 5-23-72, Cl. 214-8.5.
Gotoh, Miyuki, to Nissan Motor Company Limited. Method and apparatus for detecting mispick in loom. 3,678,969, 7-25-72, Cl. 139-370.000.
Gotoh, Shinji: *See*—
Horie, Tatsuo; Yamamoto, Syunichi; and Gotoh, Shinji, 3,705,204.
Gotoh, Toshiaki: *See*—
Matsumoto, Shigeru; and Gotoh, Toshiaki, 3,677,605.
Gotoh, Tsuneo: *See*—
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Gotoh, Tsuneyasu: *See*—
Henmi, Zenzo; Sasaki, Tatsuji; Matsui, Yuji; Maegawa, Harumi; Sato, Yoshihiro; Gotoh, Tsuneyasu; and Komatsu, Masahiro, 3,686,042.
Gotoh, Yutaro: *See*—
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Gotohda, Masao; Araki, Kunio; Imamura, Shigeoshi; and Shibabe, Sadami, to Japan Atomic Energy Research Institute. Process for the radiation grafting of butadiene and other co-graft monomers onto polyolefin substrates. 3,634,218, 1-11-72, Cl. 204-159.17.
Gotschel, Hans; and Settele, Helmut, to Wieland-Werke Aktiengesellschaft. Screw connection, more particularly for use in metallic window or door frames. 3,680,620, 8-1-72, Cl. 151-41.750.
Gotschlich, Emil C., to United States of America, Army. Meningococcal polysaccharide vaccines. 3,636,192, 1-18-72, Cl. 424-92.
Gotshall, William W. Using ground carbon in oil phase masterbatching. 3,640,940, 2-8-72, Cl. 260-33.6.
Gotshall, William W. Method of coating finely ground carbon with oils. 3,642,512, 2-15-72, Cl. 106-307.
Gotshall, William W. Reinforcing agent from scrap rubber char. 3,644,131, 2-22-72, Cl. 106-307.
Gotshall, William W., to Marathon Oil Company. Pelleting of oil-coated carbon particles. 3,671,613, 6-20-72, Cl. 264-115.000.
Gotshall, William W., to Marathon Oil Company. Finely divided carbon and the preparation thereof. 3,699,216, 10-17-72, Cl. 423-449.000.
Gotshall, William W., to Marathon Oil Company. Process for the preparation of elastomeric composition containing methanol treated carbon black. 3,704,276, 11-28-72, Cl. 260-41.50r.
Gott, Ernst: *See*—
Umbach, Wilfried; Mehren, Rainer; Stein, Werner; and Gott, Ernst, 3,662,003.
Gott, Hans: *See*—
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Ritter, Klaus; Gott, Hans; Ritter, Josef; and Ritter, Gerhard, 3,699,756.
Gott, Hans; Ritter, Klaus; and Ritter, Josef, to EVG Entwicklungs- und Verwertungsgesellschaft m.b.H. Electric resistance welding machines. 3,692,970, 9-19-72, Cl. 219-56.000.
Gotta, Hans: *See*—
Wagenknecht, Rudolf; Gotta, Hans; Spei, Brigitte; and Gottwald, Karl-Heinz, 3,681,148.
Gottauf, Georg, to Stahlgruber Otto Gruber & Company. Spike for motor vehicle tires. 3,667,528, 6-6-72, Cl. 152-210.000.
Gotte, August. Vacuum flotation device. 3,705,650, 12-12-72, Cl. 210-221.000.
Gotte, Ernst: *See*—
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Gotte, Ernst, to Henkel & Cie G.m.b.H. Skin protective washing and cleansing compositions. 3,640,883, 2-8-72, Cl. 252-545.
Gotte, Ernst; and Heyden, Rudi, to Henkel & Cie G.m.b.H. Skin protective washing and cleansing compositions. 3,649,544, 3-14-72, Cl. 252-152.
Gottesman, Martin: *See*—
Pitchon, Esra; Gottesman, Martin; and Meier, Robert W., 3,655,398.
Gottesman, Martin; and Pascal, Fredric Davis. Method of reducing solid losses in freeze-concentration of coffee extract. 3,684,532, 8-15-72, Cl. 99-199.000.
Gottfried Bischoff Bau Kompl. Gasreinigungs-und Wasserruckkuhlanlagen KG: *See*—
Hausberg, Gerhard; and Hegemann, Karl-Rudolf, 3,631,656.
Gottfried, Reuter; and Ajfro, Fortunato S., to Bucyrus-Erie Company. Control circuit and lock valve for pivot axle lockout cylinders. 3,687,227, 8-29-72, Cl. 180-1.00r.
Gottily, Arthur L., to Monsanto Company. Bobbin handle. 3,650,493, 3-21-72, Cl. 242-118.3.
Gottlieb, Alvin J.; Neyens, Wayne E.; Smith, Robert T.; and Garbark, Roman F., to Gottlieb, D., & Company. Two-player pinball machine. 3,675,927, 7-11-72, Cl. 273-119.00a.
Gottlieb Binder Holzgerlingen: *See*—
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Gottlieb, Alvin J.; Neyens, Wayne E.; Smith, Robert T.; and Garbark, Roman F., 3,675,927.
Gottlieb, David: *See*—
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Gottlieb, Louis. Mobile trash collecting and incinerating apparatus. 3,635,176, 1-18-72, Cl. 110-8.
Gottlieb, Robert. Popcorn popper. 3,665,839, 5-30-72, Cl. 99-238.6.
Gottling, James G.: *See*—
Aponick, Anthony A., Jr.; and Gottling, James G., 3,680,204.
Gottlob, Heinrich: *See*—
Behn, Reinhard; Gottlob, Heinrich; Haid, Hans; Hoyler, Gerhard; and Kessler, Hartmut, 3,670,378.
Gottron, Richard N.; and Gaylord, Wilmer, to United States of America, Army. Pneumatic thermometer. 3,706,227, 12-19-72, Cl. 73-339.00a.
Gottschalk, Lawrence A., to Union Carbide Corporation. Combination label for packaged product and printed on removal decal. 3,638,340, 2-1-72, Cl. 40-2.
Gottschall, Gernot, to Morat, Franz, G.m.b.H., Firma. Film-driving roller with device for stopping the drive mechanism if the film is broken. 3,674,192, 7-4-72, Cl. 226-11.000.
Gottschall, Gernot, to Morat, Franz, GmbH, Firma. Film-driving roller with device for stopping the drive mechanism if the film is overloaded. 3,696,982, 10-10-72, Cl. 226-25.000.
Gottsching, Herbert, to Mayer & Cie. Pattern installation for circular knitting machines. 3,653,229, 4-4-72, Cl. 66-50.
Gottschlich, Alois; and Leverenz, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Disazo dyestuffs. 3,705,145, 12-5-72, Cl. 260-152.000.
Gottwald, Karl-Heinz: *See*—
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Gottwald, Leo, K.G.: *See*—
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Gottweis, Gert; Herrlich, Michael; Klas, Gunther; Schober, Joachim; Thiede, Peter; and Zachaus, Eberhard, to Ingenieurburo fur Rationalisierung der Suss- und Dauerbackwarenindustrie. Apparatus for packing bags in boxes or cartons. 3,676,978, 7-18-72, Cl. 5-59.00r.
Gotz, Eckart: *See*—
Wohr, Rolf; and Gotz, Eckart, 3,702,962.
Gotz, Hans: *See*—
Wilfert, Karl; and Gotz, Hans, 3,635,517.
Gotz, Hans, to Daimler-Benz Aktiengesellschaft. Roof top for motor vehicles. 3,670,640, 6-20-72, Cl. 98-2.180.
Gotz, Manfred: *See*—
Failli, Amedeo; and Gotz, Manfred, 3,707,472.
Freter, Kurt; Gotz, Manfred; Oliver, James T.; and Zeile, Karl, 3,635,974.
Gotze, Johannes: *See*—
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Gotzenberger, Rudibert, to Flitsch, Ernst. Circulating valves. 3,640,311, 2-8-72, Cl. 137-137.4.
Goualard, Jacques: *See*—
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Goud, Eric G.: *See*—
Searle, Eric H.; and Goud, Eric G., 3,648,164.
Goudy, Clarence H. Water vehicle. 3,650,234, 3-21-72, Cl. 114-16.
Goudy, William E., to Armco Steel Corporation. Folding crane boom. 3,664,516, 5-23-72, Cl. 212-46.
Goue, Bernard; Guitard, Louis; and Edon, Claude, to Compagnie Generale d'Electricite. Method of activating nickel based catalysts. 3,645,799, 2-29-72, Cl. 148-2.
Gouger, Leonard Joseph: *See*—
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Gough, Geoffrey R.: *See*—
Maguire, Mary H.; Gough, Geoffrey R.; and Michal, Frank, 3,678,162.
Gough, John Richard Cox; Meaden, Geoffrey William; and Price, Michael Stuart Thomas, to United Kingdom Atomic Energy Authority. Manufacture of nuclear fuel elements. 3,668,284, 6-6-72, Cl. 264-.500.
Gough, Stanley T. D., to Mobil Oil Corporation. Use of meta-substituted alkyl or alkenyl benzoic acid esters as selective post-emergence carbgrass herbicides. 3,681,045, 8-1-72, Cl. 71-107.000.
Gough, Warren G., to Sylvania Electric Products, Inc. Digital communication system. 3,678,391, 7-18-72, Cl. 325-55.000.
Gouirand, Rene, to Mercandante, Joseph. Combined vehicle chassis and air suspension system. 3,689,054, 9-5-72, Cl. 267-68.000.
Gouirand, Rene, to Mercadante, Joseph. Air suspension with saddle members. 3,692,325, 9-19-72, Cl. 280-104.50a.
Goujard, Marie Pierre, to Compagnie Gervais Danone Hauts de Seine. Manufacture of cheese curd. 3,698,918, 10-17-72, Cl. 99-116.000.
Goukon, Atushi: *See*—
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Goulandris, George Constantine, to American Cyanamid Company. Process for oxidizing 2-mercaptobenzothiazole. 3,654,297, 4-4-72, Cl. 260-306.5.
Gould, Bruce Michael, "Automatic" Sprinkler Corporation of America. Apparatus and process for treating hides. 3,670,534, 6-20-72, Cl. 69-30.000.
Gould, Eric G.: *See—*
Davis, Edward P.; and Gould, Eric G., 3,649,729.
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Graifer, Valery Isaakovich; Komarov, Alexandr Ivanovich; Lysenko, Vladimir Dmitrievich; Mingareev, Ravkhat Shagimardanovich; and Mukharsky, Enver Davydovich. Method for the development of oil fields having zonally non-uniform collector properties. 3,664,41, 5-23-72, Cl. 166-245.
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Grain, Clark F., to Itek Corporation. Image recording material containing titanium dioxide, and zinc oxide in minor amount and the use thereof. 3,706,560, 12-19-72, Cl. 96-48.000.
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Durand, Harry Walter, 3,655,644.
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Grainger, John W., to Olympic General Products Proprietary Limited. Method of making reinforced belting. 3,684,606, 8-15-72, Cl. 156-137.000.
Grainger, Kenneth Frederick: *See—*
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Grakauskas, Vytautas, to Aerojet-General Corporation. Method of preparing fluorine perchlorate. 3,639,102, 2-1-72, Cl. 23-203.
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Grakauskas, Vytautas, to Aerojet-General Corporation. Synthesis of tetrafluorohydrazine. 3,698,864, 10-17-72, Cl. 23-205.000.
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Grall , Kenneth J.: *See—*
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Gram, Hans: *See—*
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Gram, Hans, to Brodrene Gram A/S. Table for rotating freezing apparatus. 3,675,443, 7-11-72, Cl. 62-345.000.
Gram, Herbert R., to Transcience Inc. Radio signal initiated remote switching system. 3,665,475, 5-23-72, Cl. 343-225.
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Comte, Bernard; and Cler, Victor, 3,706,839.
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Gramall Industries Proprietary Limited: *See—*
Roach, Ronald John; and Mitchell, Graham George, 3,654,955.
Gramann, Wolfgang, to Telefunken Patentverwertungsgesellschaft m.b.H. Method of providing individual bodies on a basic body. 3,658,618, 4-25-72, Cl. 156-235.
Gramer, Gottfried, to Siemens Aktiengesellschaft. Gas purifying apparatus. 3,658,485, 4-25-72, Cl. 23-284.
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Gramera, Robert E.; and Hicks, James P., to CPC International Inc. Emulsion polymerization method and resultant aqueous latex. 3,632,535, 1-4-72, Cl. 260-17.4.
Gramera, Robert Eugene, to CPC International Inc. Sugar dithioacetal polydisulfides and process of making. 3,657,167, 4-18-72, Cl. 260-9.
Gramkow, Asger; and Hyldal, Jorgen, to Danfoss A/S. Starting means for a single-phase asynchronous motor. 3,696,281, 10-3-72, Cl. 318-221.00e.
Gramlich, Fritz, to Spitzer, Ludwig, sen. KG. Bulk transporter. 3,679,082, 7-25-72, Cl. 214-518.000.
Gramlich, Otto, to Heidelberger Druckmaschinen Aktiengesellschaft. Sheet-stripping device in printing presses. 3,635,464, 1-18-72, Cl. 271-18.
Gramling, Wesley A.: *See—*
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Grams, Gerhard: *See—*
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Gramza, Eugene P.; and Schreiber, David D., to Eastman Kodak Company. Photographic transfer elements and processes for preparing and using them. 3,671,240, 6-20-72, Cl. 96-29.00r.
Gramza, Eugene P.; and Schreiber, David D. Photoconductive cocrystalline complex of pyrylium dye and polymer used in electrophotography. 3,684,502, 8-15-72, Cl. 96-1.600.
Grana, Vito. Exercising stand. 3,679,203, 7-25-72, Cl. 272-60.000.
Granatek, Alphonse Peter: *See—*
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Kaser, Walter Edwin; Kaplan, Murray Arthur; and Granatek, Alphonse Peter, 3,634,586.
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Granberg, Albert J. Positive displacement fluid translating device. 3,683,694, 8-15-72, Cl. 73-259.000.
Granberg, Georgy Ljubimovich: *See—*
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Grand Haven Stamped Products: *See—*
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Grand, John Richard, III, to Du Pont de Nemours, E. I., and Company. Ultrasonic splicing apparatus. 3,687,787, 8-29-72, Cl. 156-507.000.
Grand, Marcel: *See—*
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Grand, Paul S.; Falivene, Pasquale Joseph; and Furgal, Henry P., to Colgate-Palmolive Company. Fiber conditioning article. 3,698,095, 10-17-72, Cl. 34-9.000.
Grand, Paul Sheldon; and Becker, Joseph Gerald, to Colgate-Palmolive Company. Oral hygiene with aminopolyureylene resin. 3,639,570, 2-1-72, Cl. 424-54.
Grand, Paul Sheldon; and Wixon, Harold Eugene, to Colgate-Palmolive Company. Fabric-softener compositions. 3,703,480, 11-21-72, Cl. 252-524.000.
Grand, Rene, to Compagnie des Ateliers et Forges de la Loire. Process for manufacturing plated products. 3,695,337, 10-3-72, Cl. 164-100.000.
Grand, Stanley: *See—*
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Grandel, Leonard F.; Schluckebier, Floyd A.; and Kimberlin, Dan R., to General Motors Corporation. Steering column assembly support. 3,643,981, 2-22-72, Cl. 280-87.
Grandgirard, Pierre J., to Societe Industrielle Bull-General Electric (Societe Anonyme). Fabrication of printed circuits. 3,638,605, 2-1-72, Cl. 118-50.1.
Grandia, Johannes; and Rohr, Robert Lewis, to International Business Machines Corporation. Precision cutting apparatus and method of operation therefor. 3,674,004, 7-4-72, Cl. 125-16.000.
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Grandin, Robert. Push-button control device for a radio receiver. 3,636,776, 1-25-72, Cl. 74-10.33.
Grandjean, Theo; Zumstein, Juan Ulrih; and Liechti, Alfred, to Liechti, Fred, Aktiengesellschaft. Method and apparatus for monitoring and stimulating the activity of the heart. 3,638,656, 2-1-72, Cl. 128-419.
Grandle, James Arthur, Jr., to Bell Telephone Laboratories, Incorporated. Coin station timing test arrangement. 3,691,320, 9-12-72, Cl. 179-175.200.
Grandle, James Arthur, Jr., to Bell Telephone Laboratories, Incorporated. Coin station conductor leakage test arrangement. 3,694,587, 9-26-72, Cl. 179-175.20r.
Grandmaison, John Paul: *See—*
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Grandpierre, Robert; and Robert, Alexandre, to Rolland, Albert, S.A. Antibiotic substance and process for the extraction of such an antibiotic substance from a new strain of pseudomonas. 3,705,237, 12-5-72, Cl. 424-115.000.
Grandy, Andrew J.; and Goldstein, Sidney, to United States of America, Army. Reactionless flare launching apparatus. 3,633,509, 1-11-72, Cl. 102-35.4.
Grandy, Andrew J. Wire forming apparatus. 3,677,309, 7-18-72, Cl. 140-149.000.
Grandy, Andrew J. Method of making ammunition. 3,706,256, 12-19-72, Cl. 86-1.000.
Grane, Henry R.; and Katz, Isadore Edward, to Atlantic Richfield Company. Process to produce high purity isobutylene. 3,665,048, 5-23-72, Cl. 260-682.
Graneau, Peter; and Smith, Joseph L., Jr., to Simplex Wire and Cable Company. Coolant circuit for resistive cryogenic electric power transmission line. 3,646,243, 2-29-72, Cl. 174-15.
Graneau, Peter, to Interpace Corporation, mesne. High voltage surge diverter. 3,654,520, 4-4-72, Cl. 317-61.
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Grangaard, Orrin H., Jr.; and Selig, Ernest T., to Bison Instruments, Inc. Soil strain gage. 3,678,739, 7-25-72, Cl. 73-88.50r.
Grange, Howard L. Roof construction providing air flow from eave to ridge. 3,683,785, 8-15-72, Cl. 98-35.000.
Grange, Kenneth H., to Maruzen Sewing Machine Co., Ltd. Sewing machine with combined accessory receptacle and auxiliary bed. 3,673,972, 7-4-72, Cl. 112-258.000.
Granger, Anthony F., to Coal Industry (Patents) Limited. Method of manufacturing unitary porous carbon bodies. 3,663,171, 5-16-72, Cl. 23-209.100.
Granger, Camille: *See—*
Buisson, Michel; Repiquet, Gerard; and Granger, Camille, 3,637,537.
Granger, Charles R. Method and apparatus for demonstrating photometric procedures. 3,695,770, 10-3-72, Cl. 356-180.000.
Granger, Edward H., Jr., to Phillips, F. C., Inc. Golf shoe cleat and support therefor. 3,685,175, 8-22-72, Cl. 36-67.00r.
Granger, James E.: *See—*
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Granger, Maurice. Apparatus adapted to form collars around openings previously executed in plates or tubes. 3,670,547, 6-20-72, Cl. 72-75.
Granger, Roger A. Hydroplane boat. 3,648,640, 3-14-72, Cl. 114-66.5.
Granger, Wallace H. Rotary newspaper printing press having automatic interrupters for press cylinders. 3,638,568, 2-1-72, Cl. 101-219.
Granieri, George J. Control system. 3,688,130, 8-29-72, Cl. 307-252.00f.
Granieri, George John; and Lefkowitz, Edward Herbert, to Tappan Company, The, mesne. Control apparatus for air conditioning and like systems. 3,700,914, 10-24-72, Cl. 307-141.000.
Granirer, Louis W.; deceased (by Granirer, Minna B.; Granirer, Samuel; and Pearlman, Robert I.; executors), to Granirer, Minna B. Reaction products of placenta extracts and penicillin. 3,671,627, 6-20-72, Cl. 424-105.000.
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Granito, Charles E., to Diamond Shamrock Corporation. Polychloro hydroxy derivatives of monocarboxy pyridines. 3,651,070, 3-21-72, Cl. 260-295.
Grankowski, Eugene E.; and Pappas, Lambros A., to Wyman-Gordon Company, mesne. Hydraulic control system for a metal forming press. 3,668,920, 6-13-72, Cl. 72-455.000.
Granning, Ole, to Granning Suspensions, Inc. Vehicle suspension. 3,689,102, 9-5-72, Cl. 280-112.00r.
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Grannis, Norman J., to Computer Design Corporation. Add subtract apparatus for binary coded decimal numbers. 3,694,642, 9-26-72, Cl. 235-170.000.
Granqvist, Carl-Erik, to AGA Aktiebolag. Apparatus for digitally representing angular displacement. 3,634,838, 1-11-72, Cl. 340-196.
Granqvist, Carl-Erik, to AGA Aktiebolag. Apparatus for indicating errors in inclination for inertial navigation. 3,672,229, 6-27-72, Cl. 73-504.
Granqvist, Carl-Erik, to Aga Aktiebolag. Instrument for measuring distance. 3,677,646, 7-18-72, Cl. 356-4.000.
Granqvist, Carl-Erik, to Aga Aktiebolag. Distance measuring device. 3,680,101, 7-25-72, Cl. 343-14.000.
Granqvist, Carl-Erik, to AGA Aktiebolag. Instrument for combined angular and distance measurements. 3,680,964, 8-1-72, Cl. 356-141.000.
Granqvist, Carl-Erik, to AGA Aktiebolag. Digital distance measuring instrument. 3,684,375, 8-15-72, Cl. 356-5.000.
Granrath, Gunter, to Kortenbach & Rauh Kommanditgesellschaft. Pocket umbrella with three-sectional stick. 3,643,674, 2-22-72, Cl. 135-25.
Granryd, Eric G. U., to American Gas Association, mesne. Internal combustion heat engine and process. 3,677,026, 7-18-72, Cl. 62-115.000.
Granryd, Eric G. U., to American Gas Association, mesne. Internal combustion heat engine and process. 3,677,027, 7-18-72, Cl. 62-115.000.
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Granstrom, Staffan N.; and Goransson, Ingemar E., to Allmanna Svenska Elektriska Aktiebolaget. Electromagnetic valve means for tapping molten metal. 3,701,357, 10-31-72, Cl. 137-81.500.
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Grant, Benjamin M. Harvesting attachment. 3,646,737, 3-7-72, Cl. 56-106.
Grant, Benton H., to Grant Airmass Corporation. Dual layer cellular inflatable pad. 3,674,019, 7-4-72, Cl. 128-33.000.
Grant, Bernard Carrington; and Reilly, John F., to General Tire & Rubber Company, The. Replaceable seat insert and process of making. 3,647,260, 3-7-72, Cl. 297-219.
Grant, Charles H., to Dow Chemical Company, The. Method for preparing gelled slurry explosive compositions containing distinct liquid and solid phases. 3,639,184, 2-1-72, Cl. 149-44.
Grant, Charles H., to Dow Chemical Company, The. Method and apparatus for delivering thickened blasting agents. 3,690,213, 9-12-72, Cl. 86-20.00c.
Grant, David C.; and Lamson, Byron A. Berry picking machine. 3,675,406, 7-11-72, Cl. 56-330.000.
Grant, Donald W., to Leesona Corporation. Yarn handling. 3,643,882, 2-22-72, Cl. 242-36.
Grant, Everette A., Sr. Furniture with disconnectable parts. 3,658,381, 4-25-72, Cl. 297-440.
Grant, Gerald F.: *See*—
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Grant, Howard E. Automobile washing unit. 3,689,954, 9-12-72, Cl. 15-21.00e.
Grant, Ian James, to British Petroleum Company Limited, The, mesne. Anti-overspill container filling apparatus. 3,662,792, 5-16-72, Cl. 141-198.
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Grant, John; and Fisher, Martin John, to United Kingdom Atomic Energy Authority. Fluid distributors. 3,661,163, 5-9-72, Cl. 137-81.500.
Grant, John; and Longley, Miner R., to Aerotronic Associates, Inc. Cooling hood for supporting printed circuit boards during burn-in. 3,697,815, 10-10-72, Cl. 317-100.000.
Grant, John M., to International Telephone and Telegraph Corporation. Tubular photocell with secondary emission from internal surface. 3,634,690, 1-11-72, Cl. 250-207.
Grant, John M.; and Stolzy, Albert D., to International Telephone and Telegraph Corporation. Coordinate detector. 3,669,550, 6-13-72, Cl. 356-152.000.
Grant, John M., to International Telephone and Telegraph Corporation. Image intensifier with electroluminescent phosphor. 3,675,028, 7-4-72, Cl. 250-213.0vt.
Grant, Jon H.; and Bales, Walter D., to Hughes Aircraft Company. Precision fast analog switch. 3,641,365, 2-8-72, Cl. 307-241.
Grant, Lewis F., to Clark Equipment Company. Vehicle suspension. 3,698,737, 10-17-72, Cl. 280-112.000.
Grant, Louis A., to Grant, Louis A., Inc. Ladle skimmer. 3,659,833, 5-2-72, Cl. 266-37.
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Grant, Michael P.; and Freeh, Edward J., to Industrial Nucleonics Corporation. Grinding mill method and apparatus. 3,697,003, 10-10-72, Cl. 241-24.000.
Grant, Norman H.: *See*—
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Grant, Perry J., to Klamer, Reuben; d/b/a Klamer, Reuben, & Associates. Game with free fall playing pieces and selectively placed support pegs. 3,655,191, 4-11-72, Cl. 273-95.
Grant, Peter H., to Bell & Howell Company. Film retaining insert for reels. 3,675,869, 7-11-72, Cl. 242-74.000.
Grant, Peter M.; Fulkerson, Brazelton; and Mench, John W., to Eastman Kodak Company. Rumen stable medicament and/or nutrient compositions. 3,697,640, 10-10-72, Cl. 424-35.000.
Grant, Ralph M., to G. C. Optronics Inc. Method for analyzing the joinder between a pair of abutting members. 3,645,129, 2-29-72, Cl. 73-67.
Grant, Ronald D., to JFD Electronics Corporation. Broadside log periodic antenna. 3,696,437, 10-3-72, Cl. 343-792.500.
Grant, Ronald D., to JFD Electronics Corporation. Miniature TV antenna. 3,707,681, 12-26-72, Cl. 325-368.000.
Grant, Roy Arthur, to Tasman Vaccine Laboratory Limited. Processes for the purification of waste effluent. 3,697,419, 10-10-72, Cl. 210-27.000.
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Grante, Ralph; and Andre, Byron, to Dynamic Tools Ltd. Hydraulically operated hand tools. 3,685,151, 8-22-72, Cl. 30-134.000.
Grantham, Frederick W.; and Mc Clain, Edward L. Laundry folder with wicket clamp. 3,684,274, 8-15-72, Cl. 270-62.000.
Grantham, Frederick W., to Mecca Bros. Inc. Sensing means for folder. 3,692,303, 9-19-72, Cl. 270-61.000.
Grantham, Frederick W. Continuous washing apparatus. 3,693,382, 9-26-72, Cl. 68-96.000.
Grantham, Max Edward, to Tecalemit (Engineering) Limited. Cam operated fluid pumps. 3,632,236, 1-4-72, Cl. 417-471.
Grantham, Max Edward, to Tecalemit (Engineering) Limited. Chassis lubrication systems. 3,667,574, 6-6-72, Cl. 184-7.00r.
Grantham, Paulette. Laundry towel rolling means. 3,695,540, 10-3-72, Cl. 242-65.000.
Grantham, Rodney E.; Malloy, John H.; and Warnock, Frederick E., to United States of America, Navy. Ordnance fuze encoding and decoding system. 3,667,392, 6-6-72, Cl. 102-70.20r.
Grants, Paul R., to I.F.S. Incorporation. Preformed enclosed insulating filler and insulating strip. 3,704,562, 12-5-72, Cl. 52-396.000.
Granville-Phillips Company: *See*—
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Granzow, Daniel B.; Gawron, Stanley A.; Graff, William P.; and Swain, Pervis A., to Addressograph-Multigraph Corporation. Graphic recorder. 3,632,201, 1-4-72, Cl. 355-3.
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Grunfeld, Maximilien; and Bodin, Jean-Marie, 3,649,683.
Puthet, Robert Raphael, 3,646,093.
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Grasby, James L., to Saf-T-Boom Corporation. Guard for insulating booms. 3,653,517, 4-4-72, Cl. 212-1.
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Greanias, Evon C.; and Levine, Wilbur J., to International Business Machines Corporation. Voice entry system. 3,641,500, 2-8-72, Cl. 340-152.

Greason, William Wallace, III: *See—*
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Bailey, Bruce L., 3,666,847.
Berrs, Raymond M., 3,633,835.
Carr, Peter, 3,682,797.
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Joo, Louis A.; and Bryan, Loren A., 3,681,401.
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Great Northern Nekoosa Corporation: *See—*
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Great Plains Bag Co.: *See—*
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Great Salt Lake Minerals and Chemicals Corporation: *See—*
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Great Western Sugar Company, The: *See—*
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Greatbatch, Wilson, to Memnen-Greatbatch Electronic, Inc. Interrogated telemetry alarm system for physiological monitoring. 3,639,907, 2-1-72, Cl. 340-150.

Greatbatch, Wilson, to Medtronic, Inc. Multi-mode cardiac pacer with P-wave and R-wave sensing means. 3,648,707, 3-14-72, Cl. 128-419.

Greathouse, Jack F., to Mack Trucks, Inc. Engine air manifold. 3,667,432, 6-6-72, Cl. 123-52.00m.

Greatrix, Graham Roland: *See—*
Quayle, Joshua Creer; Greatrix, Graham Roland; and Coombe, Ronald Alan, 3,664,306.
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Greaves, Derek Vincent. Aerated gas burners. 3,685,949, 8-22-72, Cl. 431-349.000.

Greaves, John Alfred; and Shelley, Steven Victor, to G. K. N. Sankey Limited. Improvements in or relating to cup holders for beverage dispensing machines. 3,648,889, 3-14-72, Cl. 221-11.

Greaves, Reginald Ian: *See—*
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Greaves, Richard William: *See—*
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Greaves, Wellington N., to United Aircraft Corporation. Vapor deposition of alloys. 3,655,430, 4-11-72, Cl. 117-107.

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Grebbell, John; and Symes, Thomas James, to BP Chemicals Limited. Production of olefins. 3,689,587, 9-5-72, Cl. 260-683.15e.

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Grebell, John; Heljula, Kuldar; and Martin, David Eric, to British Petroleum Company Limited, The. Production of hexenes. 3,632,663, 1-4-72, Cl. 260-683.15.

Grebene, Alan B.: *See—*
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Greco, Frank. Hairpiece. 3,688,779, 9-5-72, Cl. 132-53.000.
Greco, Michael R. Multi-tape dispenser. 3,672,550, 6-27-72, Cl. 225-34.
Greco, Nicholas P., to Koppers Company, Inc. Preparation of dihydrocatechol from cyclohexanone. 3,679,753, 7-25-72, Cl. 260-586.00b.
Greco, Thomas E. Styling valet. 3,698,404, 10-17-72, Cl. 132-79.000.
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Green, Brian Noel; and Barber, Michael, to Associated Electrical Industries Limited. Mass spectrometer scanning. 3,689,764, 9-5-72, Cl. 250-41.9me.
Green, Burton M. Double disc clipper. 3,631,658, 1-4-72, Cl. 56-11.3.
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Green, Charles J., Jr., to Xerox Corporation. Deinking of waste xerographic copy paper. 3,635,789, 1-18-72, Cl. 162-5.
Green, Chester, 1/2 to Hanscom, Genevieve I., 1/2 to Hanscom, Genevieve I., Magnuson, Robert, Thomson, Lois J.; trustees of the estate of and Magnuson, Roy M. Dual shuffle feed. 3,651,925, 3-28-72, Cl. 198-218.
Green, Clifford L. Incinerator. 3,703,732, 11-28-72, Cl. 4-131.000.
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Green, David T.; and Bryan, Graham W., to United States Surgical Corporation. Skin stapler. 3,643,851, 2-22-72, Cl. 225-19.
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Green, Donald R., to United States of America, Atomic Energy Commission. Transient thermal method and means for nondestructively testing a sample. 3,672,204, 6-27-72, Cl. 73-15.00a.
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Green, Edward J. Apparatus and method for dental operations. 3,634,937, 1-18-72, Cl. 32-1.
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Green, Gloyd W. Safety lock for camper doors. 3,636,745, 1-25-72, Cl. 70-281.
Green, Harold A., to Air Products and Chemicals, Inc. Epoxy resin and imidazole alkyl acid phosphate fiber treatment. 3,632,427, 1-4-72, Cl. 117-161.
Green, Harold A., to Air Products and Chemicals, Inc. Epoxy silane-imidazole treatment of reinforcement material. 3,637,417, 1-25-72, Cl. 117-76.
Green, Harold A.; and Petrella, Robert G., to Air Products and Chemicals, Inc. Low temperature tertiary amine accelerators. 3,642,649, 2-15-72, Cl. 252-182.
Green, Harold A., to Air Products and Chemicals, Inc. Epoxy resin curing with imidazole alkyl acid phosphate salt catalyst. 3,642,698, 2-15-72, Cl. 260-47.
Green, Harry J., Jr., to General Dynamics Corporation. Method for sealing microelectronic device packages. 3,648,357, 3-14-72, Cl. 29-492.
Green, Harry W.; and Dietrich, Melvin L., to Standard Products Company, The. Waste disposal system. 3,635,276, 1-18-72, Cl. 159-29.
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Green, Harry W., to Standard Products Company, The. Apparatus for multi-stage treatment of waste material. 3,666,106, 5-30-72, Cl. 210-201.000.
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Green, Jeff, to Agfa-Gevaert Aktiengesellschaft. Accessory for optically reversing the image in copy cameras. 3,690,761, 9-12-72, Cl. 355-43.000.
Green, John L.; and Nelson, Robert. Electrical connectors. 3,673,546, 6-27-72, Cl. 339-89.00c.
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Green, Joseph, to Wolverine Toy Company, Inc. Rotating game with peripheral catching members. 3,642,281, 2-15-72, Cl. 273-110.
Green, Joseph; and Brooks, Stanley, to Vitamins Limited. Preparation of 3,6 diaminopseudocumene. 3,654,366, 4-4-72, Cl. 260-580.
Green, Joseph; Roth, Shirley H.; and Seipel, John J., to Cities Service Company. Intumescent coating composition. 3,703,487, 11-21-72, Cl. 260-2.5fp.
Green, Joseph A., to International Telephone and Telegraph Corporation. Frequency analyzer. 3,641,445, 2-8-72, Cl. 328-140.
Green, Kelvin D., to Parker-Hannifin Corporation. Tube installation method. 3,646,662, 3-7-72, Cl. 29-421.
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Green, Larry Q.; and Light, Larry L., to Du Pont de Nemours, E. I., and Company. Method for coating glass. 3,667,926, 6-6-72, Cl. 65-60.000.
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Green, Lawrence E.; and McDermott, William G., to McDermott & Green, Inc. Variable displacement holder. 3,698,132, 10-17-72, Cl. 47-41.130.

Green, Lawrence L., to Modern Metallics, Inc. Method of producing a decorative finish on metal objects. 3,707,445, 12-26-72, Cl. 204-18.000.

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Green, Martin, to Girling Limited. Dual hydraulic braking systems for vehicles. 3,672,732, 6-27-72, Cl. 303-84.00a.

Green, Martin. Boltless gym set. 3,704,849, 12-5-72, Cl. 248-165.000.

Green, Milton. Optical range discriminator for laser TV camera. 3,644,666, 2-22-72, Cl. 178-6.8.

Green, Mino, to Zenith Radio Corporation. Acoustic surface wave transmission device with amplification. 3,676,788, 7-11-72, Cl. 330-5.500.

Green, Nathan; and Keller, John C., to United States of America, Agriculture. Cis-7-hexadecen-1-ol acetate as an attractant for adult make pink bollworm moths. 3,702,358, 11-7-72, Cl. 424-84.000.

Green, Norman; Greenhouse, Harold M.; Vergara, William C.; and McGill, Robert L., Jr., to Bendix Corporation. Temperature controlled microcircuits. 3,641,372, 2-8-72, Cl. 307-310.

Green, Norman; and Vergara, William C. Rapid acting abrasive trimmer for micro-electronic devices. 3,691,695, 9-19-72, Cl. 51-8.000.

Green, Oscar: *See*—
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Green, Raymond J., to General Motors Corporation. Anti-lock brake system with wheel speed comparator. 3,687,242, 8-29-72, Cl. 188-181.00c.

Green, Richard F.; Scray, Eugene J., Jr.; and Wilder, Donald L., to International Business Machines Corporation. Controllable digital pulse generator and a test system incorporating the pulse generator. 3,659,087, 4-25-72, Cl. 235-151.3.

Green, Richard R.: *See*—
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Green, Robert B.; Newsom, Raymond A.; and Tromblee, Gene L., to Monsanto Company. Method for removing color forming impurities from hydrocyanic acid. 3,689,215, 9-5-72, Cl. 423-379.000.

Green, Ronald A. Combination container-dispenser for viscous materials. 3,643,837, 2-22-72, Cl. 222-101.

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Green, Thomas A.; and Ross, Charles W., to Leeds & Northrup Company. Automatic joint probability calculation of noise corrupted process measurements. 3,633,009, 1-4-72, Cl. 235-151.3.

Green, Thomas A.; and Ross, Charles W., to Leeds & Northrup Company. System for controlling a single control variable by proportioning a plurality of related manipulated variables. 3,691,354, 9-12-72, Cl. 235-150.100.

Green, Thomas C.: *See*—
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Green, Victor J. Trampoline. 3,677,368, 7-18-72, Cl. 182-139.000.

Green, Virginia L. Cooking utensil and protective support. 3,636,860, 1-25-72, Cl. 99-410.

Green, Warren E.; and Perry, George H., to Ethyl Corporation. Auxiliary equipment for blending. 3,661,540, 5-9-72, Cl. 44-2.

Green, Wesley R.: *See*—
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Green, William B., to Phillips Petroleum Company. Controlling polymerization of comonomer in copolymerization. 3,658,777, 4-25-72, Cl. 260-88.2.

Green, William E., Jr., to Citizens and Southern National Bank, The. Apparatus for packaging coins. 3,678,650, 7-25-72, Cl. 53-159.000.

Green, William I. Roundabout. 3,661,386, 5-9-72, Cl. 272-33.00r.

Green, William R., to Atomic Energy of Canada Limited. Irradiation apparatus for providing a high initial irradiation of the product. 3,673,409, 6-27-72, Cl. 250-106.00r.

Green, William S.: *See*—
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Greenacre, Paul G. Dental care appliance. 3,672,377, 6-27-72, Cl. 132-92.00r.

Greenawalt, Fred A., to Venture Products Corporation. Reversing valve assembly. 3,650,287, 3-21-72, Cl. 137-106.

Greenawalt, Monte H. Elevated traction pillow. 3,648,308, 3-14-72, Cl. 5-338.

Greenawalt, Robert Gordon, to Sealol, Inc. Sealing ring retention device. 3,689,083, 9-5-72, Cl. 277-40.000.

Greenaway, David L.; and Russell, John P., to RCA Corporation. High fidelity readout of a hologram performing the function of a complex wave modifying structure. 3,658,403, 4-25-72, Cl. 350-3.5.

Greenaway, David L., to RCA Corporation. Complex wave modifying structure holographic system. 3,658,404, 4-25-72, Cl. 350-3.5.

Greenaway, David Leslie; and Russell, John Patrick, to RCA Corporation. Holographic identification system. 3,643,216, 2-15-72, Cl. 340-146.3.

Greenbank Engineering Company Limited: *See*—
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Greenbaum, Sheldon B.; Griffith, Richard; and Klein, Howard C., to Diamond Shamrock Corporation. Processes for preparing and/or purifying chlortetracycline hydrochloride and chlortetracycline neutral base. 3,632,647, 1-4-72, Cl. 260-559.

Greenbaum, Sheldon B.; Weil, Edward D.; and Newcomer, Jack S., to Hooker Chemical Corporation. Halogen containing tricyclic compounds. 3,687,831, 8-29-72, Cl. 204-158.000.

Greenbaum, William H.: *See*—
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Greenberg, Allan: *See*—
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Greenberg, Allen A.: *See*—
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Greenberg, Jacob, to United States of America, National Aeronautics and Space Administration. Method of making EMF cell. 3,635,765, 1-18-72, Cl. 136-83.

Greenberg, Jacob; and Whitaker, Douglas C., to Anti-Pollution Systems, Inc. Treatment of sewage and other contaminated liquids with recovery of water by distillation and oxidation. 3,642,583, 2-15-72, Cl. 203-11.

Greenberg, Jacob, to Anti-Pollution Systems, Inc. Method of catalytically inducing oxidation of carbonaceous materials by the use of molten salts. 3,647,358, 3-7-72, Cl. 23-2.

Greenberg, Jerome S., to Regal China Corporation. Supporting carriage for, and method of casting in, molds for the production of ceramic hollow ware. 3,691,266, 9-12-72, Cl. 264-86.000.

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Greenberg, Myron M.; and Macintyre, Steven A., to United States of America, Navy. System for generating compensating signals for magnetic effects of aircraft on mad system. 3,697,869, 10-10-72, Cl. 324-43.00r.

Greenberg, Samuel: *See*—
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Greenberg, Samuel; and Jacobs, Abe, to Greenberg, Samuel. Semi-automatic apparatus for molding plastic copings and similar articles. 3,682,571, 8-8-72, Cl. 425-193.000.

Greenberg, Samuel; and Jacobs, Abe, to Greenberg, Samuel. Manually operable apparatus for molding plastic copings and similar articles. 3,682,580, 8-8-72, Cl. 425-193.000.

Greenberg, Samuel. Mouthguard with lip protector. 3,692,025, 9-19-72, Cl. 128-136.000.

Greenberg, Seymour: *See*—
Russell, Alan F.; Greenberg, Seymour; and Moffatt, John G., 3,658,787.

Greenberg, Walter H.; and Voelker, Walter D. Ejecting giant articles from injection mold. 3,671,159, 6-20-72, Cl. 425-155.000.

Greenberger, Joseph Irwin; and Ciochetto, Joseph James, to United Engineering and Foundry Company. Dummy bar handling system. 3,698,469, 10-17-72, Cl. 164-274.000.

Greenberger, Joseph Irwin, to Wean United, Inc. Method of and apparatus for calendering strip-like material. 3,702,912, 11-14-72, Cl. 219-10.610.

Greenberger, William, to Hopp Press Incorporated, The. Three-dimensional molding sign and method of fabricating same. 3,706,150, 12-19-72, Cl. 40-124.100.

Greenbert, Burton: *See*—
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Greenblatt, Eugene Newton: *See*—
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Greene, Aubrey E.; and Layfield, F. F. Wheel spinner. 3,645,143, 2-29-72, Cl. 74-14.
Greene, Bernard A., to Amsted Industries Incorporated. Extruding fittings. 3,659,992, 5-2-72, Cl. 425-192.
Greene, Charles E., to General Tire & Rubber Company, The. Unsaturated polyester resin formation in unsaturated ester monomer as solvent. 3,662,024, 5-9-72, Cl. 260-863.000.
Greene, Charles W., to Deering Milliken Research Corporation. Vulcanizing rubber covered wire. 3,642,532, 2-15-72, Cl. 117-233.
Greene, Clarence Kirk. Underwater communication between a vessel and a structure and vessel-positioning means. 3,646,771, 3-7-72, Cl. 61-69.
Greene, Clarence Kirk. Hydraulic drive for multi-axle vehicles. 3,680,652, 8-1-72, Cl. 180-22.000.
Greene, Clarence Kirk. Hydraulic drive for vehicles using hydraulic motors. 3,702,642, 11-14-72, Cl. 180-44.00m.
Greene, Clifford E.: *See—*
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Greene, Franklin R., to E-Z-Em Company, Inc. Stand-up container adapted for the administration of enemas. 3,641,999, 2-15-72, Cl. 128-227.
Greene, H Rowe, Jr. Retrieving tool and method. 3,645,328, 2-29-72, Cl. 166-85.
Greene, Henry E., Jr. Turnbuckle wrench. 3,682,023, 8-8-72, Cl. 81-119.000.
Greene, James S. Denture molding apparatus including flask members with removable plastic inserts. 3,635,630, 1-18-72, Cl. 425-175.
Greene, Janice L.; and Clark, Rosalind E., to Standard Oil Company. Conversion of nitriles to amides in the presence of alkaline catalysts. 3,686,307, 8-22-72, Cl. 260-561.00n.
Greene, Joseph L.: *See—*
Katz, Seymour; and Greene, Joseph L., 3,694,325.
Greene, Malbone W., to Beckman Instruments, Inc. Pressure compensation of membrane-type sensors. 3,663,409, 5-16-72, Cl. 204-195.
Greene, Michael L., to United States of America, Navy. Coring apparatus for taking samples of the ocean floor. 3,666,028, 5-30-72, Cl. 175-189.000.
Greene, Palmer G., to Automatic Drilling Machines, Inc. Drilling rig depth control. 3,651,871, 3-28-72, Cl. 173-21.
Greene, Ralph F., to General Electric Company. Method of making an electrostatic deflection electrode array. 3,680,184, 8-1-72, Cl. 29-25.140.
Greene, Richard M.: *See—*
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Greene, Richard M., to GTE Laboratories, Incorporated. All-FET linear voltage difference amplifier. 3,663,888, 5-16-72, Cl. 330-18.
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Greene, Robert Raymond; Jacob, Hans Oscar; and Meece, Meredith Wayne, to International Telephone and Telegraph Corporation. Air pumps. 3,650,639, 3-21-72, Cl. 417-368.
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Greene, William H., to Bendix Corporation, The. Uniformly illuminated meter indicator. 3,699,915, 10-24-72, Cl. 116-129.00l.
Greenfield, Alec; deceased (by Greenfield, Dorothy M.; executrix), to Avnet, Inc., mesne. Detent swivel for truck mirrors and the like. 3,637,186, 1-25-72, Cl. 248-478.
Greenfield, Dorothy M.: *See—*
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Greenfield, Rose K. Device for holding a child in a reclining position to facilitate hair shampooing. 3,633,222, 1-11-72, Cl. 4-185.
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Greenfield, Stanley A., to Rohm & Haas Company. Method for preparing 4-substituted-1,2,4-thiazoles. 3,647,814, 3-7-72, Cl. 260-308.
Greenfield, Stephen J.; Howard, Anthony; and Knapp, Lowell W., to Xerox Corporation. Document handling apparatus. 3,697,063, 10-10-72, Cl. 271-4.000.
Greengard, Julius Edward, Jr.; and Scannell, Thomas J. Automatic turf watering systems. 3,653,595, 4-4-72, Cl. 239-70.
Greenhalgh, Colin William; and Newton, David Francis, to Imperial Chemical Industries Limited. Anthraquinone compounds. 3,642,837, 2-15-72, Cl. 260-381.
Greenhalgh, Colin William; and Newton, David Francis, to Imperial Chemical Industries Limited. Anthraquinone dyestuff. 3,691,209, 9-12-72, Cl. 260-378.000.
Greenhalgh, William. Pakahome. 3,656,724, 4-18-72, Cl. 296-23.
Greenhard, Paul; and Petrack, Barbara, to Geigy Chemical Corporation. Vasoconstricting and bronchodilating compositions and methods utilizing gallic acid and alkyl gallates. 3,639,622, 2-1-72, Cl. 424-308.
Greenhorn, Richard J.: *See—*
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Greening, Donald J.; Kintner, Paul M.; and Strand, Sanford M., to Cutler-Hammer, Inc. Percentage elongation calibrated digital pulse deleter. 3,655,950, 4-11-72, Cl. 235-92.
Greenland, Leonard Sidney; Smith, Charles Philip; and Marshall, David, to Hobson, H. M., Limited. Jet engines for aircraft. 3,655,134, 4-11-72, Cl. 239-265.37.
Greenlee, Hugh T., to Wright Tool and Forge Company, The. Hanger bracket means. 3,656,727, 4-18-72, Cl. 248-201.
Greenlee, Thomas W., to Dow Corning Corporation. Room temperature vulcanizable silicone elastomer containing molybdenum blue. 3,702,835, 11-14-72, Cl. 260-18.00s.
Greenley, Henry R.; and Craig, William E., said Greenley assor. to Porter, C. O., Machinery Company and said Craig assor. to Computer Specialties Corporation. Digital command control sequencer and machine controlled thereby. 3,706,072, 12-12-72, Cl. 340-14.00p.
Greenly, Robert B., to Singer-General Precision, Inc. Stencil recording apparatus. 3,638,566, 2-1-72, Cl. 101-114.
Greenman, James R.; and Lane, Thomas E., Jr., to Porta-Horse, Inc., mesne. Collapsible sawhorse. 3,631,941, 1-4-72, Cl. 182-155.
Greenman, Karl L.: *See—*
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Greenough, Maurice Leighton; and Kuder, Milton L., to United States of America, Commerce. Method and machine for reading handwritten cursive characters. 3,699,518, 10-17-72, Cl. 340-146.30z.
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Buzby, George C., Jr.; Greenspan, George; and Buhle, Emmett L., 3,697,379.
Greenspan, Gilbert; Curtis, Lawrence R.; Cunningham, Elmer E.; and Tabler, James G. Apparatus for providing recorded chromatic data displays of varying sensor signals. 3,678,277, 7-18-72, Cl. 250-83.30r.
Greenspan, Lawrence; and Straschil, Heinrich K., to Engelhard Minerals & Chemicals Corporation. Method for electroplating gold. 3,637,473, 1-25-72, Cl. 204-46.
Greenspan, Lawrence, to Engelhard Minerals & Chemicals Corporation. Osmium plated contacts. 3,644,692, 2-22-72, Cl. 200-166.
Greenspan, Lawrence, to Engelhard Minerals & Chemicals Corporation. Mirror bright silver plating. 3,679,553, 7-25-72, Cl. 204-43.000.
Greenspan, Lawrence E.; and Whitaker, Earl J., to Sanders Associates, Inc. Computer addressing apparatus. 3,665,402, 5-23-72, Cl. 340-172.5.
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Greenstein, Bernard; Langston, Perry R., Jr.; Narken, Bernt; and Sunners, Brian, to International Business Machines Corporation. Method for making monolithic opto-electronic structure. 3,663,194, 5-16-72, Cl. 65-43.000.

Greenstein, Jean I., to Dental Gold Company. Pneumatic abrasive cutting apparatus. 3,631,631, 1-4-72, Cl. 51-8.

Greenwald, Fred A., to General Connectors Corporation. Distortable seal ring. 3,698,727, 10-17-72, Cl. 277-153.000.

Greenwald, Harold A., to Garrett Corporation, The. Integral lubrication system. 3,687,233, 8-29-72, Cl. 184-6.180.

Greenwald, Harry, to Greenwald Industries, Inc. Reinforced coin drawer assembly. 3,645,598, 2-29-72, Cl. 312-333.

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Greenwald, John R.: *See—*
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Greenway, John Michael, to Imperial Chemical Industries Limited. Ring threading tool. 3,701,246, 10-31-72, Cl. 57-34.00r.

Greenwood, Allan N., to General Electric Company. Alternating current circuit breaker comprising a series reactor for shaping current and voltage waves near current zero. 3,656,022, 4-11-72, Cl. 317-11.

Greenwood, Arthur R.; and Vesely, Kenneth D., to Universal Oil Products Company. Continuous reforming-regeneration process. 3,647,680, 3-7-72, Cl. 208-65.

Greenwood, Arthur R.; and Vesely, Kenneth D., to Universal Oil Products Company. Reconditioning system for moving column of reforming catalyst. 3,652,231, 3-28-72, Cl. 23-288.

Greenwood, Arthur R.; and Vesely, Kenneth D., to Universal Oil Products Company. Apparatus for continuous reforming-regeneration process. 3,692,496, 9-19-72, Cl. 23-288.00g.

Greenwood, Arthur R.; Heinze, Walter W.; Schnitta, Edward; and Boyd, David M., to Universal Oil Products Company. Multiple-stage stacked reactor system for moving bed catalyst particles. 3,706,536, 12-19-72, Cl. 23-288.00g.

Greenwood, David: *See—*
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Greenwood, David L., to Litton Business Systems, Inc. Remotely controlled actuator. 3,679,878, 7-25-72, Cl. 235-146.000.

Greenwood, Donald, to G-L-J Toy Co., Inc., mesne. Gyroscope toy. 3,650,067, 3-21-72, Cl. 46-206.

Greenwood, Edward J., to Du Pont de Nemours, E. I., and Company. Solvent soluble dry soil resistant fluoropolymers. 3,637,614, 1-25-72, Cl. 260-80.72.

Greenwood, Edward L. Identification system for water pollution detection. 3,691,983, 9-19-72, Cl. 116-114.00r.

Greenwood, Eugene C. Lock nut assembly and bolt and wrench for use therewith. 3,705,524, 12-12-72, Cl. 81-121.00r.

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Greenwood, John Malcolm; and Stokes, David Howard, to Lever Brothers Company. Chemical compositions. 3,669,891, 6-13-72, Cl. 252-90.000.

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Greenwood, Marvin H.; Slaughter, Lomis, Jr.; and Polydoros, George N., to Anderson, Greenwood & Co. Shaft rotating device. 3,651,711, 3-28-72, Cl. 74-625.

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Greenwood, Robert; and Shepherd, John Michael, to T.M.M. (Research) Limited. Textile spinning machines. 3,685,272, 8-22-72, Cl. 57-58.950.

Greenwood, Roger; and Etcheverry, John P., to International Telephone and Telegraph Corporation. Pilot valve operated main valve with lost motion connected and tandem operated valves. 3,677,298, 7-18-72, Cl. 137-625.640.

Greenwood, Sidney, to Nitto Kohki U.S.A., Inc. Belt tracking arrangement. 3,653,274, 4-4-72, Cl. 74-241.

Greenwood, William S., to H & G Industries, Inc. Cam lock device for telescoping tubing. 3,667,788, 6-6-72, Cl. 287-58.0ct.

Greer, Albert H. Soluble quaternized condensation products of epihalohydrins and polyamines. 3,642,663, 2-15-72, Cl. 252-500.

Greer, Albert H., to Sybron Corporation. Process for producing color stable and odor-free heterocyclic nitrogen compound containing polymers. 3,654,221, 4-4-72, Cl. 260-45.9.

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Greger, Karl, to Siemens Aktiengesellschaft. Contactless switching device. 3,673,537, 6-27-72, Cl. 338-12.000.

Gregg, David W.; Kidder, Ray E.; and Krawetz, Barton, to United States of America, Atomic Energy Commission. Electron beam-initiated chemical laser systems. 3,673,513, 6-27-72, Cl. 331-94.500.

Gregg, Harry D., Jr.; and Lemaster, Howard V., to Ciba-Geigy Corporation. Preparation of triallyl cyanurate. 3,644,410, 2-22-72, Cl. 260-248.

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Gregg, Richard: *See—*
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Grego, Peter; Kozlowski, Theodore R.; and Schuyler, Peter M., to Corning Glass Works. Decorating glass-ceramic articles. 3,650,720, 3-21-72, Cl. 65-30.

Gregoire Engineering & Development Co.: *See—*
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Gregoire, Johannes H. C. M. A.: *See—*
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Gregory, Benjamin F., to Trak Microwave Corporation. Four band slot antenna. 3,701,161, 10-24-72, Cl. 343-770.000.
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Grenfell, Hugh Willmott, to British Steel Corporation. Manganese control in basic steelmaking process. 3,661,560, 5-9-72, Cl. 75-60.
Grenier, Aime J., to Texas Instruments, Incorporated. Transient suppression system. 3,660,719, 5-2-72, Cl. 317-16.
Grenier, Andre. Ventilated garments. 3,706,102, 12-19-72, Cl. 2-84.000.
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Gresham, William Franklin; and Vogelpohl, Alfons Franz, to Du Pont de Nemours, E. I., and Company. Aqueous process for making improved tetrafluoroethylene/fluoroalkyl perfluorovinyl ether copolymers. 3,635,926, 1-18-72, Cl. 260-87.5.
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Grey, Donald M.; and Cook, Albert C., to Sperry Rand Corporation. Retriever attachment for a bale wagon. 3,662,900, 5-16-72, Cl. 214-6.00b.
Grey, Donald M., to Sperry Rand Corporation. Method and apparatus for forming a tie pattern of bales on a bale wagon. 3,664,519, 5-23-72, Cl. 214-6.00b.
Grey, Donald M.; and Welker, Jerry W., to Sperry Rand Corporation. Table extension for a bale wagon. 3,700,119, 10-24-72, Cl. 214-6.00b.
Grey, Donald M.; Butler, Lee D.; Welker, Jerry W.; and Crane, Jack W. Method of handling bales. 3,706,389, 12-19-72, Cl. 214-152.000.
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Grey, Joseph Michael. Board game with definitely movable game pieces. 3,672,680, 6-27-72, Cl. 273-131.0ab.
Grey, Michael W., to Addmaster Corporation. Checkwriter. 3,677,463, 7-18-72, Cl. 235-58.cwm.
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Grib, Boris F., to Philamon Incorporated. Tuning fork light modulator. 3,632,192, 1-4-72, Cl. 350-269.
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Grice, Karl R., Jr.; and Edwards, Dan M. Materials counting system utilizing permanent magnets and their associated fields. 3,706,027, 12-12-72, Cl. 324-34.00r.
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Grieb, Hubert Josef, to Daimler-Benz Aktiengesellschaft. Gas turbine for aircrafts. 3,651,645, 3-28-72, Cl. 60-262.
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Griepentrog, Heinz: *See—*
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Grier, John D., to Owens-Illinois, Inc. Electrode configuration for electrophotography. 3,700,436, 10-24-72, Cl. 96-1.00r.
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Griew, David Charles Lambert. Small arms weapon and small arms ranges. 3,703,845, 11-28-72, Cl. 89-134.000.
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Griffin, Robert M.: *See—*
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Griffin, Ronald G., to Collins Radio Company. Digital MOS FET characteristic tester. 3,636,450, 1-18-72, Cl. 324-158.
Griffin, Theodore F.; and Rye, Grover W., to Goodyear Tire & Rubber Company, The. Device for removing excess liquid coating from a moving fabric. 3,675,621, 7-11-72, Cl. 118-122.000.
Griffin, Theodore F., to Goodyear Tire & Rubber Company, The. Dip tank used in coating fabric. 3,675,622, 7-11-72, Cl. 118-421.000.
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Griffin, Thomas S.; Rodgers, Warren; and Trampier, Charles R., Jr., to N L Industries, Inc. Method of preparing pigment composition. 3,681,101, 8-1-72, Cl. 106-299.000.
Griffin, Warren R. Mixing apparatus. 3,695,586, 10-3-72, Cl. 259-24.000.
Griffin, William C., to United States of America, Navy. Method and apparatus for investigation of projectile flight. 3,667,847, 6-6-72, Cl. 356-138.000.
Griffin, William F.; and Morena, Alfred, Jr., to Ceramic Metal Systems, Incorporated. Ceramic package. 3,634,600, 1-11-72, Cl. 174-52.
Griffing, Brandt M., to International Business Machines Corporation. Pulse driving circuit for inductive load. 3,641,367, 2-8-72, Cl. 307-252.
Griffing, Brandt M., to International Business Machines Corporation. Permanent magnet electromagnetic actuator. 3,659,238, 4-25-72, Cl. 335-229.
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Griffith & Associates, Inc.: *See—*
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Griffith, Albert M., III: *See—*
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Griffith, Arthur G. Eyeglass temple. 3,666,355, 5-30-72, Cl. 351-118.
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Griffith, Gene M.; and Hayes, Lester P., to Staley, A. E., Manufacturing Company. Loop cooker. 3,661,640, 5-9-72, Cl. 127-28.000.
Griffith, James J., to United Aircraft Corporation. Load anticipation control for a free turbine type of power plant. 3,678,285, 7-18-72, Cl. 290-40.000.
Griffith, James M.: *See—*
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Griffith, Jeffrey D., to Dow Chemical Company, The. Soil treating method and composition for conserving nitrogen in soil by addition of a pyrazole thereto. 3,635,690, 1-18-72, Cl. 71-1.
Griffith, John Q., III; William, Edward S.; and Reiland, William H., Jr., to Sun Oil Company. Hydraulic oil composition. 3,694,363, 9-26-72, Cl. 252-72.000.
Griffith Laboratories, Inc., The: *See—*
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Griffith, Richard A., to Park-Ohio Industries, Inc. Single turn channel coil. 3,699,302, 10-17-72, Cl. 219-10.570.
Griffith, Richard McDonald: *See—*
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Griffith, Robert L.; and Oldham, Ira B., III, to International Business Machines Corporation. Error detection and correction system with statistically optimized data recovery. 3,668,631, 6-6-72, Cl. 340-146.1ax.
Griffith, Vernon D., to Griffith & Associates, Inc. Applicator instrument. 3,655,290, 4-11-72, Cl. 401-186.
Griffith, Willard Denis; and Norton, Harry William, to McConnel, F. W., Limited. Fluid flow regulator valves. 3,636,970, 1-25-72, Cl. 137-117.
Griffiths, Brian J.; Cooper, Herbert T.; and Hudson, Peter F., to Midland Silicones Limited. Method for preparing aminoalkyl-alkoxy siloxanes. 3,661,964, 5-9-72, Cl. 260-448.8.
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Griffiths, Geoffrey; and Stead, Cecil Vivian, to Imperial Chemical Industries Limited. Reactive disazo triazine dyestuffs made from a diamino diphenylurea disulphonic acid. 3,658,782, 4-25-72, Cl. 260-153.
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Griffiths, James Edward, to Bell Telephone Laboratories, Incorporated. Gaseous dielectric materials. 3,674,696, 7-4-72, Cl. 252-63.700.
Griffiths, Kenneth. Fuel injection apparatus for internal combustion engines. 3,687,375, 8-29-72, Cl. 239-557.000.
Griffiths, Kenneth, to Griffiths Fuel Injection (Development) Limited. Apparatus capable of use as a pump or a motor. 3,687,580, 8-29-72, Cl. 418-45.000.
Griffiths, Leonard B.; and Krock, Richard H., to Mallory, P. R., & Co., Inc. Means and method for making porous bodies of integral structure. 3,655,447, 4-11-72, Cl. 136-30.
Griffiths, Leonard B.; and Shen, Yuan-Shou, to Mallory, P. R., & Co., Inc. Nickel-chromium-beryllium alloy. 3,704,182, 11-28-72, Cl. 148-32.000.
Griffiths, Robert I.: *See—*
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Griffolyn Company, Incorporated: *See—*
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Grigat, Ernst; Schultheis, Heinz; Bock, Eugen; and Dollhausen, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Process for bonding non-porous materials by means of polyfunctional aromatic cyanic acid esters. 3,658,623, 4-25-72, Cl. 156-331.
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Griggs, David Thurston, a/k/a; and Griggs, D. Thurston. Speech controlled phonetic typewriter. 3,646,576, 2-29-72, Cl. 179-1.
Griggs, Ernest Lee, Jr.; and Porter, John David, to Du Pont de Nemours, E. I., and Company. Ring and bar tensioner. 3,679,153, 7-25-72, Cl. 242-153.000.
Griggs, John O., Jr.; Radcliffe, Arthur J., Jr.; and Matouka, Michael F., to Burroughs Corporation. Electronic printing digital calculator. 3,643,077, 2-15-72, Cl. 235-160.
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Griggs, Richard V.; and Attwood, John G., to Union Special Machine Company. Bonding machine for fabrics with locating and auxiliary bonding means. 3,635,780, 1-18-72, Cl. 156-583.
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Grigorovici, Radu G.; Devenyi, Andrei Gavrila; Florea, Valer; Korony, Gheorghe; Belu, Aretia; and Costachescu, Carol, to Institutul de Fizica. Piezoresistive transducers and devices with semiconducting films and their manufacturing process. 3,705,993, 12-1-72, Cl. 310-8.100.
Grigsby-Barton, Inc.: *See*—
Pascente, Joseph E., 3,668,422.
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Grimes, Dale F., Jr. Grain cleaner. 3,672,504, 6-27-72, Cl. 209-255.000.
Grimes, Dale M., to United States of America, Air Force. Ferrite radar absorbing material. 3,662,387, 5-9-72, Cl. 343-18.00a.
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Grimes, Donald W.; and Michael, Wayne P., to Shell Oil Company. Fused container closure and means facilitating removal of the same. 3,632,004, 1-4-72, Cl. 215-40.
Grimes, John J. Lawn mower protective guard. 3,646,740, 3-7-72, Cl. 56-320.2.
Grimes, Kendall H.: *See*—
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Grimes, Monford D.; and Edmonds, James T., Jr., to Phillips Petroleum Company. Reduction of sulfur extraction from poly(arylene sulfied) coated cookware. 3,701,665, 10-31-72, Cl. 99-1.000.
Grimes, Raymond E.; and Bruen, Robert W., to Baxter Laboratories, Inc. Microbiological isolator. 3,696,002, 10-3-72, Cl. 195-139.000.
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Grimm, David W., to Amerace Esna Corporation. Fastening device with captive, axial floating nut. 3,670,796, 6-20-72, Cl. 151-41.750.
Grimm, David W., to Amerace Esna Corporation. Self-locking one-piece metal castle nut. 3,687,182, 8-29-72, Cl. 151-21.00b.
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Grimm, Gerhard, to Geisenberger, Fritz. Reproducing camera. 3,682,545, 8-8-72, Cl. 355-18.000.
Grimm, Gerhard, to Fritz Geisenberger. Reproducing camera. 3,689,152, 9-5-72, Cl. 355-70.000.
Grimm, Harold; and Zuckerman, Ira, to Panther Machine Corporation. Turntable fabric spreading machine. 3,672,662, 6-27-72, Cl. 270-31.000.
Grimm, Harold H.; and Zuckerman, Ira, to Panther Machine Corporation. Edge alignment assembly for cloth spreading machine. 3,645,524, 2-29-72, Cl. 270-31.
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Grimm, Peter, to Metallgesellschaft Aktiengesellschaft. Automatic temperature control system for extruders for molten material. 3,698,844, 10-17-72, Cl. 425-144.000.
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Grimm, Robert A.; and Slagel, Robert C., to Ashland Oil, Inc. Substituted bis organo sulfones and sulfoxides and method for the preparation thereof. 3,644,442, 2-22-72, Cl. 260-400.
Grimm, Werner; Hasserodt, Ulrich; and Olschewski, Karl-Heinz, to Shell Oil Company. Liquid storage tank. 3,679,086, 7-25-72, Cl. 220-10.000.
Grimm, Werner; Olschewski, Karl H.; and Sack, Rolf E., to Shell Oil Company. Apparatus and method for heating shaft furnaces with fuel gas. 3,706,520, 12-19-72, Cl. 43-10.000.
Grimm, Wilhelm. Constructional element. 3,645,059, 2-29-72, Cl. 52-609.
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Grimm, Wolfgang Erlenbach: *See*—
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Grimmer, Elmer J., to Westinghouse Electric Corporation. Condenser bushing with flexible conductor connections attached to the condenser elements. 3,647,938, 3-7-72, Cl. 174-143.
Grimmer, Elmer J., to Westinghouse Electric Corporation. Electrical bushing having adjacent capacitor sections separated by axially continuous conductive layers, and including a cooling duct. 3,659,033, 4-25-72, Cl. 174-915.
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Grimshaw, Derald E., to Environmental Services, Inc. Waste treatment system. 3,662,890, 5-16-72, Cl. 210-195.000.
Grimshaw, Frederick W. Heat exchanger core. 3,702,632, 11-14-72, Cl. 165-152.000.
Grimston, Roger Anthony; and Boyland, Albert Henry John, to Vickerys Limited. Doctors for paper making machines. 3,649,991, 3-21-72, Cl. 15-256.51.
Grimwood, Geoffrey L.; and Ferrier, Duncan C., to Broadbent, Thomas, & Sons Limited. Discharge of solid particles from centrifugal machines. 3,650,465, 3-21-72, Cl. 233-13.

Grin, Michel; and Marchal, Francois, to European Atomic Energy Community (Euratom). Centering plug for magnetic welding a plug in the end of a tube. 3,699,297, 10-17-72, Cl. 219-9.500.

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Grinchuk, Petr Stepanovich: *See—*
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Grindahl, George A.; Pierce, Ogden R.; and Greenwald, John R., to Dow Corning Corporation. Perfluoroalkylene ether and thioether triazine polymers. 3,652,464, 3-28-72, Cl. 260-2.

Grinde, Jon W., to King Company, Inc. Lift boom assembly. 3,674,161, 7-4-72, Cl. 214-130.00r.

Grindheim, Earl A., to Rosemount Engineering Company. Two wire telemetry system. 3,680,384, 8-1-72, Cl. 73-361.000.

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Grindle, James L.: *See—*
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Osteen, Mitchell M.; and Grindle, James L., 3,662,165.
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Grindon, John R., to McDonnell Douglas Corporation. Radio direction finder signal processing means. 3,634,673, 1-11-72, Cl. 235-194.

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Griner, Arthur J.; and Blain, William A., to Nabisco, Inc. Machines for producing snack food in the shape of a scoop. 3,653,335, 4-4-72, Cl. 107-4.

Griner, Arthur J.; and Blain, William A., to Nabisco, Inc. Snack food forming apparatus. 3,671,163, 6-20-72, Cl. 425-297.000.

Griner, Arthur J.; and Ryder, George, to National Biscuit Company. Cracker stacking and segregating apparatus. 3,675,792, 7-11-72, Cl. 214-6.0ba.

Griner, Ralph R., to Palmer-Shile Company. Analog control system. 3,638,575, 2-1-72, Cl. 104-1.

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Mears, James W., 3,675,952.
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Grinnell, Fred I.; and Hall, Clark J. Retractable guard and guide for nailer. 3,670,941, 6-20-72, Cl. 227-8.000.

Grinninger, Lowell D., to National Distillers and Chemical Corporation. Control of molecular weight in the production of alfin polymers. 3,706,721, 12-19-72, Cl. 260-82.100.

Grinoch, Abraham, to United States of America, Army. Sensor for detecting radio frequency currents in carbon bridge detonator. 3,667,040, 5-30-72, Cl. 324-106.000.

Grinols, Kenneth D. Underground cable pedestal. 3,652,779, 3-28-72, Cl. 174-38.

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Grinstein, Reuben H., to Shell Oil Company. Hydrogenation of aldehyde impurities. 3,646,227, 2-29-72, Cl. 260-643.

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Griot, Rudolf G., to Sandoz-Wander, Inc. Derivatives of acetic acid in compositions and methods for the alleviation of hyperlipemia. 3,660,579, 5-2-72, Cl. 424-308.

Griot, Rudolf G., to Sandoz-Wander, Inc. Bis-halophenoxyacetic acid esters of polyalkanols. 3,668,234, 6-6-72, Cl. 260-473.

Griot, Rudolf G.; and Buzzolini, Mario G., to Sandoz-Wander, Inc. Glutaric acid derivatives. 3,671,583, 6-20-72, Cl. 260-535.00p.

Griot, Rudolf G., to Sandoz-Wander, Inc. Derivatives of acetic acid. 3,681,365, 8-1-72, Cl. 260-293.820.

Griot, Rudolf G., to Sandoz-Wander, Inc. Derivatives of acetic acid for the alleviation of hyperlipemia. 3,683,086, 8-8-72, Cl. 424-267.000.

Griot, Rudolf G., to Sandoz-Wander, Inc. 3,4-Piphenyl-1-(4-hydroxyphenyl)-cyclopentane. 3,703,560, 11-21-72, Cl. 260-619.00d.

Griparis, Andrew Geo., to Diversey Corporation, The. Apparatus for cleaning tanks and associated pipelines. 3,665,941, 5-30-72, Cl. 134-58.00r.

Gripe, Maxwell L., to Bendix Corporation, The. Electrical control for vacuum pump. 3,686,861, 8-29-72, Cl. 60-51.000.

Grippa, Leonida, to Istituto Nazionale Chimico Biologico S.r.l. Process for preparing deproteinized blood extracts having a healing action and product obtained thereby. 3,672,954, 6-27-72, Cl. 195-29.000.

Gripshover, Paul J.; Boyer, Charles B.; and Harth, George H., III, to Battelle Development Corporation, The. Isostatic forging. 3,633,264, 1-11-72, Cl. 29-421.

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Grisafe, David A., to Sylvania Electric Products, Inc. Phosphor compositions and processes for producing same. 3,649,554, 3-14-72, Cl. 252-301.6.

Grisard, Jean; and Grisard, Marcel A., to Incormac S. A. Plinth and/or framing elements for partitions and partitions applying such elements. 3,685,227, 8-22-72, Cl. 52-242.000.

Grisard, Jean-Claude: *See—*
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Grisard, Marcel A.: *See—*
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Grisdale, Patrick J., to Eastman Kodak Company. Benzo[b]pyrylium dye salts. 3,694,462, 9-26-72, Cl. 260-345.200.

Grise, Frederick G. J., to Novelty Tool Co., Inc. Vacuum pump. 3,635,607, 1-18-72, Cl. 417-394.

Grise, Frederick G. J. Valve and actuator therefor. 3,672,631, 6-27-72, Cl. 251-149.600.

Grisell, Richard T., to Polypac, Inc. Method of packaging. 3,641,725, 2-15-72, Cl. 53-14.

Grismer, Raymond J. Hair waving pick. 3,690,330, 9-12-72, Cl. 132-46.000.

Griswold, Augustus W., to Dynak, Inc. Fluid flow control device. 3,670,768, 6-20-72, Cl. 137-606.000.

Griswold, Augustus W.; and Tompkins, James R., to Sybron Corporation. Gas content of liquid determination. 3,673,853, 7-4-72, Cl. 73-19.000.

Griswold, Augustus W.; and Haritonoff, Boris W., to Keystone Micro-Scan, Inc., mesne. Variable film-width microfilm trimmer. 3,698,275, 10-17-72, Cl. 83-481.000.

Griswold, Richard H.: *See—*
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Gritzner, Gerhard; and Leddy, James J., to Dow Chemical Company, The. Preparation of Cl_2 by electrolysis of HCl and polyvalent metal chlorides. 3,635,804, 1-18-72, Cl. 204-128.

Grivas, John C., to Sherwin-Williams Company, The. 2-Carbalkoxyphenyl suifen-amides. 3,661,974, 5-9-72, Cl. 260-470.

Grivas, John C., to Sherwin-Williams Company, The. Bis (2-carbamylphenyl) disulfides. 3,663,616, 5-16-72, Cl. 260-558.00s.

Grivas, John C., to Sherwin-Williams Company, The. 2-(1-Adamantanyl)-1,2-benzisothiazolin-3-one. 3,706,758, 12-19-72, Cl. 260-304.000.

Groat, Craig R.; and Happold, Manfred R., to Link Engineering Company. Static torque testing device. 3,641,813, 2-15-72, Cl. 73-121.

Groat, Craig R.; and Happold, Manfred R., to Link Engineering Company. Testing device for brakes and brake material. 3,648,511, 3-14-72, Cl. 73-9.

Groat, Marshall O., to Kingsberry Home Corporation. Closure mold for building panels. 3,646,714, 3-7-72, Cl. 52-241.

Groat, Shirley A. Wig washer and setter. 3,662,574, 5-16-72, Cl. 68-213.

Grob, Karl; Oertter, Josef; and Wiesner, Paul, to Metallgesellschaft Aktiengesellschaft. Purification process. 3,687,844, 8-29-72, Cl. 210-23.000.

Grobbel, Sylvester J., 1/2 to Bellanca, Anthony J. Structure for removing air from a baby nurser. 3,648,873, 3-14-72, Cl. 215-11.

Grobe, Friedrich; and Weitze, Artur, to Siemens Aktiengesellschaft. Detachable electrical contact arrangement. 3,634,807, 1-11-72, Cl. 339-17.
Grobel, Edward A.: *See—*
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Grober, Kurt, to Mannesmann-Meer Aktiengesellschaft. Device for the manufacture of welded steel pipe from steel of any grade. 3,679,856, 7-25-72, Cl. 219-59.000.
Grobert, Paul H., to Communications & Systems, Inc. Four quadrant multiplier using pulse width modulators and the digital exclusive-OR. 3,666,933, 5-30-72, Cl. 235-194.
Grobert, Paul H., to Communications & Systems, Inc. High frequency four quadrant multiplier. 3,670,155, 6-13-72, Cl. 235-194.
Grobert, Paul H.; Adams, Robert T.; and Klein, Melvin S., to Computer Sciences Corporation. Four quadrant multiplier using bipolar digital analog converter. 3,683,165, 8-8-72, Cl. 235-194.000.
Grobin, Allen W., Jr.: *See—*
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Grobman, William, to Harris-Intertype Corporation. Sheet handling apparatus. 3,693,970, 9-26-72, Cl. 271-59.000.
Grobner, Wayne W., to Johnson & Johnson. Laminated fabric having different properties in different directions. 3,642,561, 2-15-72, Cl. 161-50.
Groce, Ernest F., to Wayne Manufacturing Company. Controlled stump remover. 3,685,557, 8-22-72, Cl. 144-2.00n.
Groce, Larry A. Overcurrent-fault indicator apparatus for truck lines of an electrical power distribution system. 3,641,548, 2-8-72, Cl. 340-253.
Groch, Frank O., to Stauffer Chemical Company. Reinforcement of plastics with suspension emulsion interpolymers. 3,660,529, 5-2-72, Cl. 260-876.
Grochowski, Edward G.: *See—*
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Grodkiewicz, William H.; Singh, Shobha; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Gallium arsenide junction diode-activated up-converting phosphor. 3,659,136, 4-25-72, Cl. 313-108.
Grodkiewicz, William H.; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Flux growth of rare earth fluorides. 3,667,921, 6-6-72, Cl. 23-300.000.
Grodko, Lev Naumovich: *See—*
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Grodsky, Gerold M.: *See—*
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Groe, Robert O. Measuring device. 3,638,323, 2-1-72, Cl. 33-162.
Groebel, Alfred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pharmacologically effective substance and process for isolating it from hazunta graciliflora. 3,639,589, 2-1-72, Cl. 424-195.
Groebel, Alfred; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pharmacologicaly effective substance and process for preparing it. 3,655,886, 4-11-72, Cl. 424-195.
Groeber, David P.: *See—*
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Groeber, Eugen, to Sperry Rand Corporation. Pneumatic roll device for document handling apparatus. 3,698,538, 10-17-72, Cl. 198-33.0ad.
Groebke, Wolfgang, to Sandoz Ltd. Phenyl-azo-phenyl compounds. 3,632,801, 1-4-72, Cl. 260-207.
Groen, Siemen H.; and Deumens, Johannes J. M., to Stamicarbon N.V. Preparation of (2-cyanoethyl) ketones. 3,686,262, 8-22-72, Cl. 260-465.100.
Groenenboom, Maarten: *See—*
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Groenhof, Eugene D., to Dow Corning Corporation. Alkyl-substituted disiloxanes. 3,632,619, 1-4-72, Cl. 260-448.2.
Groenhof, Eugene D., to Dow Corning Corporation. Bis (triorganosilyl) phosphate compositions. 3,639,239, 2-1-72, Cl. 252-49.9.
Groenhof, Eugene D.; and Schiefer, Harry M., to Dow Corning Corporation. Fluorosilicone hydraulic fluids. 3,660,453, 5-2-72, Cl. 260-448.2.
Groepper, Jurgen; and Sanchez, Jose, to Pennwalt Corporation. Curing and polymerizing processes employing beta-substituted diperoxyketals. 3,686,102, 8-22-72, Cl. 260-2.5ha.
Groepper, Jurgen, to Pennwalt Corporation. Curing processes using di-(2-methylbenzoyl) peroxide. 3,689,594, 9-5-72, Cl. 260-861.000.
Groet, Nicholas H.; and Salminen, Wilho M., to Eastman Kodak Company. Photographic processes and materials. 3,703,375, 11-21-72, Cl. 96-100.000.
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Groetschel, Karl Maria; and Groetschel, Utz, said Groetschel, Utz, assor. to said Groetschel, Karl Maria. Roof supporting systems. 3,672,176, 6-27-72, Cl. 61-45.00d.
Groetschel, Utz: *See—*
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Groezinger, Gerhard, to Mayer & Cie. Electrical pattern mechanism for circular knitting machines. 3,665,731, 5-30-72, Cl. 66-50.
Groezinger, John J., to Caterpillar Tractor Company. Marking and detection of subsurface defects in multi-layer hose structures. 3,678,271, 7-18-72, Cl. 250-71.50r.
Groff, Gaylord L., to Minnesota Mining and Manufacturing Company. Electrically insulative tape. 3,660,220, 5-2-72, Cl. 161-93.
Groff, Gaylord L.; and Williams, Ronald H., to Minnesota Mining and Manufacturing Company. Metal salt catalysts for epoxy-anhydride resin systems. 3,692,715, 9-19-72, Cl. 260-18.0ep.
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Grogan, John Thomas: *See—*
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Grogan, Michael. Umbrella holder. 3,700,149, 10-24-72, Cl. 224-5.100.
Grogler, Gerhard; and Oertel, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Polymers which contain polyamide, urea and/or urethane groups and process for preparing same. 3,666,726, 5-30-72, Cl. 260-77.5.
Grogler, Gerhard; and Oertel, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamide foams and elastomers from amino-crotonic acid esters. 3,691,112, 9-12-72, Cl. 260-2.5am.
Groh, Gunther, to U.S. Philips Corporation. Method and an arrangement for recognizing an object or its position and orientation in space. 3,661,465, 5-9-72, Cl. 356-162.
Groh, Gunther, to U.S. Philips Corporation. Optical multiplex filter system. 3,671,106, 6-20-72, Cl. 350-162.0sf.
Groh, Karl Heinz. Mechanism which includes an object arranged to travel freely on a surface. 3,638,357, 2-1-72, Cl. 46-240.
Groh, Margit; and Oetiker, Alfred, to Ciba Limited. Photographic material containing aliphatic perfluoro compounds. 3,666,478, 5-30-72, Cl. 96-114.5.
Grohe, Friedrich, Armaturenfabrik: *See—*
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Groll, Manfred; Bien, Hans-Samuel; and Neufang, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Phthalocyanine-sulphonic acid aryl esters. 3,634,451, 1-11-72, Cl. 260-314.5.
Grolla, Herbert, to Wagner, Heinrich, Maschinenfabrik. Machine for producing casting moulds. 3,672,434, 6-27-72, Cl. 164-187.000.
Grolman, Bernard, to American Optical Corporation. Apparatus for measuring the acuity of low vision patients. 3,639,042, 2-1-72, Cl. 351-30.
Grolman, Bernard, to American Optical Corporation. Method of making near-point cards for binocular refraction. 3,692,604, 9-19-72, Cl. 156-108.000.
Grombka, Walter J.; and Lyon, Lloyd B., to National Machinery Company, The. Press feed. 3,651,920, 3-28-72, Cl. 198-21.
Gronbach, Wilhelm. Hinge assembly comprising a compression spring for compensating the weight of wings. 3,683,454, 8-15-72, Cl. 16-190.000.
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Groneberg, Horst E.; and Snow, Kenneth A., to Bausch & Lomb Incorporated. Segmented deflectible screen surface for testing eyes by laser refraction. 3,659,930, 5-2-72, Cl. 351-36.
Gronemeyer, Erich W.: *See—*
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Gronka, Edward Anthony, to RCA Corporation. High voltage processing of cathode ray tubes. 3,698,786, 10-17-72, Cl. 316-26.000.
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Gronwald, Walter F. Machine for assembling nails and sealing washers. 3,707,010, 12-26-72, Cl. 10-155.000.
Gronwick, Jerry P.; Illian, Douglas F.; and Westphal, Donald J., to Sunbeam Corporation. Electric pressing iron. 3,691,660, 9-19-72, Cl. 38-77.830.
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Groom, William James, to Lion Oil Tool Holdings (International) Limited. Method of making a wear blade for an oil drilling tool. 3,660,889, 5-9-72, Cl. 29-475.
Groombridge, Denis William, to Courtaulds Limited. Manipulation of filaments. 3,690,975, 9-12-72, Cl. 156-62.200.
Groos, Horst Hans, to Schloemann Aktiengesellschaft. Tube press with mandrel adjustment. 3,651,680, 3-28-72, Cl. 72-265.
Groos, Horst Hans, to Schloemann Aktiengesellschaft. Metal-tube extrusion press. 3,675,457, 7-11-72, Cl. 72-265.000.
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Gropper, Hans; Mietzner, Franz Georg; and Urban, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of ethylene homopolymers or copolymers with 2-hydroperoxy-2-isopropylphenylpropane. 3,642,747, 2-15-72, Cl. 260-88.2.
Gropper, Hans; Stark, Kurt; Pfannmueller, Helmut; and Urban, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polyethylene under high pressure with methyl isobutyl ketone peroxide initiator. 3,660,370, 5-2-72, Cl. 260-94.9.
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Gros, Wilfred T. Plumb bob device. 3,683,510, 8-15-72, Cl. 33-392.000.
Grosbard, Gregory. Magnetic accelerator. 3,639,817, 2-1-72, Cl. 318-16.
Grosbard, Gregory, to Strategic Metals Research, Inc. Card validating apparatus and method. 3,648,242, 3-7-72, Cl. 340-149.
Grosbard, Gregory, to Strategic Automated Systems, Inc., mesne. Laminated record card comprising internal layer of high tensile strands. 3,662,156, 5-9-72, Cl. 235-61.12.
Grosberg, Sam, to Freedman and Goodman. Double-ended ball paddle. 3,674,266, 7-4-72, Cl. 273-73.00r.
Grosboll, Martin P., to Atlantic Richfield Company. Steam distilling pyrolysis gasoline. 3,637,486, 1-25-72, Cl. 208-363.
Grosch, Gottlieb W. Drill pipe couplings. 3,637,238, 1-25-72, Cl. 285-39.
Grosch, Gottlieb W. Irrigation apparatus. 3,679,135, 7-25-72, Cl. 239-183.000.
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Grosfillex, Raymond E., to Grosfillex S.A.R.L. Chairs. 3,694,030, 9-26-72, Cl. 297-445.000.
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Grosh, James L., to United Aircraft Corporation. Transverse filament reinforcing tape and methods and apparatus for the production thereof. 3,700,527, 10-24-72, Cl. 156-426.000.
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Grosjean, Pierre; and Palsky, Alain, to Societe Rhodiaceta. Thermoplastic compositions based on polyolefines and polyamides. 3,646,157, 2-29-72, Cl. 260-857.
Grosjean, Robert M. Apparatus for sharpening leads for pencils or the like. 3,667,516, 6-6-72, Cl. 144-28.11.
Grosklos, Rill Lewis, to American Cyanamid Company. Solvent process for auramine and ethyl auramine. 3,668,252, 6-6-72, Cl. 260-566.00r.
Grosko, John A., to United States Steel Corporation. Expansible pressure-sealing device. 3,689,047, 9-5-72, Cl. 266-34.00v.
Groskopfs, Ernest, to Spar Aerospace Products Limited. Electrical rotary joint. 3,663,770, 5-16-72, Cl. 200-11.00r.
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Gross, Franz; Kahl, Paul; and Wiehler, Wolf, to Siemens Aktiengesellschaft. Traveling wave tube with a spiral delay line. 3,634,723, 1-11-72, Cl. 315-3.5.
Gross, Franz; Kahl, Paul; and Mammach, Peter, to Siemens Aktiengesellschaft. Travelling-wave tube with a vacuum-tight ceramic window. 3,646,485, 2-29-72, Cl. 333-98.
Gross, Franz; and Krapf Rudolf, to Brown, Boveri & Cie Aktiengesellschaft. Reactor core for thermionic nuclear reactor. 3,683,209, 8-8-72, Cl. 310-4.000.
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Gross, Frederick A., to International Rectifier Corporation. Positive displacement flowmeter. 3,657,925, 4-25-72, Cl. 73-239.
Gross, Gabriel, to Manufacture de Machines du Haut-Rhin. Apparatus for making propellants of powder strands. 3,647,200, 3-7-72, Cl. 269-51.
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Gross, Harry, to Canadian Patents and Development Limited. Susceptibility meter for field use for determining susceptibility of a rock cutcrop. 3,665,296, 5-23-72, Cl. 324-34.
Gross, Henry; and Gross, Samuel, to Gross Cash Registers Limited. Cash registers and other accounting machines. 3,691,360, 9-12-72, Cl. 235-168.000.
Gross, Henry W. Laundry folding accessory. 3,689,059, 9-5-72, Cl. 269-100.000.
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Gross, Jerome A., to Parsons, John F. Multi-part combustible casting pattern having bend-resistant glue-less joints. 3,695,340, 10-3-72, Cl. 164-246.000.
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Gross, Robert D.; and Rogers, Roland T., to Singer Company, The, mesne. Alterable read only memory organization. 3,665,426, 5-23-72, Cl. 340-173.0sp.
Gross, Robert I., to Pall Corporation. Flow indicator and valve. 3,633,612, 1-11-72, Cl. 137-498.
Gross, Robert I., to Pall Corporation. Separator of the semipermeable membrane type. 3,668,837, 6-13-72, Cl. 55-158.000.
Gross, Robert J.: *See—*
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Gross, Werner L., to Akron Standard, division of Eagle-Picher Industries, Inc. Segmented mold. 3,682,576, 8-8-72, Cl. 425-46.000.
Gross, William J., to Data Instruments Company. Magnetic tape cassette changer. 3,658,193, 4-25-72, Cl. 214-6.
Gross, William J. Self-propelled boat. 3,695,211, 10-3-72, Cl. 115-26.000.
Gross, William Keith, to Canadian Seating Company Limited. Flushing system. 3,648,298, 3-14-72, Cl. 4-100.
Gross, William R. Method and apparatus for raising and harvesting fish. 3,678,898, 7-25-72, Cl. 119-3.000.
Grossbudde, Willi. Wire joints. 3,668,741, 6-13-72, Cl. 24-27.000.
Grosse, Aristid V.; Stokes, Charles S.; and Smith, Edward W. Process for the production of oxides of nitrogen. 3,666,408, 5-30-72, Cl. 23-163.
Grosse, Aristid V., to Reynolds Metals Company, mesne. Method of reducing reaction between adjacent layers of liquid substances having different densities. 3,677,326, 7-18-72, Cl. 165-1.
Grosse, Aristid V., to Reynolds Metals Company. Method for heating hydrogen gas. 3,682,775, 8-8-72, Cl. 176-40.000.
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Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Steering axles with longitudinal elastic suspension. 3,632,127, 1-4-72, Cl. 280-96.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Ventilation device for automotive vehicles. 3,661,069, 5-9-72, Cl. 98-2.05.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Lapping or micro-machining tools. 3,672,101, 6-27-72, Cl. 51-165.930.
Grosseau, Albert, to Citroen S.A. (Automobiles Citroen, Berliet, Panhard). Vehicle suspension. 3,674,285, 7-4-72, Cl. 280-124.00r.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Methods of coating surfaces and in elements comprising such surfaces. 3,674,544, 7-4-72, Cl. 117-93.1pf.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Lateral abutment devices for vehicle windows. 3,698,136, 10-17-72, Cl. 49-394.000.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Methods of coating rubbing surfaces and element comprising such surfaces. 3,705,818, 12-12-72, Cl. 117-71.00m.
Grosseau, Albert A. G., to Societe Anonyme Automobiles Citroen. Hand brakes in motor vehicles. 3,672,240, 6-27-72, Cl. 74-503.000.
Grosseau, Albert A. G., to Societe Anonyme Automobiles Citroen. Vehicle suspension system. 3,701,542, 10-31-72, Cl. 280-124.00b.
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Grossman, Edward. Hair roller containing hair drying expediting material. 3,656,490, 4-18-72, Cl. 132-39.

Grossman, Frederick: *See—*
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Grossman, James D.; Mookherjee, Braja D.; De Simone, Robert; and Theimer, Ernst T., to International Flavors & Fragrances Inc. Perhydro 1,4,9,9-tetramethyl-4,7-methandazulenones. 3,679,749, 7-25-72, Cl. 260-586.00r.

Grossman, James Douglas; De Simone, Robert Santora; and Heeringa, Lambertus Gerke, to International Flavors & Fragrances Inc. Process for the preparation of 3,5-dialkyl resorcyclic acids and esters. 3,634,491, 1-11-72, Cl. 260-473.

Grossman, James Douglas; and Light, Kenneth K., to International Flavors & Fragrances Inc. Alkyl esters of 4-chloro-alkyl resorcylic acid. 3,701,801, 10-31-72, Cl. 260-473.00s.

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Grosvenor, Herbert D.: *See—*
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Groszek, Aleksander Jerzy, to British Petroleum Company Limited, The. Molybdenum disulphide. 3,647,689, 3-7-72, Cl. 292-25.

Groszek, Aleksander Jerzy; and Witheridge, Rodney Ernest, to British Petroleum Company Limited, The. Solid compositions. 3,666,689, 5-30-72, Cl. 252-512.000.

Grot, Walther Gustav: *See—*
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Grot, Walther Gustav, to Du Pont de Nemours, E. I., and Company. Surface-activated fluorocarbon objects. 3,692,569, 9-19-72, Cl. 117-138.8uf.

Grot, Walther Gustav, to Du Pont de Nemours, E. I., and Company. Electrochemical cell containing a water-wettable polytetrafluoroethylene separator. 3,702,267, 11-7-72, Cl. 136-146.000.

Grote, George A., to National Bank and Trust Company of Central Pennsylvania; administrator, d.b.m.c.t.a. of the estate of Beach, Willard C.; deceased, and administrator c.t.a. of the estate of Beach, Mary B. Filter for moisture and oil vapor. 3,678,662, 725-72, Cl. 55-387.000.

Grote, George A., to National Bank and Trust Company of Central Pennsylvania; administrator, d.b.m.c.t.a. of the estate of Beach, Willard C.; deceased, National Bank and Trust Company of Central Pa.; administrator c.t.a. of the estate of Beach, Mary B. Separable filter housing and cartridge for a fluid flow line. 3,681,899, 8-8-72, Cl. 55-503.000.

Grote, Herbert E.; and Henry, Wilbur G., to Procter & Gamble Company, The. Stable dry cleaning compositions. 3,642,644, 2-15-72, Cl. 252-153.

Grote, James E. Machine for slicing sausage and applying the slices to pizza in a predetermined pattern. 3,633,450, 1-11-72, Cl. 83-201.

Grote, Wilfried Christoph: *See—*
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Grotefend, William H., to Computing & Software, Inc. Envelope. 3,652,008, 3-28-72, Cl. 229-85.

Groteke, Daniel Edward; and Lazor, Donald Keith, to American Standard, Inc. Furnace pouring and casting system. 3,653,426, 4-4-72, Cl. 164-257.

Groteke, Daniel Edward, to American Standard, Inc. Die casting densifier and ejector apparatus. 3,664,410, 5-23-72, Cl. 164-303.

Grotenhuis, Ivan M.; and Kubiatowicz, David O., to Minnesota Mining and Manufacturing Company. Biodegradable radioactive particles. 3,663,686, 5-16-72, Cl. 424-1.

Grotenhuis, Ivan M., to Minnesota Mining and Manufacturing Company. Diagnostic material and process using chelated radioactive ytterbium. 3,663,688, 5-16-72, Cl. 424-1.

Grotewald, Hans W.; and Bryan, Don S. Apparatus for preparing citrus halves. 3,638,695, 2-1-72, Cl. 146-3.

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Groth, Edward John, Jr., to Motorola, Inc. Acquisition method for multi-transmission position locating or navigating systems. 3,701,018, 10-24-72, Cl. 325-58.000.

Groth, George Stephen, to Bell Telephone Laboratories, Incorporated. Program for polling party line data stations for message pickup. 3,702,008, 10-31-72, Cl. 444-1.000.

Groth, Rolf; Van Boort, Henricus Johannes Joseph; and De Neve, Gerard Marie Jules, to U.S. Philips Corporation. Method of manufacturing glass articles having a heat-reflecting film. 3,666,534, 5-30-72, Cl. 117-97.000.

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Grotheer, Morris P., to Hooker Chemical Corporation. Crystallization of a metal chlorate from a chlorate-chloride containing solution. 3,690,845, 9-12-72, Cl. 23-300.000.

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Grotyohann, Arthur G., to N L Industries, Inc. Method and means for automating computer-controlled production of particulate materials. 3,662,605, 5-16-72, Cl. 73-421.50r.

Grotz, Edward C., to Mr. Gardemer Enterprises Ltd. Watering can. 3,648,933, 3-14-72, Cl. 239-377.

Grotz, Norman; and Maccarone, Michael B. Pressurized dispenser. 3,698,595, 10-17-72, Cl. 220-63.00r.

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Grout, Kenneth M.; and Devellian, Richard D., to Kenics Corporation. Mixing device. 3,664,638, 5-23-72, Cl. 259-4.000.

Grout, Kenneth M.; and Devellian, Richard D., to Kenics Corporation. Dispersion production method. 3,704,006, 11-28-72, Cl. 259-4.000.

Grout, Stephen, to General Electric Company. Bias circuit for a complementary transistor output stage. 3,699,467, 10-17-72, Cl. 330-17.000.

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Grove, Byron F. Multi-frequency sampling system and method. 3,636,771, 1-25-72, Cl. 73-421.

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Grove, George L.; Stewart, Irving J.; and Helson, Lloyd W., to Cincinnati Milacron Inc. Guard device for machine tools. 3,638,364, 2-1-72, Cl. 51-269.

Grove, Lawrence L., to General Electric Company. Electric oven toaster door operating mechanism. 3,660,637, 5-2-72, Cl. 219-413.000.

Grove, Leroy K. Electromagnet for brakes and clutches. 3,668,445, 6-6-72, Cl. 310-77.000.

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Grove, Marvin H.; and Van Arsdale, Lyle R., to M & J Valve Company. Meter providing method and apparatus. 3,638,475, 2-1-72, Cl. 73-3.
Grove, Marvin H., to M & J Valve Company. Gate valve body rib reinforement. 3,638,908, 2-1-72, Cl. 251-329.
Grove, Marvin H.; Kim, Kee W.; and Van Arsdale, Lyle R., to M & J Valve Company. Valve apparatus having leak detecting means. 3,641,542, 2-8-72, Cl. 340-238.
Grove, Marvin H.; and Kim, Kee W., to M & J Valve Company. Ball valve. 3,656,498, 4-18-72, Cl. 137-246.22.
Grove, Marvin H.; and Van Arsdale, Lyle R., to M & J Valve Company. Pumping station sphere handling method and system. 3,664,356, 5-23-72, Cl. 137-1.
Grove, Marvin H.; and Van Arsdale, Lyle R., to M & J Valve Company. Meter proving method and apparatus. 3,668,923, 6-13-72, Cl. 73-3.000.
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Grover, Douglas U. Pressure differential filtering apparatus and method. 3,693,804, 9-26-72, Cl. 210-359.000.
Grover, George M.; and Coyle, Edward L., to ACF Industries, Incorporated. Heating system for a railway tank car or the like. 3,686,040, 8-22-72, Cl. 165-105.000.
Grover Machine Company: *See*—
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Grover, Robert Raymond. Recirculating bearing. 3,655,247, 4-11-72, Cl. 308-6.
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Groves, Donald L.: *See*—
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Groves, Donald W., to Ford Motor Company. Adjustable steering column. 3,678,778, 7-25-72, Cl. 74-493.000.
Groves, Ermy W., 1/4 to Groves, Donald L. Hair cutting clipper attachment. 3,651,570, 3-28-72, Cl. 30-233.
Groves, Frank R.; and Denard, Ralph A. Tree shear and delimber. 3,633,638, 1-11-72, Cl. 144-3.
Groves, Malcolm D., to Combustion Engineering, Inc. Gripper device having positive engaging and disengaging means. 3,698,756, 10-17-72, Cl. 294-96.000.
Groves, Raymond Sturgis: *See*—
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Groves, Richard N., Jr.; Cain, Robert L.; and Senn, Robert F., to Beatrice Foods Co. Electric barbeque unit. 3,683,792, 8-15-72, Cl. 99-447.000.
Groves, Sydney L.; Kuchta, Frank J.; Lewis, J. Stephen; Maurer, Donald J.; May, Richard L.; Ryan, John W.; and Vowles, Colin, to Mattel, Inc. Adjustable hair doll. 3,670,451, 6-20-72, Cl. 46-135.000.
Groves, William L., Jr., to Continental Oil Company. Sulfosuccinate half ester lime soap dispersing agents. 3,640,882, 2-8-72, Cl. 252-121.
Groves, William L., Jr.; and Huddleston, Robert L. Low-foaming surface active compositions and method of preparing such compositions. 3,684,736, 8-15-72, Cl. 252-355.000.
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Growney, Lawrence J., to Continental Can Company, Inc. Book-type carton. 3,698,544, 10-17-72, Cl. 206-45.110.
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Grubb, Eugene L., to Du Pont de Nemours, E. I., and Company. Hexaarylbiimidazole-heterocyclic compound compositions. 3,647,467, 3-7-72, Cl. 96-90.
Grubb, Robert L., to Allis-Chalmers Manufacturing Company. Shunt reactor having improved insulating fluid circulating means. 3,663,910, 5-16-72, Cl. 336-57.
Grubb, Willard T.: *See*—
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Grubb, Willard T.; and Macur, Robert A., to General Electric Company. Reactant sensor and method of using same. 3,647,641, 3-7-72, Cl. 204-1.
Grubb, Willard T.; and Macur, Robert A., to General Electric Company. Electrochemical cell with at least one gas diffusion electrode. 3,650,836, 3-21-72, Cl. 136-86.
Grubb, Willard T., to General Electric Company. Seal and closure for ion-selective electrode. 3,664,537, 5-23-72, Cl. 220-2.1.
Grubb, Willard T., to General Electric Company. Hydrogen ion-selective sensor. 3,671,414, 6-20-72, Cl. 204-195.00r.
Grubb, Willard T.; and Macur, Robert Anthony, to General Electric Company. Electrode containing a catalytic coating of platinum, palladium, and a third metal and fuel cell utilizing same. 3,701,687, 10-31-72, Cl. 136-86.00r.
Grubb, Willard T., to General Electric Company. Reference electrode half cell. 3,705,089, 12-5-72, Cl. 204-195.00f.
Grubb, Winston C. Harness for fishing bobber. 3,633,305, 1-11-72, Cl. 43-44.92.
Grubba, Donald C., to Avco Corporation. Flame deposited oxide coating and method of making same. 3,640,757, 2-8-72, Cl. 117-93.1.
Grube, William L., to MacLean-Fogg Lock Nut Co. Method of securing fasteners to sheet material. 3,693,237, 9-26-72, Cl. 29-432.200.
Grube, William L., to MacLean-Fogg Lock Nut Co. Method of fabricating and attaching pierce nuts to a panel. 3,704,507, 12-5-72, Cl. 29-417.000.
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Grubelic, Nicholas T. Massaging machine. 3,687,133, 8-29-72, Cl. 128-58.000.
Gruben, Arnold H.; and Carlick, Daniel J., to Sun Chemical Corporation. Modified polyamide resins. 3,639,313, 2-1-72, Cl. 260-18.
Gruber, Bernard A., to Monsanto Company. High-strength metal-SiC article. 3,653,851, 4-4-72, Cl. 29-183.
Gruber, Bernard A., to Monsanto Company. Laminated article. 3,676,293, 7-11-72, Cl. 161-206.000.
Gruber, Clarence R. Particle cleaning. 3,685,651, 8-22-72, Cl. 209-133.000.
Gruber, Eugene Gerald. Vehicle mounted warning device. 3,678,456, 7-18-72, Cl. 340-87.000.
Gruber, Frank R., to Imagex Corporation, The. Photocomposition device. 3,678,819, 7-25-72, Cl. 95-4.50r.
Gruber, Gilbert A.: *See*—
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Gruber, Heinz, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Tiltable converter supporting mechanism. 3,652,071, 3-28-72, Cl. 266-36.
Gruber, Hermann; and Schmitz-Josten, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane casting resins containing aryl oxyalkanols. 3,686,140, 8-22-72, Cl. 260-47.0cb.
Gruber, Lothar: *See*—

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Gruber, Thomas J.; and Lyth, William W., to Eaton Yale & Towne, Inc. Solid state timing control for single cycle progressive lubricating systems. 3,656,140, 4-11-72, Cl. 340-270.
Gruber, William J. Shrimp deheading machine. 3,665,556, 5-30-72, Cl. 17-71.
Gruber, Wolfgang: *See—*
Bergmeyer, Hans Ulrich; Gruber, Wolfgang; Moellering, Hans; and Thum, Waldemar, 3,645,851.
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Gruber, Wolfgang; Bernt, Erich; Wahlefeld, August Wilhelm; and Dollacker, Werner. Reagent for determining blood sugar. 3,653,836, 4-4-72, Cl. 23-230.
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Grubstad, Alfred. Method of rendering extremely flexible a relatively rigid and brittle sheet, panel or elongated body of cellular plastic material having compressible foamed cells. 3,687,774, 8-29-72, Cl. 156-324.000.
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Gruchmann, Frank P.; and Connelly, Gordon F., to Eastman Kodak Company. Free-running two way clutch. 3,656,597, 4-18-72, Cl. 192-35.
Gruczelak, Norman P.; and Pierce, Joe T., to Texas Instruments, Incorporated. Magnetic head with printed circuit coil. 3,648,264, 3-7-72, Cl. 340-174.1.
Gruder, James F.: *See—*
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Gruenewald, Larry E.; and Kistner, John F., to Minnesota Mining and Manufacturing Company. Hydrophilic nonwoven web and method of making it. 3,694,301, 9-26-72, Cl. 161-159.000.
Gruenfeld, Norbert: *See—*
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Gruenfeld, Norbert, to Ciba-Geigy Corporation. Derivatives of 3-aryl-5-alkylhydantoins. 3,676,456, 7-11-72, Cl. 260-309.500.
Gruenfeld, Norbert; and Pesterfield, Enos C., Jr., to Ciba-Geigy Corporation. Pyridyl-2-imidazolones as anti-inflammatory agents. 3,678,169, 7-18-72, Cl. 424-263.000.
Gruenig, Rudolf; Berger, Erwin; and Sieber, Charles, to Hasler A.G. Selector and setting device for the synchronous operation of at least two multi-denominational counters in a machine such as a cash register capable of effecting printing operations. 3,674200, 7-4-72, Cl. 235-60.00r.
Gruenman, Vsevolod; and Hoffer, Max, to Hoffmann-La Roche Inc. Substituted benzylimidazolidinones. 3,636,039, 1-18-72, Cl. 260-309.7.
Gruenwald, Bjorn J., to Alpha Press Electronics, Inc. Relay counting circuit. 3,700,973, 10-24-72, Cl. 317-140.000.
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Gruler, Josef; Borgonovi, Bruno; Streitberger, Ernst Friedrich Henning; and Kratt, Kurt Wilhelm, to Hengstler, J., K.G. Error detecting pulse counter. 3,646,326, 2-29-72, Cl. 235-92.
Grulke, Carl A., to Union Carbide Corporation. Regenerative lime sheet for use in primary galvanic batteries employing a zinc anode. 3,652,339, 3-28-72, Cl. 136-161.
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Grundig, Heinz Georg, to International Standard Electric Corporation. Crossbar switch with prestressed mobile contact spring and perpendicular first and second shifting means. 3,643,053, 2-15-72, Cl. 200-176.
Grundman, Roger V., to Minnesota Mining and Manufacturing Company. Torque transmitting device. 3,654,777, 4-11-72, Cl. 64-30.
Grundmann, Ekkehard; and Schmidt-Kastner, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Preservation of organs, tissues, and foodstuffs by means of biological protease inhibitors. 3,682,776, 8-8-72, Cl. 195-1.700.
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Grundschober, Friedrich; and Arendt, John Harry, to Centre National d'Etudes Spatiales. Aromatic-heterocyclic polymers, prepolymers thereof and process for preparation thereof. 3,681,284, 8-1-72, Cl. 260-47.

Grundtner, Matthias J.; and Melink, George E., to Sperry Rand Corporation. Wide-record narrow-read laminated magnetic head. 3,662,122, 5-9-72, Cl. 179-100.2.

Grundy, Brian; and Hampson, Peter Samuel, to Plessey Handel und Investments A.G. Means for supervision of the control of telecommunications switching networks. 3,706,856, 12-19-72, Cl. 179-18.0ge.

Grundy, Douglas; and Wills, John E., to United States of America, Navy, mesne. Drain valve having auxiliary seal. 3,698,420, 10-17-72, Cl. 137-329.060.

Grundy, Kenneth Henry: *See—*
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Grundy, Reed H., to Westinghouse Air Brake Company. Train line communication and control system. 3,651,765, 3-28-72, Cl. 105-61.

Grundy, Reed H., to Westinghouse Air Brake Company. Fail-safe duty cycle checking circuit. 3,660,680, 5-2-72, Cl. 307-234.

Grundy, Reed H., to Westinghouse Air Brake Company. Rate parameter indicator having meter movement smoothing at low rates. 3,691,462, 9-12-72, Cl. 324-166.000.

Grundy, Reed H., to Westinghouse Air Brake Company. Propulsion control system for self-propelled two-car trains. 3,698,325, 10-17-72, Cl. 105-61.000.

Grune, Horst; and Winsel, August, to Varta Aktiengesellschaft. Galvanic cell battery with gas diffusion electrodes. 3,668,011, 6-6-72, Cl. 136-86.00r.

Grune, Per-Olof: *See—*
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Grunewalder, Valentine J.; and Koeble, Earl A., to National Starch and Chemical Corporation, mesne. Pressure-sensitive adhesive. 3,697,618, 10-10-72, Cl. 260-78.50r.

Grunewalder, Werner. Process for flameproofing textile material. 3,687,720, 8-29-72, Cl. 117-137.000.

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Grunfeld, Maximilien; deceased (by Gras, Daniel; legal representative); and Bodin, Jean-Marie, to Rhone-Poulenc S.A. Process for purifying terephtalic acid. 3,649,683, 3-14-72, Cl. 260-525.

Grunig, James K.; Davis, William B.; and Aitkenhead, William C., to Anaconda Company, The. Extraction of beryllium from ores. 3,685,961, 8-22-72, Cl. 23-24.00b.

Grunig, James K.; Davis, William B.; and Aitkenhead, William C., to Anaconda Company, The. Extraction of beryllium from ores. 3,699,208, 10-17-72, Cl. 423-132.000.

Grunig, James K.; Davis, William B.; and Aitkenhead, William C., to Anaconda Company, The. Extraction of beryllium from ores. 3,704,091, 11-28-72, Cl. 423-128.000.

Grunther, Robert G.; Chatten, Clarence K.; and Lebovits, Alexander, to United States of America, Navy. Encapsulating elastomeric compound. 3,644,247, 2-22-72, Cl. 260-23.7.

Grunwald, Eduard; and Tuymer, Walter J., to Hoerbiger Ventilwerke Aktiengesellschaft. Explosion relief valve. 3,661,295, 5-9-72, Cl. 220-88.

Grunwald, Ernest: *See—*
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Grunwald, John J.; D'Ottavio, Eugene D.; and Kuzmik, John J., to Mac Dermid Incorporated. Pre-activation conditioner for electroless metal plating system. 3,632,388, 1-4-72, Cl. 117-47.

Grunwald, John J.; and Horner, Edmund E., to MacDermid, Incorporated. Process and compositions for treating aluminum and aluminum alloys. 3,634,262, 1-11-72, Cl. 252-100.

Grunwald, John J.; and D'Ottavio, Eugene D., to Mac Dermid Incorporated. Pretreatment of molded polyolefins for electroless plating. 3,647,512, 3-7-72, Cl. 117-47.

Grunwald, John J.; and Horner, Edmund E. Composition for blackening copper. 3,657,023, 4-18-72, Cl. 148-6.15.

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Grunwaldt, Edgar, to Geigy Chemical Corporation. Method for treating glaucoma with alkyl gallates. 3,679,804, 7-25-72, Cl. 424-308.000.

Grunwaldt, Edgar, to Ciba-Geigy Corporation. Treatment of glaucoma employing imipramine or desmethylimipramine. 3,705,942, 12-12-72, Cl. 424-244.000.

Grunzweig & Hartmann Aktiengesellschaft: *See—*
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Gruschka, Bernhard; and Herrmann, Berthold, to Voith Getriebe KG. Method of and system for changing the transmission ratio of a hydrodynamic vehicle transmission. 3,691,768, 9-19-72, Cl. 60-54.000.

Gruska, Ralph, to SEBEC Societe d'Exploitation de Brevets d'Emballage Cosmetique, SA. Case for lipsticks and other pasty products. 3,706,354, 12-19-72, Cl. 401-78.000.

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Grutsch, James F.; and Mallatt, Russell C., to Standard Oil Company. Apparatus used in purifying waste water. 3,675,779, 7-11-72, Cl. 210-242.000.

Grutsch, James F.; Mallatt, Russell C.; and Mowers, Robert G., to Standard Oil Company. Method of and apparatus for aerating water. 3,680,847, 8-1-72, Cl. 261-91.000.

Grutsch, James F.; and Mallatt, Russell C., to Standard Oil Company. Method and apparatus for regenerating spent caustic cresylate solutions. 3,692,473, 9-19-72, Cl. 423-183.000.

Gruzaltsski, James A. Leg supporting device. 3,696,826, 10-10-72, Cl. 135-45.000.

Gruzdev, Valentin Anatolievich; Skvortsov, Boris Vasilievich; Propkopenko, Nikolai Vasilievich; and Nedzvetsky, Evgeny Alexandrovich. Non-electrode R.F. light source. 3,636,396, 1-18-72, Cl. 313-31.

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Gryctko, Carl E.; Strobel, Albert; and Ball, Kenneth D., to I-T-E Imperial Corporation. Rotary handle operator with reversible cover latch. 3,697,714, 10-10-72, Cl. 200-172.00a.

Gryctko, Carl E.; and Shaffer, Howard R., to I-T-E Imperial Corporation. Shunt trip with load terminal. 3,703,691, 11-21-72, Cl. 335-20.000.

Grygera, James W.; Charlton, James R.; and Swenson, Kenneth S., to Eaton Corporation. Cross reference power supply. 3,694,662, 9-26-72, Cl. 307-24.000.
Grzyll, John V. Abrasive hand apparel. 3,643,386, 2-22-72, Cl. 51-391.
Gschwend, Heinz Werner; and Finch, Neville, to Ciba Corporation. Cycloalkano[c]pyrazole ethers. 3,637,738, 1-25-72, Cl. 260-311.
Gschwend, Heinz Werner; and deStevens, George, to Ciba-Geigy Corporation. 3-Aminoalkylidene-indazoles. 3,678,059, 7-18-72, Cl. 260-295.50b.
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GSE, Incorporated: *See—*
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Gstohl, Norbert; and Tauern, Dankmar, to Hilti Aktiengesellschaft. Electrical precleaning for stud-welding to a metal. 3,701,879, 10-31-72, Cl. 219-99.000.
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Gubler, Kurt; Meyer, Urs; and Brechbuhler, Hans Ulrich, to Geigy Chemical Corporation. 2-Hydroxy-and 2-mercapto-5-thiazolinyl-2'-pyridines. 3,669,976, 6-13-72, Cl. 260-294.8.

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Gudel, Alfred. Workpiece positioning arrangement. 3,704,880, 12-5-72, Cl. 269-303.000.

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Gudmestad, Ragnar, to Atros Engineering Company. Wire length measuring and cutting apparatus. 3,701,301, 10-31-72, Cl. 83-151.000.

Gudmestad, Ragnar, to Artos Engineering Company. Conveyor system for wire like articles. 3,703,954, 11-28-72, Cl. 198-179.000.

Gudmundsen, Austin. Golf ball retriever. 3,698,720, 10-17-72, Cl. 273-162.00e.

Guedel, Arthur R., to Guedel Company Inc. Elbow locking device. 3,698,389, 10-17-72, Cl. 128-77.000.

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Guehler, Paul F.; and Neumayer, John Joseph, to Minnesota Mining and Manufacturing Company. Analytical reagent and method for carbohydrate analysis in body fluids. 3,642,444, 2-15-72, Cl. 23-230.

Gueldenpfennig, Klaus, to Stromberg-Carlson Corporation. Path finding system for relay type crosspoint matrix networks. 3,637,944, 1-25-72, Cl. 179-18.

Gueldenpfennig, Klaus; and Hastings, William, to Stromberg-Carlson Corporation. Method and apparatus for identifying paths through a switching network. 3,646,277, 2-29-72, Cl. 179-18.

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Gueldenpfennig, Klaus; Reehil, Edward G.; and Tryon, Lansing E., to Stromberg-Carlson Corporation. Monitor for timing circuits. 3,705,386, 12-5-72, Cl. 340-167.00a.

Gueldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., to Stromberg-Carlson Corporation. Telephone switching network signalling system. 3,707,140, 12-26-72, Cl. 179-18.00j.
Guenard, Pierre, to Thomson-CSF. Microwave tube amplifier circuit for amplitude modulated and frequency modulated microwave signal. 3,676,791, 7-11-72, Cl. 330-43.000.
Guensche, Oscar M., to Dawson Carbide Industries. Adjustable tool holder for precisely repositioning reground cutter inserts. 3,703,755, 11-28-72, Cl. 29-96.000.
Guenther, Harvey C. Blood exchanging apparatus and process. 3,701,350, 10-31-72, Cl. 128-214.00b.
Guenther, Karl R.; and Havekost, Donald G., to Bergstrom Paper Company, mesne. Paper coating compositions and paper therewith. 3,655,608, 4-11-72, Cl. 260-37.
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Gueret, Herve, to Societe des Procedes Modernes d'Injection Sopromi. Electromagnetic fuel injectors for internal combustion engines. 3,669,361, 6-13-72, Cl. 239-585.000.
Guerga, Michel Henri; and Hallier, Bernard Lucien Desire, to International Standard Electric Corporation. Microwave dryer for ceramic articles. 3,704,523, 12-5-72, Cl. 34-1.000.
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Guerra, John P., to American Optical Corporation. Liquid sample holder for a photometer. 3,705,000, 12-5-72, Cl. 356-246.000.
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Guerrini, Camillo. Journal lubricator. 3,704,049, 11-28-72, Cl. 308-84.000.
Guerry, Franklin D., to Westinghouse Electric Company. Plastic holddown device for logic chassis. 3,672,614, 6-27-72, Cl. 248-68.
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Guerster, Rene L., to Ametek, Inc. Device for moving an elongated body in the direction of its axis. 3,679,145, 7-25-72, Cl. 242-54.00r.
Guerster, Rene L., to Ametek, Inc. Damped resilient self-erecting means. 3,680,802, 8-1-72, Cl. 242-54.00r.
Guertin, Robert W.; and Murray, Robert L. Valve seal for coupling device. 3,664,634, 5-23-72, Cl. 251-333.
Guery, Arieh Y., to Badger N.V. Process for the preparation of a nitrophosphate fertilizer. 3,653,872, 4-4-72, Cl. 71-35.
Guery, Marcel, to Commissariat a l'Energie Atomique. Method and apparatus for determination of a highly active element by alpha particle. 3,663,818, 5-16-72, Cl. 250-106.0sc.
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Guest, Ashley W.: *See—*
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Guest, Ashley W., to Plessey Handel und Investments A.G. Electrical demodulation systems. 3,675,139, 7-4-72, Cl. 329-104.000.
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Guettier, Michel, to Regie Nationale des Usines Renault and Automobiles Peugeot. Braking pressure distributing devices. 3,669,510, 6-13-72, Cl. 303-22.
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Guggi, Walter B., to Regus AG. Inverter for generating single or multiphase current. 3,638,098, 1-25-72, Cl. 321-43.
Guggi, Walter Bernhard. Stabilized sine wave inverter. 3,671,845, 6-20-72, Cl. 321-20.000.
Guggisberg, Ernst, to Graphicart Internationale Ausrustungsgesellschaft fur graphische Kunst AG. Machine for automatically stacking journals counted in previously selected numbers. 3,650,372, 3-21-72, Cl. 198-75.
Gugin, Robert J., to Agristeel Limited. Steering device for cultivating implements. 3,677,349, 7-18-72, Cl. 172-285.000.
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Gugnin, Jury Yakovlevich: *See—*
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Guha, Dwipendra Nath, to V-M Corporation. Phonograph tone arm. 3,682,485, 8-8-72, Cl. 274-23.00r.
Guhl, Jay F. Fork lift refuse bin and baler accessory. 3,691,945, 9-19-72, Cl. 100-229.00r.
Guhr, Karl; Vernaleken, Hugo; Heine, Hans-Georg; Rudolph, Hans; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Benzoin-silyl-esters. 3,636,026, 1-18-72, Cl. 260-448.8.
Guichard, Jean-Claude: *See—*
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Guichet, Niles F. Adhesive paper. 3,635,781, 1-18-72, Cl. 161-6.
Guichon, Robert Julien Joseph. Direct sluice valve for pipes conveying products at high temperature. 3,669,149, 6-13-72, Cl. 137-625.480.
Guida, Vito: *See—*
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Guidicelli, Charles, to Societe Anonyme STOP. Electromagnetic pump. 3,701,614, 10-31-72, Cl. 417-413.000.
Guidicelli, Charles, to Societe Anonyme STOP. Control system for a windshield wiper and cleaner unit. 3,701,934, 10-31-72, Cl. 318-102.000.
Guido, Jurgen. Clearance compensating mechanism, especially for valve drives of internal combustion engines. 3,670,707, 6-20-72, Cl. 123-90.570.
Guido, Louis A.: *See—*
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Guier, William. Oil well drilling apparatus. 3,682,262, 8-8-72, Cl. 175-205.000.
Guier, William. Pipe tongs. 3,703,111, 11-21-72, Cl. 81-57.340.
Guigan, Jean, to Hoffmann-La Roche Inc. Storage and distribution apparatus. 3,633,768, 1-11-72, Cl. 214-8.5.
Guigan, Jean, to Hoffmann-La Roche Inc. Apparatus for transferring liquids. 3,677,091, 7-18-72, Cl. 73-423.00a.
Guignon, Helen G.: *See—*
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Guignon, John E.; Guignon, Helen G.; and Guignon, John E., Jr. Tank washer. 3,696,825, 10-10-72, Cl. 134-167.00r.
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Guilbault, Lawrence J.; and Schwenker, David G., to General Electric Company. Method of coating slotted articles. 3,660,136, 5-2-72, Cl. 117-17.000.
Guild, Carl H., Jr.: *See—*
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Guild Metal Products, Inc.: *See—*
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Guild Molders, Inc.: *See—*
Davidson, Emil, 3,654,939.
Guildford, Leslie Henry; and Mitchell, Richard Frank, to U.S. Philips Corporation. Radiation detection system using pseudo-random reversible scanning techniques. 3,660,663, 5-2-72, Cl. 250-83.3.
Guildline Instruments Limited: *See—*
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Guilette, Kenneth J.: *See—*
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Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, 3,688,397.
Guilfoyle, Edward C., Sr. Coupling devices. 3,687,499, 8-29-72, Cl. 287-127.00r.
Guilfoyle, Le Roy F., to Parachutes Incorporated. Parachute stowage and deployment. 3,690,604, 9-12-72, Cl. 244-148.000.
Guilhem, Robert G. L.: *See—*
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Guilhem, Robert Germain; and Fouche, Yvon Pierre Jean, to Compagnie Francaise Thomson-Houston. Pulse compressor system. 3,686,572, 8-22-72, Cl. 325-321.000.
Guillamon, Alfonso. Child's stroller. 3,679,222, 7-25-72, Cl. 280-36.00r.
Guillaume, Andre: *See—*
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Guillemette, Gilbert Auguste; and Delorme, Michel Jean, to AMP Incorporated, mesne. Apparatus for applying insulating housings to electrical connectors. 3,667,102, 6-6-72, Cl. 29-203.
Guillemin, Claude; and Badin, Jean-Claude, to Produits Chimiques Pechiney-Saint-Gobain. Flame ionization detector assembly. 3,658,481, 4-25-72, Cl. 23-254.
Guillerm, Jacques. Packaging and display case for cigarette lighter. 3,682,298, 8-8-72, Cl. 206-45.310.
Guillermin, Rene; and Joly, Jean, to Societa Rhodiaceta. Process for producing yarns showing novel varying colour effects. 3,644,969, 2-29-72, Cl. 28-72.14.
Guillet, Hubert; and Le Goff, Denis, to Compagnie Generale d'Electricite. Laser synchronizing arrangement for photographic illumination. 3,643,568, 2-22-72, Cl. 95-11.5.
Guillet, Hubert; Jacob, Louis; Mouchart, Jacques; and Sturel, Bernard, to Commissariat a l'Energie Atomique. Device for improving the homogeneity of a laser beam. 3,663,087, 5-16-72, Cl. 350-150.
Guillet, Philippe Robert, to L'Oreal. Device for withdrawing samples. 3,675,491, 7-11-72, Cl. 73-425.40r.
Guillet, Remi Pierre Leon Alain: *See—*
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Guillory, Jack P.; and Cook, Charles F., to Phillips Petroleum Company. Method of testing polymer stabilizers. 3,636,348, 1-18-72, Cl. 250-52.
Guillot, Francis Jacques. Coin size tester preventing fraudulent operation of parking meters. 3,701,600, 10-31-72, Cl. 194-74.000.
Guillot, Jack, to Etablissements Bennes Marrel. Combustion chamber for gas turbine. 3,650,106, 3-21-72, Cl. 60-39.65.
Guillot, Jack, to Bennes Marrel. Device for the output shaft of a gas turbine. 3,652,178, 3-28-72, Cl. 415-110.
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Guilloud, Rudolph L., to Aluminum Company of America. Fluidized bed level control. 3,648,380, 3-14-72, Cl. 34-10.
Guilmette, F. Peter; and Madison, Norman L., to Dow Chemical Company, The. Preparation of polyfunctional acrylates. 3,655,733, 4-11-72, Cl. 260-486.
Guinan, Joseph C., to Norton Company. Foam tape applicator. 3,671,364, 6-20-72, Cl. 156-574.000.
Guinard, Paul Andre, to Etablissements Pompes Guinard. Electric pump assembly for use in pumping explosive or dangerous liquids. 3,671,152, 6-20-72, Cl. 417-422.000.
Guinard, Paul Andre. Immersible electric pump arrangements. 3,694,110, 9-26-72, Cl. 417-424.000.
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Guinn, Frank; and Baba, George P. Signal flag. 3,640,242, 2-8-72, Cl. 116-173.
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Guinter, S. Robert: *See—*
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Guisti, Medie B., to Carus Corporation. Processes for etching synthetic polymer resins with alkaline alkali metal manganate solutions. 3,652,351, 3-28-72, Cl. 156-2.
Guitard, Louis: *See—*
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Guite, Joseph D., Sr., to Eastman Kodak Company. Photographic film-unit assemblage. 3,635,139, 1-18-72, Cl. 95-13.
Gujer, Hans. Circulating device for loose materials, especially aerobic decomposing organic waste materials. 3,642,255, 2-15-72, Cl. 259-183.
Gujer, Hans. Filter conveyor band for a continuously operating filter press. 3,687,295, 8-29-72, Cl. 210-324.000.
Gukelberger, Thomas F., Jr.; and Kleinfelder, Walter J., to International Business Machines Corporation. Method of changing the physical properties of a metallic film by ion beam formation and devices produced thereby. 3,682,729, 8-8-72, Cl. 156-13.000.
Gukelberger, Werner: *See—*
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Gulba, Francis S. Portable seating apparatus. 3,700,278, 10-24-72, Cl. 297-191.000.
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Gulbins, Klaus: *See—*
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Guldenpfennig, Hans, to Berthold, H., Messinglinienfabrik und Schriftiesserei AG. Photosetting method and machine. 3,695,155, 10-3-72, Cl. 95-4.500.
Guldenpfennig, Rolf, to Reichhold-Albert-Chemie Aktiengesellschaft. Water-dilutable coating compositions containing/phenol resols etherified. 3,650,996, 3-21-72, Cl. 260-20.
Guldenpfennig, Rolf, to Reichhold-Albert-Chemie Aktiengesellschaft. Method for preparing and compositions of vinylized and/or vinylidenized epoxyresin esters. 3,661,818, 5-9-72, Cl. 260-19.0ep.
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Mozokhin, Nikolai G.; Maskenskov, Konstantin Mikhailovich; Kerimov, Niyazi Abdulkasim Ogly; Guseinova, Zuleikha Ismail Kyzy; Mekhtiev, Rafik Isrofil Ogly; and Evart, Garri Voldemarovich, 3,682,146.
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Gustafson, Manfred Wallace; and Sandrud, Torsten, to Fagersta Bruks Aktiebolag. Device for clamping a cutting insert to a seat of a toolholder body. 3,673,657, 7-4-72, Cl. 29-105.000.
Gustafson, Paul R., to United States of America, Navy. Aqueous solution of τ-aminoalkyl alkylsulfones as regenerative CO_2 absorbents. 3,632,519, 1-4-72, Cl. 252-189.
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Guthrie, William E.; and Parrinello, Anthony J. Lithographic printing plates and methods for preparation thereof. 3,679,412, 7-25-72, Cl. 96-33.000.
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Gutlhuber, Friedrich; and Kasper, Lothar. Apparatus for automatic execution of machining operations, such as welding. 3,675,841, 7-11-72, Cl. 228-25.000.
Gutlhuber, Johann: *See—*
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Gutman, Arnold D., to Stauffer Chemical Company. Dithiocarbamylacetoneoxime carbamates. 3,642,856, 2-15-72, Cl. 260-455.
Gutman, Arnold D.; and Williamson, Thomas B., to Stauffer Chemical Company. S-substituted mercapto-2,4-dinitrophenyl acetate acaricides. 3,644,640, 2-22-72, Cl. 424-311.
Gutman, Arnold D., to Stauffer Chemical Company. Oximinophosphonodithioates. 3,652,736, 3-28-72, Cl. 260-940.
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Gutman, Arnold D., to Stauffer Chemical Company. Certain oxime esters. 3,655,761, 4-11-72, Cl. 260-566.
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Gutman, Arnold D.; and Freiberg, Ashley H., to Stauffer Chemical Company. Bis-phosphoroamides, bis-phosphonoamides, and phosphono-phosphoroamides useful as insecticides and miticides. 3,692,900, 9-19-72, Cl. 424-205.000.
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Gutman, Nathan; Moser, Raymond L.; Oldenburg, Dorrance; and Sunderlin, Donald E., to Caterpillar Tractor Company. Drive mechanism for tree harvesters. 3,669,161, 6-13-72, Cl. 144-3.
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Gutmann, Fredrick T., to Lockheed Aircraft Corporation. Slack belt rotation sensor. 3,636,702, 1-25-72, Cl. 58-145.
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Gutweiler, Klemens: *See*—
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Guyer, Vernon L.; and Schafer, Robert J., to Ashland Oil, Inc. Curing of foundry molds and cores by induction heating. 3,637,577, 1-25-72, Cl. 260-38.

Guyette, Frank L.: *See*—
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Guyette, Franklin L.; and Frank, Donald R., to Eastman Kodak Company. Control circuitry for assisting electrostatographic compensation. 3,700,323, 10-24-72, Cl. 355-3.000.

Guyonnet, Marcel Aime Rene, to Fromageries Bel-La Vache qui Rit. Device for dispensing a fluid substance, and more particularly melted cheese. 3,693,674, 9-26-72, Cl. 141-242.000.

Guyot, Claude: *See*—
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Guyot, Raymond, to Fiverel, Societe Civile d'Etudes et de Recherches. Glass cords and tires and similar rubber articles reinforced therewith. 3,690,363, 9-12-72, Cl. 152-359.000.

Guyton, David. Optical system for imaging Scheiner apertures in an optometer. 3,634,003, 1-11-72, Cl. 351-17.

Guyton, David. Cylindrical lens systems for simultaneous bimeridional measurement in a lens measuring instrument. 3,664,631, 5-23-72, Cl. 351-27.

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Guyton, James H.; and Lammers, Arthur R., to General Motors Corporation. Tape transport assembly for cassette tape players having fast forward and fast reverse modes. 3,695,552, 10-3-72, Cl. 242-198.000.

Guzak, John, Jr., to SCM Corporation. Data handling system. 3,648,247, 3-7-72, Cl. 340-172.5.

Guzak, John, Jr., to SCM Corporation. High speed printer including changeable code means. 3,673,957, 7-4-72, Cl. 101-93.

Guzdar, Adi R.; Erickson, Alve J.; and Harvey, Andrew C., to United States of America, Air Force. Centrifuge agglomerator-separator. 3,662,524, 5-16-72, Cl. 55-400.000.

Guzik, Rudolph P.: *See*—
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Guzzi, Alberto; Magagnoli, Remo; and Vittore, Lorenzo, to Societa per Azioni Ferrania. Photographic silver halide elements having magenta-colored coupler dyes. 3,647,468, 3-7-72, Cl. 96-100.

Guzzi, Alberto; and Magagnoli, Remo. Photographic color couplers. 3,692,833, 9-19-72, Cl. 260-559.00s.

Guzzi, Umberto: *See*—
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Gwathmey, Edward S.; and Embree, John M., to Teledyne, Inc. Rotation, climbout, and go-around control system. 3,681,580, 8-1-72, Cl. 235-150.220.

Gwilliam, Ralph Derek, to English Clays Lovering Pochin & Company Limited. Tube pressure filters. 3,687,287, 8-29-72, Cl. 210-79.000.

Gwillim, David Thomas; and Whiting, Robin Joseph, to Plessey Handel und Investments AG. Incremental drive mechanisms. 3,700,154, 10-24-72, Cl. 226-156.000.

Gwinn, J. S., to Phillips Petroleum Company. High impact polypropylenes. 3,689,595, 9-5-72, Cl. 260-876.00b.

Gwinner, Walter C., to Zapata Industries, Inc., mesne. Compositions for molding sealing liners or the like having contrasting colors. 3,705,122, 12-5-72, Cl. 260-23.9xa.

Gwozdz, Joseph W., to McKinney Manufacturing Company. Suspended display package. 3,695,418, 10-3-72, Cl. 206-45.330.

Gwyn, Childress B., Jr., to Contacts, Incorporated. Method and apparatus for feeding discrete parts to a cold heading machine. 3,666,160, 5-30-72, Cl. 228-3.000.

Gwyn, Childress B., Jr., to Contacts Incorporated. Bonding metals without brazing alloys. 3,667,110, 6-6-72, Cl. 29-494.

Gwyn, Childress B., Jr., to Contacts, Incorporated. Closing wire terminals. 3,686,746, 8-29-72, Cl. 29-488.000.
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Gyi, Ko Ko, to Burroughs Corporation. Pneumatic head actuating system having automatic control for reading and writing through heads. 3,641,527, 2-8-72, Cl. 340-174.1.
Gyi, Maung, to Ampex Corporation. Angle modulated wave demodulation apparatus. 3,659,276, 4-25-72, Cl. 340-174.1.
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Gyori, Louis, to Marathon Golf Cars Ltd. Electrical control apparatus. 3,696,279, 10-3-72, Cl. 318-139.000.
Gyori, Louis. Electrical control system. 3,699,414, 10-17-72, Cl. 318-139.000.
Gyory, Emeric J.; and Teichmann, Otmar E., to Borg-Warner Corporation. Lip type seal. 3,671,048, 6-20-72, Cl. 277-227.000.
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Gyugyi, Laszlo, to Westinghouse Electric Corporation. Power frequency changer with controllable input displacement factor. 3,707,665, 12-26-72, Cl. 321-5.000.
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Haaf, William R., to General Electric Company. Flame retardant composition of polyphenelene ether, styrene resin and phosphorus. 3,663,654, 5-16-72, Cl. 260-874.
Haaften, Egbert Van, to Bulova Watch Company, Inc. Tuning-fork type electronic clock. 3,693,342, 9-26-72, Cl. 58-23.0tf.
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Haag, Laurence H., to Polymer Corporation, The. Powdered coating compositions and the method for their application. 3,645,960, 2-29-72, Cl. 260-37.
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Haagedoorn, Anton F. Dental bridge cleaner dispenser. 3,650,392, 3-21-72, Cl. 206-56.
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Haak, Alfred Romuald; and Stichnoth, Wolfgang. Lubricating grease. 3,684,726, 8-15-72, Cl. 252-33.200.
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Haas, Charles H., to Budd Company, The. Method of making flexible brake bands. 3,670,392, 6-20-72, Cl. 29-411.000.
Haas, Charles William, Jr., to Bell Telephone Laboratories, Incorporated. Telephone line testing arrangement. 3,662,125, 5-9-72, Cl. 179-175.2.
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Haas, Edgar; and Kottsieper, Edward, to Schwabe, Herman, Inc. Balanced and double action cutting apparatus. 3,682,029, 8-8-72, Cl. 83-69.000.
Haas, Frank C., to Oil Shale Corporation, The. Vanadium recovery process. 3,656,936, 4-18-72, Cl. 75-101.
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Hafner, Theodore. Frequency adjustment for two-way video transmission. 3,706,996, 12-19-72, Cl. 343-186.000.
Hafner, Walter, to Consortium fur Ehectrochemische Industrie G.m.b.H. Process for manufacturing imidazoles. 3,654,276, 4-4-72, Cl. 260-268.
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Haga, Teruhide; Yamaguchi, Hisashi; and Hirao, Yotaro, to Konishiroku Photo Industry Co., Ltd. Silver halide emulsion fog inhibited with quaternary ammonium, triazole and tetrazaindene compounds. 3,671,255, 6-20-72, Cl. 96-109.000.
Hagadorn, Margery F., to Honeywell Inc. Tape cleaning device. 3,683,445, 8-15-72, Cl. 15-308.000.
Hagan, Edward Francis: *See—*
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Hagan, James J.; Chanod, Edward E.; Feldman, Robert S.; and Cords, Helmuth, to Squibb, E. R., & Sons, Inc. Process for removal of particle-forming proteins from blood sera. 3,706,660, 12-19-72, Cl. 210-21.000.
Hagan, James P., to Image Systems, Inc., mesne. Selector for edge notch coded sheet type items. 3,631,978, 1-4-72, Cl. 209-80.5.
Hagan, Melvin A.; and Batista, Roy I., to TRW Inc. Tantalum clad niobium. 3,706,539, 12-19-72, Cl. 29-195.000.
Hagans, Fredrick S.: *See—*
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Hagdorn, Manfred Otto, to Aktiebolaget Electrolux. Valve means for controlling discharge of waste liquid into pneumatic sewage disposal system. 3,654,953, 4-11-72, Cl. 137-395.
Hagdorn, Manfred Otto; and Sandberg, Kjell T-son, to Aktiebolaget Electrolux. Reciprocating engine. 3,668,974, 6-13-72, Cl. 91-242.000.
Hage, Carl H., to General Fireproofing Company, The. Table construction. 3,636,894, 1-25-72, Cl. 108-156.
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Hage, Carl H., to General Fireproofing Company, The. Drawer divider. 3,656,651, 4-18-72, Cl. 220-22.3.
Hagedorn, Ferdinand; Wedemeyer, Karlfried; Scherhag, Bernhard; and Hausweiler, Arnold, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of cyanopyridines. 3,686,194, 8-22-72, Cl. 260-294.900.
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Hagel, Carl Heinrich. Vehicle parking apparatus with an annular elevator platform. 3,664,523, 5-23-72, Cl. 214-16.1.
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Hageman, Carlton V.; and Rana, Victoriano F., to Harris-Intertype Corporation. Apparatus and method for separating signatures in a gatherer. 3,650,525, 3-21-72, Cl. 271-29.

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Hageman, Howard A.; Gevirtz, Arthur H.; and Von Schmeling, Bogislav, to Uniroyal, Inc. Succinamides. 3,632,646, 1-4-72, Cl. 260-559.
Hageman, Howard A., to Uniroyal, Inc. Sulfur-containing polyaryl polyphenolic compounds and process. 3,668,258, 6-6-72, Cl. 260-609.
Hageman, Howard A., to Uniroyal, Inc. Polyphenolic disulfides and method for producing same. 3,686,325, 8-22-72, Cl. 260-608.000.
Hageman, Kenneth C. Educational device. 3,685,172, 8-22-72, Cl. 35-48.00r.
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Hagemann, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. s-Triazine derivatives. 3,682,909, 8-8-72, Cl. 260-248.0ns.
Hagemann, Hermann; Muller, Erwin; and Fischer, Peter, to Farbenfabriken Bayer Aktiengesellschaft. Stabilization of organic isocyanates. 3,692,813, 9-19-72, Cl. 260-453.0sp.
Hagemann, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Reaction of phosgene and cyanogen chloride. 3,699,162, 10-17-72, Cl. 260-544.00c.
Hagemann, Hermann, to Bayer Aktiengesellschaft. Isocyanates and preparation thereof. 3,706,778, 12-19-72, Cl. 260-455.00r.
Hagemann, Walter, to Siemen & Hinsch mbH. Self-priming lateral channel centrifugal pump. 3,649,131, 3-14-72, Cl. 415-182.
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Hagemeyer, Gunther; and Hennig, Eberhardt, to Kochs Adlernahmaschinen Werke AG. Device for withdrawing sewn workpieces from a sewing machine. 3,656,442, 4-18-72, Cl. 112-214.
Hagemeyer, Hugh J., Jr.; and Edwards, Marvin B., to Eastman Kodak Company. Preparation of α-olefin block copolymers. 3,639,515, 2-1-72, Cl. 260-878.
Hagemeyer, Hugh J., Jr.; and Robinson, Alfred G., III, to Eastman Kodak Company. Hexahydro-3,3,6,6-tetra alkylfuro(3,2-b)furan-2,5-diol. 3,671,550, 6-20-72, Cl. 260-347.800.
Hagemeyer, Hugh J., Jr.; and Goss, Harry F., to Eastman Kodak Company. Butene recovery. 3,671,603, 6-20-72, Cl. 260-677.00a.
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Hagemeyer, Hugh J., Jr.; Hogan, Harold E.; and Johnson, Sam H., Jr., to Eastman Kodak Company. Hydrocarbon dac-b resin prepared by polymerizing dac-b using two polymerization temperature ranges followed by hydrogenation. 3,701,760, 10-31-72, Cl. 260-82.000
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Hagen, Donald H.; and Leopold, Donald L., to Ridge Runner, Inc. Control for hydraulic forward-reverse steering clutches. 3,643,769, 2-22-72, Cl. 192-51.
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Hagen, Herrmann; Fehler, Adolf; and Greune, Christian, to Motoren- und Turbinen-Union Munchen GmbH. Gas turbine engine. 3,657,886, 4-25-72, Cl. 60-39.74.
Hagen, Kenneth G., to General Electric Company. Underwater diving mask. 3,672,750, 6-27-72, Cl. 351-43.000.
Hagen, Marcus W., to Outboard Marine Corporation. Outboard motor with pre-select tilt lock. 3,666,218, 5-30-72, Cl. 248-4.
Hagen, Oscar M. Treadmill exercising device with yieldable belt support. 3,689,066, 9-5-72, Cl. 272-69.000.
Hagen, Oskar, to Westinghouse Electric Corporation. Controlled leakage centrifugal pump. 3,652,179, 3-28-72, Cl. 415-111.
Hagen, Siegfried Hendrik, to U.S. Philips Corporation. Voltage-dependent resistors. 3,670,214, 6-13-72, Cl. 317-234.
Hagen, Thomas E., to Ferroxcube Corporation. Transistorized current switch for memory systems. 3,648,060, 3-7-72, Cl. 307-215.
Hagen, William Dobson, to Dominion Bridge Company Limited. Structural steel conveyor line. 3,673,658, 7-4-72, Cl. 29-155.005.
Hagen, Wolfgang, to International Standard Electric Corporation. Contact spring arrangement for electromagnetic multi-contact relays. 3,657,673, 4-18-72, Cl. 335-199.
Hagenbach, Robert J., to Xerox Corporation. Method for producing glass beads for electrostatographic developers. 3,658,500, 4-25-72, Cl. 65-21.000.
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Hagenlocher, Arno K., to GTE Laboratories Incorporated. Method and apparatus for forming an ohmic contact to high resistivity silicon. 3,637,972, 1-25-72, Cl. 219-107.
Hagenstad, Roy W. Rotary cultivator assembly. 3,650,334, 3-21-72, Cl. 172-540.
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Hager, Clarence H., to Modern Caster Co., Inc. Tire storage rack. 3,700,113, 10-24-72, Cl. 211-23.000.
Hager, Donald Gene; and Rizzo, Joseph Leo, to Calgon Corporation. Cyanide removal. 3,650,949, 3-21-72, Cl. 210-36.
Hager, Frederick M., to Uniroyal Ltd. Method of treating pentachlorophenol. 3,692,561, 9-19-72, Cl. 117-100.00a.
Hager, Ira Vincent. Aircraft docking guide. 3,690,599, 9-12-72, Cl. 244-114.00r.
Hager, Mark H.; and Adams, Clarence R., to Slick Corporation, The. Drapery hook. 3,636,587, 1-25-72, Cl. 16-87.2.
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Hager, Thomas C., to Du Pont de Nemours, E. I., and Company. Process for producing continuous round jacketed lightguides. 3,646,186, 2-29-72, Cl. 264-174.
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Hagerty, William Kenneth. Apparatus for automobile damage correction. 3,680,353, 8-1-72, Cl. 72-420.000.
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Hagfors, Norman R., to Medtronic Inc. Implatable electrode. 3,654,933, 4-11-72, Cl. 128-418.
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Haggis, Geoffrey Arthur; Jones, Michael Edward Benet; and Knight, Michael Horace, to Imperial Chemical Industries Limited. Carbon fibre-reinforced polyurethane composites. 3,669,920, 6-13-72, Cl. 260-37.00n.
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Haglund, Bernard F.; and Salvarezza, Robert M., to Coast Marine & Industrial Supply Inc. Quick-release storage of a life ring. 3,675,257, 7-11-72, Cl. 9-14.000.
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Hahn, Burkhard J.; Reise, Rolf M. E.; and Raschka, Walter R., to Salzdetfurth, A.G. Process for recovering low-sulfate bischoffite. 3,642,455, 2-15-72, Cl. 23-304.
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Hahn, Emil H., to Lambert Brake Corporation, mesne. Caliper type brake structure. 3,651,897, 3-28-72, Cl. 188-72.2.
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Hahn, Granville J., to Cosden Oil & Chemical Company. Polymer pigmentation. 3,632,369, 1-4-72, Cl. 117-16.
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Halfon, Albert, to Air Reduction Company, Incorporated. Undersea life support system. 3,690,040, 9-12-72, Cl. 55-46.000.
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Halinski, Michael J.; and Wanschek, Larry J., to Sun Electric Corporation. Frequency-sensitive triggering techniques. 3,662,192, 5-9-72, Cl. 307-293.
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Halkyard, Harold Lees; Bliss-Hill, Herbert Brian; and Tewsley, William, to Stibbe Machinery Limited. Machine for producing squared-off plots for use in programming knitting and other textile machines. 3,693,168, 9-19-72, Cl. 340-172.500.
Hall, Alan Frank, to Imperial Chemical Industries Limited. Method of sealing or jointing. 3,686,375, 8-22-72, Cl. 264-32.000.
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Hall, Arthur E. Flagg staff anchor. 3,700,196, 10-24-72, Cl. 248-44.000.
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Hall, Bartley E., to Auto-Swage Products, Inc. Method of forming electrical connectors. 3,665,600, 5-30-72, Cl. 29-629.
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Hall, David W., to Marathon Oil Company. Recovery of basic organic materials from their hydrolysis products. 3,663,643, 5-16-72, Cl. 260-681.
Hall, David W.; and Hurley, Ed, Jr., to Marathon Oil Company. Preparation of halodienes. 3,689,580, 9-5-72, Cl. 260-655.00r.
Hall, David W.; Lindholm, John A.; Romankiw, Lubomyr T.; and Schmeckenbecher, Arnold F., to International Business Machines Corporation. Process for electrolessly plating magnetic thin films. 3,702,263, 11-7-72, Cl. 117-240.000.
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Hall, Garth O., to Universal Oil Products Company. Combination hydraulic-pneumatic suspension system for vehicle occupants. 3,668,870, 6-13-72, Cl. 60-54.50r.
Hall, George D., to Rockwell Manufacturing Company. Permanent magnet motors. 3,686,524, 8-22-72, Cl. 310-154.000.
Hall, George Ernest Herbert, to Sheepbridge Stokes Limited. Cylinder liner. 3,641,882, 2-15-72, Cl. 92-171.
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Hall, Harold H., Sr. Fishing rod holder for boats. 3,671,001, 6-20-72, Cl. 248-43.000.
Hall, Harold R., to Libbey-Owens-Ford Company. Method of bending glass sheets. 3,676,098, 7-11-72, Cl. 65-106.000.
Hall, Harry P., to Diversified Metals, Inc. Trailer construction. 3,690,490, 9-12-72, Cl. 214-506.000.
Hall, Henry B.; and Hill, Norman W., to International Telephone and Telegraph Corporation. Thermostatically controlled liquid heating tank. 3,638,619, 2-1-72, Cl. 122-13.
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Hall, John A., Jr.; and Mc Cann, John J., to Polaroid Corporation. Electrically responsive light filter. 3,692,388, 9-19-72, Cl. 350-312.000.
Hall, John A., Sr., to Weatherford Oil Tool Company, Inc. Centralizer. 3,643,739, 2-22-72, Cl. 166-241.
Hall, John B., to International Flavors & Fragrances, Inc. Novel fragrance materials, chemical intermediates, and processes. 3,636,113, 1-18-72, Cl. 260-566.
Hall, John B., to International Flavors & Fragrances Inc. Indanol derivatives and processes for producing same. 3,636,165, 1-18-72, Cl. 260-617.
Hall, John B., to International Flavors & Fragrances Inc. Hydrogenated indane derivatives and processes for producing same. 3,636,176, 1-18-72, Cl. 260-666.
Hall, John B., to International Flavors & Fragrances Inc. Indane derivatives. 3,647,826, 3-7-72, Cl. 260-348.
Hall, John B., to International Flavors & Fragrances Inc. Alkadienyl pyridines and pyrazines as perfumes. 3,669,908, 6-13-72, Cl. 252-522.000.
Hall, John B.; and Vock, Manfred, to International Flavors & Fragrances Inc. Flavoring methods and compositions containing 3-phenyl pentenals. 3,694,232, 9-26-72, Cl. 99-140.00r.
Hall, John B., Jr.; Tung, Yi; and Winn, Lavern E., to United States of America, National Aeronautics and Space Administration. Liquid waste feed system. 3,670,890, 6-20-72, Cl. 210-104.000.
Hall, John Matthew, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the. Jet nozzle. 3,704,829, 12-5-72, Cl. 239-265.350.
Hall, John N., to Hercules Incorporated. Method for forming blow molded articles of oriented thermoplastic material. 3,651,186, 3-21-72, Cl. 264-94.
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Hall, John P., to Baxter Laboratories, Inc. Needle guard. 3,658,061, 4-25-72, Cl. 128-214.4.
Hall, Joseph J., to Johnson & Johnson. Winding device. 3,702,687, 11-14-72, Cl. 242-56.900.
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Hall, Kathleen E.; and Wolfram, Leszek J., to Gillette Company, The. Method of bleaching hair or wool. 3,632,295, 1-4-72, Cl. 8-111.
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Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., to Ciba-Geigy Corporation. Polysubstituted dihydropyrenes. 3,697,585, 10-10-72, Cl. 260-488.00b.
Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., to Ciba-Geigy Corporation. Polysubstituted dihydropyrenes. 3,697,592, 10-10-72, Cl. 260-562.00r.
Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., to Ciba-Geigy Corporation. Polysubstituted dihydropyrenes. 3,697,604, 10-10-72, Cl. 260-618.00f.

Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., to Geigy Chemical Corporation. Polysubstituted dihydropyrenes. 3,705,918, 12-12-72, Cl. 260-464.000.
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Hall, Maclin S., to Owens-Illinois, Inc. Visual display and memory system. 3,686,686, 8-22-72, Cl. 340-324.00r.
Hall, Marvin J., to United States of America, Army. Air current operated land mine. 3,680,482, 8-1-72, Cl. 102-8.000.
Hall, Maurice B., 1/3 to Bowling, Harold F. and 1/3 to Gitlin, Edward E. Clock scale demonstrator. 3,670,428, 6-20-72, Cl. 35-39.000.
Hall, Michael Edgar; and Negus, Malcolm, to Fibreglass Limited. Polyol/lactam/synthetic resin modified urea-formaldehyde resins. 3,637,549, 1-25-72, Cl. 260-17.3.
Hall, Myron W.; and Chapman, Harvey A., to Minnesota Mining and Manufacturing Company. Elastomeric shoe sole mold. 3,632,278, 1-4-72, Cl. 425-450.
Hall, Nelson Lee; and Slocum, Donald Hillman, to Du Pont de Nemours, E. I., and Company. Process for manufacture of an improved multi-colored plastic building product. 3,706,825, 12-19-72, Cl. 264-75.000.
Hall, Norman T., to Liquid Nitrogen Processing Corporation. Process for production of glass-filled thermoplastic pellets suitable for blending with thermoplastic. 3,702,356, 11-7-72, Cl. 264-141.000.
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Hall, Raymond Frederick; and Mainard, Douglas Raymond, to U.S. Philips Corporation. Glow discharge display device including an insulating envelope block with an array of cavities therein. 3,699,377, 10-17-72, Cl. 313-204.000.
Hall, Raymond John; and Webb, Derek James, to Broom and Wade Limited. Control means for reversible fluid pressure operated motors. 3,635,605, 1-18-72, Cl. 417-315.
Hall, Richard E.; and Segar, Lawrence P., to International Business Machines Corporation. Dynamic discrimination reference level generator for a parallel channel optical document scanner. 3,701,099, 10-24-72, Cl. 340-146.3ag.
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Hall, Richard H.; Roberts, Carleton W.; Sikkema, Andrew J.; and Lawson, Junior J., to Dow Chemical Company, The. Transparent compositions of vinyl halide polymers and tertiary alkyl styrene-a crylonitrile-butadiene rubber polymers and method of making the ame. 3,641,208, 2-8-72, Cl. 260-876.
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Hall, Robert D. Telescoping camper cabin for trucks. 3,652,119, 3-28-72, Cl. 296-23.
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Hall, Robert N., to General Electric Company. Removal of acceptor impurities from high purity germanium. 3,671,330, 6-20-72, Cl. 148-1.600.
Hall, Robert T.; and Justen, Donald L., to Kelsey-Hayes Company. Bottom pour stopper. 3,643,680, 2-22-72, Cl. 137-331.
Hall, Roger D.: *See—*
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Hall, Roger D.; and Clasby, David N., to Bendix Corporation, The. Low profile antenna mounted on a watercraft. 3,680,131, 7-25-72, Cl. 343-710.000.
Hall, Roger L.; McKenney, Gordon M., Jr.; and Wall, Alfred J. Light ray projector and target. 3,655,192, 4-11-72, Cl. 273-101.1.
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Hall, Roger P., to SCM Corporation. Process for curing air-inhibited resins by radiation. 3,644,161, 2-22-72, Cl. 156-272.
Hall, Roger P., to SCM Corporation. Adhering resins to substrates, especially metal, by radiation. 3,655,481, 4-11-72, Cl. 156-272.
Hall, Roger P., to SCM Corporation. Irradiation lamination process for air-inhibited polymers. 3,658,620, 4-25-72, Cl. 156-272.
Hall, Roger P., to SCM Corporation. Method of bonding a resinous film to a substrate using high energy radiation. 3,666,591, 5-30-72, Cl. 156-272.
Hall, Roger P.; Pratt, Ivor; and Young, Richard A., to SCM Corporation. Adhering resins to substrates, especially metal, by radiation. 3,669,796, 6-13-72, Cl. 156-272.000.
Hall, Roger P., to SCM Corporation. Adhering resins to substrates, especially metal, by radiation. 3,669,825, 6-13-72, Cl. 161-188.000.
Hall, Roger Smith, to Baker Perkins Jaxons Limited. Feeding of machines. 3,667,143, 6-6-72, Cl. 38-143.000.
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Hall, Ronald Gibson. Air-gun projectiles. 3,649,020, 3-14-72, Cl. 273-106.
Hall, Roy O., Jr. Resistance-bridge security system detecting resistance changes in either direction. 3,653,023, 3-28-72, Cl. 340-285.
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Hall, Thomas, A. Water tester for pools. 3,692,490, 9-19-72, Cl. 23-253.00r.
Hall, Thomas H., Jr.; Cottrill, Jon R.; and Dubble, Roger D., to Anchor Hocking Corporation. Means for vapor coating. 3,658,304, 4-25-72, Cl. 261-23.
Hall, Thomas O., Jr.; and Peck, William G., to Bausch & Lomb Incorporated. Control system and code for a graphical plotting machine or like apparatus. 3,702,922, 11-14-72, Cl. 235-61.60r.
Hall, Walter Dennis; and Charles, Malcolm Jean, to Super Mold Corporation. Tire conditioning apparatus. 3,635,610, 1-18-72, Cl. 18-1.
Hall, Walter J., to GAF Corporation. Slide projector indexing means. 3,661,451, 5-9-72, Cl. 353-117.
Hall, Wendell H. Teaching system. 3,680,224, 8-1-72, Cl. 35-9.00e.
Hall, William Bernard: *See—*
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Hall, William D.; and Shaefer, Lewis H., to KMS Industries, Inc. Pressure sensitive fingerprint input for identification apparatus. 3,677,223, 7-18-72, Cl. 118-10.000.
Hall, William D.; and Burzan, Vernon J., to KMS Industries, Inc. Clean window assembly for real time fingerprint input to fingerprint identification system. 3,677,623, 7-18-72, Cl. 350-321.000.
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Hallanger, Lawrence W., to United States of America, Navy. Method of measuring the relative depth between two or more underwater locations. 3,680,216, 8-1-72, Cl. 33-301.000.
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Hallberg, John E., to Industrial Propane, Inc. Diesel booster. 3,698,365, 10o17-72, Cl. 123-121.000.
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Haller, Harry, to Chance Brothers Limited. Glass gripping devices. 3,643,848, 2-22-72, Cl. 226-186.
Haller, Ivan; and Huggins, Harold A., to International Business Machines Corporation. Additive for liquid crystal material. 3,656,834, 4-18-72, Cl. 350-150.
Haller, James Gilbert. Scented fireplace fuel. 3,660,055, 5-2-72, Cl. 44-6.
Haller, James R. Polyimide compositions and metallic articles coated therewith. 3,682,960, 8-8-72, Cl. 260-32.60n.
Haller, James R., to Minnesota Mining and Manufacturing Company. Insulated electrical conductors coated with polyimide-amide modified polyimide. 3,702,788, 11-14-72, Cl. 117-230.000.
Haller, John, to Federal-Mogul Corporation. Method of producing substantially solid extrusions from powdered metal. 3,631,583, 1-4-72, Cl. 29-420.5.
Haller, John, to Federal-Mogul Corporation. Method of making a composite high-temperature valve. 3,648,343, 3-14-72, Cl. 29-157.1.
Haller, John, to Federal-Mogul Corporation. Method of producing elongated highly densified powdered metal articles. 3,664,008, 5-23-72, Cl. 29-420.
Haller, John, to Federal-Mogul Corporation. Method of making composite wear resistant articles, such as face seals. 3,666,456, 5-30-72, Cl. 75-208.000.
Haller, John, to Federal-Mogul Corporation. Fluid-conducting hot-forging die and method of making the same. 3,705,509, 12-12-72, Cl. 72-45.000.
Haller, Renee-Marie, to Etablissement Prairial. Contraceptive cervical obturator. 3,690,316, 9-12-72, Cl. 128-130.000.
Haller, Willi, to Hengstler, J., K.G. Data-recording apparatus. 3,644,711, 2-22-72, Cl. 235-61.1.
Haller, Wolfgang. Process for the separation of blood components, particularly of immunologically active globulins from other components. 3,637,489, 1-25-72, Cl. 210-31.
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Hallerback, Stig Lennart, to SKF Industrial Trading and Development Company N.V. Supporting and sealing member for rolling bearings. 3,658,395, 4-25-72, Cl. 308-187.2.
Hallerback, Stig Lennart, to SKF Industrial Trading and Development Company, N.V. Rolling bearings comprising annular washers or cylindrical sleeves provided with a number of ball grooves. 3,675,979, 7-11-72, Cl. 308-230.000.
Hallerback, Stig Lennart, to Trelleborgs Gummifabriks Aktiebolag. Linings for rotary mills. 3,680,799, 8-1-72, Cl. 241-183.000.
Hallerback, Stig Lennart. Method for manufacturing rotary machines. 3,694,909, 10-3-72, Cl. 29-596.000.
Hallerback, Stig Lennart, to SKF Industrial Trading and Development Company NV. Bearing support and cooling means. 3,701,911, 10-31-72, Cl. 310-60.000.
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Hallett, Michael Henry: *See—*
Flinders, Michael; Gardner, Peter Lycett; Hallett, Michael Henry; Jones, John W.; Minshull, John Francis; and Taylor, Keith Graham, 3,646,516.
Hallewell, Bernard Frederick, to Toolmasters Limited. Form copying method and apparatus. 3,683,560, 8-15-72, Cl. 51-100.00r.
Halley, Claude Ansbert Gaston Gustave Pierre, 1/2 to Paul Claude, Marie Touvier-Berthet. Recording system for simultaneously projecting photographic images with a recorded commentary. 3,637,950, 1-25-72, Cl. 179-100.2.
Halley, James W.; Grimes, Donald E.; Mills, Norman T.; and Yalamanchili, Krishna Rao, to Inland Steel Company. Continuous casting slag and method of making. 3,649,249, 3-14-72, Cl. 75-96.
Halley, James W.; Grimes, Donald E.; Mills, Norman T.; and Yalamanchili, Krishna Rao, to Inland Steel Company. Slag use in continuous casting of steel. 3,704,744, 12-5-72, Cl. 164-82.000.
Hallford, Ben R.; and Bach, Carl E., to Collins Radio Company. Lid interaction protected shield enclosed dielectric mounted microstrip. 3,638,148, 1-25-72, Cl. 333-84.
Hallford, Ben R., to Collins Radio Company. Microwave balanced mixer circuit. 3,659,206, 4-25-72, Cl. 325-446.000.
Hallford, Ben R., to Collins Radio Company. Microstrip RF variable attenuator. 3,659,233, 4-25-72, Cl. 333-81.00a.
Hallford, Ben R., to Collins Radio Company. Microstrip diode high isolation switch. 3,678,414, 7-18-72, Cl. 333-7.000.
Hallford, Ben R., to Collins Radio Company. RF rejection filter. 3,678,433, 7-18-72, Cl. 333-73.00s.
Hallhagen, Sven Goran: *See—*
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Hyde, Walter E., 3,693,408.
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Malone, William T., 3,687,203.
Manes, Dewey K.; Farley, David L.; and Wray, Gary Q., 3,646,995.
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Moore, Paul A.; and Boyles, Homer T., 3,638,681.
Paramore, Edwin L.; O'Loughlin, Bernard T.; and Brown, Thomas L., 3,672,173.
Pittman, Forrest C., 3,695,301.
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Seay, Orum E.; and Shelton, Robert O., 3,647,088.
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Halliday, William; and Haslett, Roy William George, to Smiths Industries Limited. Echo-responsive apparatus. 3,652,978, 3-28-72, Cl. 340-3.
Hallier, Bernard Lucien Desire: *See—*
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Halling, Roy Walker Lee; and Kriisa, Paul, to Export Tool & Welding Co., Limited. Metal spinning machine. 3,672,317, 6-27-72, Cl. 113-1.00e.
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Hallman, John Ray, Jr. Digital tone generator system for electronic organ employing a single master oscillator. 3,702,370, 11-7-72, Cl. 84-1.010.
Hallman, Newt M., to Universal Oil Products Company. Hydroprocessing product separation. 3,666,658, 5-30-72, Cl. 208-103.
Hallman, Newt M., to Universal Oil Products Company. Fractionator reboiling by utilizing convection heat. 3,682,780, 8-8-72, Cl. 203-22.000.
Hallman, Newt M., to Universal Oil Products Company. Method for conditioning a wet regenerated platinum reforming catalyst. 3,684,698, 8-15-72, Cl. 208-140.000.
Hallman, Newt M., to Universal Oil Products Company. Hydrogen-cascade process for hydrocarbon conversion. 3,691,059, 9-12-72, Cl. 208-80.000.
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Teeg, Robert O.; and Hallman, Robert W., 3,650,680.
Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Method for making a pattern on a support member by means of actinic radiation sensitive element. 3,637,377, 1-25-72, Cl. 96-35.

Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Radiation sensitive element, provided with flexible base and methods for exposing and processing the same. 3,637,378, 1-25-72, Cl. 96-35.

Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Method for making a relief pattern by means of electromagnetic radiation and heat sensitive elements. 3,637,379, 1-25-72, Cl. 96-36.

Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Methods for electrochemically making metallic patterns by means of radiation sensitive elements. 3,637,380, 1-25-72, Cl. 96-35.

Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Radiation sensitive self-revealing elements and methods of making and utilizing the same. 3,637,381, 1-25-72, Cl. 96-35.

Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Radiation sensitive elements and etch processes using the same. 3,637,383, 1-25-72, Cl. 96-36.

Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Methods for making lithographic offset plates by means of electromagnetic radiation sensitive elements. 3,650,743, 3-21-72, Cl. 96-33.

Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Electrical components, electrical circuits, and the like, and methods for making the same by means of radiation sensitive elements. 3,663,224, 5-16-72, Cl. 96-38.4.

Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Electromagnetic radiation sensitive elements. 3,707,372, 12-26-72, Cl. 96-35.000.

Hallman, Russell H.; Keir, John B.; and Patritto, Lawrence J., to Sperry Rand Corporation. Bucket loader control system. 3,650,425, 3-21-72, Cl. 214-762.

Hallmann, Hermann, to MRT Magnet-Regeltechnik GmbH. Magnetically operable blocking and control device. 3,681,727, 8-1-72, Cl. 335-253.000.

Hallmark, Bobby Joe, to Gearhart-Owen Industries, Inc. Sidewall well-formation fluid sampler. 3,677,080, 7-18-72, Cl. 73-155.000.

Hallmark Cards, Incorporated: *See—*
Kolster, Edward J.; and Ira, George O., 3,683,484.
Renoe, Ronald R., 3,702,495.
Spaw, Eugene S.; McGrath, Paul F.; and Otto, Stanley W., 3,669,014.
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Hallock, David D.: *See—*
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Hallock, David D.; and Halsted, Abel S., to Hughes Aircraft Company. Gas laser with discharge and gas return paths through a common cylindrical body. 3,670,262, 6-13-72, Cl. 331-94.500.

Hallopoff, William E.: *See—*
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Halloran, William X. Injection apparatus. 3,662,754, 5-16-72, Cl. 128-221.

Halloran, William X. Orthopedic drill guide apparatus. 3,704,707, 12-5-72, Cl. 128-92.0eb.

Halls, Kenneth F.; and Brickley, Alfred H., to Space Tool, Inc. Adjustable jaw wrench. 3,640,159, 2-8-72, Cl. 81-165.

Hallstedt, Carl Goran Albin: *See—*
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Hallstedt, Karl Goran Albin: *See—*
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Hallstrom, Ingemar Gustaf Terje; Jarleborg, Martin Holger; and Tarnblom, Stig-Goran Harry, to Fagersta Bruks AB. High-strength low alloy ferritic steel small-gauge wire. 3,674,570, 7-4-72, Cl. 148-12.000.

Hallstrom, Olof Henrik. Cargo-conveying cartridge for pneumatic cylindrical tube conveying system. 3,634,861, 1-11-72, Cl. 243-32.

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Halm, Frank J., III, to Kaman Aerospace Corporation. Assembly for use with conveyor system for separating and diverting objects. 3,693,778, 9-26-72, Cl. 198-29.000.

Halm, Gunther: *See—*
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Halm Instrument Co., Inc.: *See—*
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Halm, Richard. Magnetic igniter. 3,696,271, 10-3-72, Cl. 317-81.000.

Halma, Laszlo: *See—*
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Halmai, Attila; and Halmai, Geza, to Nikex Nehezipari Kulkereskedelmi Vallalat. Traction unit for electric model railways. 3,646,892, 3-7-72, Cl. 104-148.

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Halocarbon Products Corporation: *See—*
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Halonen, Eero. Reflector for electric lamps. 3,657,530, 4-18-72, Cl. 240-104.

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Halopoff, William E.; and Wilson, Robert M., said Wilson assor. to said Hallopoff, William E. Method of and means for processing mail. 3,637,076, 1-25-72, Cl. 209-124.

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Halpern, Alfred, to Synergistics, Inc. Polyvinylpyrrolidone-iodine compounds. 3,671,545, 6-20-72, Cl. 260-326.5fl.

Halpern, Alfred, to Synergistics, Inc. Solid iodophor cleansing compositions. 3,687,855, 8-29-72, Cl. 252-106.000.

Halpern, Arthur, to M. I. Sales Co., Inc. Pin wheel toy. 3,675,364, 7-11-72, Cl. 46-58.000.

Halpern, Benjamin D., to Borden, Inc. Adhesive for living tissue. 3,667,472, 6-6-72, Cl. 128-334.00r.

Halpern, Berthold, to Syntex Corporation. Tetrahydrobenzimidazoles. 3,637,730, 1-25-72, Cl. 260-309.

Halpern, Samuel Walter, to Bell Telephone Laboratories, Incorporated. Three-channel FM stereo transmission. 3,679,832, 7-25-72, Cl. 179-15.0bt.

Halpern, William. Adjustable chamfering tool. 3,635,573, 1-18-72, Cl. 408-186.

Halsall, Vincent Michael; and Mrotek, Edward Norman, to Globe-Union Inc. Method of making a dry charged battery. 3,652,341, 3-28-72, Cl. 136-176.

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Halstead, Robert E.; and Halstead, Harold A. Partition for automobiles. 3,666,313, 5-30-72, Cl. 296-24.00r.

Halstead, William M. Electrical component desoldering and extracting tool. 3,632,036, 1-4-72, Cl. 228-54.

Halstead, William M. Tip for opening eyelet holes in printed circuit boards. 3,632,972, 1-4-72, Cl. 219-229.

Halstead, William M. Handling and heat dissipating device for electrical components. 3,640,519, 2-8-72, Cl. 209-254.

Halstead, William M. Method and device for straightening and aligning leads of a module insertable in a circuit board. 3,688,393, 9-5-72, Cl. 29-626.000.

Halstead, William Meredith. Soldering and de-soldering tip for connector pins of electrical components. 3,649,809, 3-14-72, Cl. 219-228.

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Halsted, Abel S.; and Hallock, David D., to Hughes Aircraft Company. Anode design for gas discharge lasers. 3,670,261, 6-13-72, Cl. 331-94.500.

Halt, Ira E.: *See—*
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Halter, Dale F. Bow string drawing and release device. 3,656,467, 4-18-72, Cl. 124-35.

Halter, Paul. Squirting gun and dosing device therefor. 3,682,175, 8-8-72, Cl. 128-223.000.

Halton, Murray. Safety conveyor. 3,680,685, 8-1-72, Cl. 198-232.

Haluska, Loren A., to Dow Corning Corporation. Method of making rigid polyurethane foams. 3,663,468, 5-16-72, Cl. 260-2.5am.

Halverson, Frederick: *See—*

Stamm, Robert Franz; Brinen, Jacob Solomon; Tennant, Evalyn Hosterman; and Halverson, Frederick, 3,635,544.
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Halvorsen, Jacob Schoning, to Rapp Fabrikker A/S. Method and apparatus for hauling underwater ropes and the like. 3,687,418, 8-29-72, Cl. 254-175.700.
Halvorson, David O.; and Vines, Sterling N., to Du Pont de Nemours, E. I., and Company. Anti-foulant in acrylonitrile manufacture. 3,691,226, 9-12-72, Cl. 260-465.900.
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Ham, Rowland Herbert. Load carrying vehicles. 3,643,907, 2-22-72, Cl. 248-439.
Hamabe, Takeshi; and Suzuki, Takashi, to Matsushita Electric Industrial Co., Ltd. Continuous anodic oxidation method for aluminum and alloys thereof. 3,692,640, 9-19-72, Cl. 204-28.000.
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Hamada, Motoharu; and Nakagawa, Hiroshi, to Kawasaki Steel Corporation. Method of coating steel sheet surfaces. 3,691,055, 9-12-72, Cl. 204-385.000.
Hamada, Takaki; Nakashio, Seizo; Maruta, Isao; Hayatsu, Kazuo; Seto, Tetsuki; and Kono, Yoichi, to Sumitomo Chemical Company, Limited. Modified polyphenylene oxide and method for production thereof. 3,700,630, 10-24-72, Cl. 260-17.250.
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Hamada, Yoshio; and Yoshino, Motohisa, to Takeda Chemical Industries, Ltd. Nutrient ration for increasing growth of livestock and poultry. 3,686,392, 8-22-72, Cl. 424-16.000.
Hamaguchi, Hachiro; Sakashita, Misao; and Koyama, Mamoru, to Tatsuta Electric Wire & Cable Co., Ltd. Soldering filler metal. 3,644,115, 2-22-72, Cl. 75-134.
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Hamamoto, Masao; Kamo, Seiichi; and Nakayama, Kiyoshi, to Mitsubishi Chemical Industries Limited. Process for producing slow-acting potassium phosphate fertilizers. 3,698,885, 10-17-72, Cl. 71-1.000.
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Hamann, Omer F., to Stromberg Datagraphix, Inc. Line scanning cathode ray tube having slotted storage element. 3,662,204, 5-9-72, Cl. 313-68.00d.
Hamann, Omer F., to Stromberg Datagraphix, Inc. Optical system for superimposing images. 3,673,933, 7-4-72, Cl. 95-1.100.
Hamano, Goro, to Matsushita Electric Industrial Co., Ltd. Entry mark system for entry and display of numbers. 3,657,529, 4-18-72, Cl. 235-159.
Hamano, Goro, to Matsushita Electric Industrial Co., Ltd. Right shifting system with data stored in polish stack form. 3,674,997, 7-4-72, Cl. 235-159.000.
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Hambling, James Keith; and Woodhead, David Allison, to British Petroleum Company, Limited, The. Crystalline terpolymers of 4-methylpentene, 3-methylpentene and an alpha olefin. 3,635,921, 1-18-72, Cl. 260-80.78.
Hamblyn, Stephen Mark Lesley; Money, Anthony Patrick; Mackinnon, Ian Malcolm; and Trotter, John Edmund, to United States Borax & Chemical Corporation. Separable plasma torch apparatus. 3,706,652, 12-19-72, Cl. 204-312.000.
Hambrick, John Earl. Stand for Christmas tree. 3,697,026, 10-10-72, Cl. 248-46.000.
Hamburg, Douglas R., to Ford Motor Company. Signal producing apparatus adaptable for use with variable reluctance motors. 3,673,476, 6-27-72, Cl. 318-138.000.
Hamburg, Jacob J. Tube coupling. 3,633,944, 1-11-72, Cl. 285-81.
Hamburg, Karl-Heinz, to Peters, Claudius, Aktiengesellschaft. Two-stage material cooler. 3,705,620, 12-12-72, Cl. 165-104.000.
Hamburger, Brigitte: *See—*
Kuhle, Engelbert; Klauke, Erich; Hamburger, Brigitte; and Steinfatt, Fritz, 3,636,076.
Hamburger Flugzeugbau GmbH: *See—*
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Hahn, Hans-Jurgen Wilhelm, 3,647,515.
Konecny, Jan; Haas, Jan T.; and Groenewald, Hans E., 3,674,224.
Studer, Hans-Luzius; Petri, Eckart; Wurmstedt, Karl; and Haas, Jan Tomas, 3,704,828.
Hamburger, Peter R. Lamp structures. 3,689,763, 9-5-72, Cl. 240-88.000.

Hamby, Clayton B.; Barrett, Charles W.; and Derfer, John M., to SCM Corporation. Process for removing sulfur from crude sulfate turpentine or distillate fraction thereof. 3,660,512, 5-2-72, Cl. 260-675.500.

Hamby, Robert L., 50% to Wolfe, Richard A. Adjustable vehicle mirror. 3,644,021, 2-22-72, Cl. 350-304.

Hamby, Tyler W., Jr.; and Strickland, William T., Jr., to Shell Oil Company. Epoxy resin sand consolidation rejuvenation. 3,646,999, 3-7-72, Cl. 166-281.

Hamco Machines & Electronics Corported: *See—*
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Hameister, Harold L.; and Baszczuk, Andrew R., to Remington Arms Company, Inc. Profile shaping machine for firearm recoil pads and butt plates. 3,674,451, 7-4-72, Cl. 51-127.000.

Hameister, Harold L.; and Reitter, Erwin, Jr., to Remington Arms Company, Inc. Compression molding of wooden articles. 3,681,181, 8-1-72, Cl. 161-41.000.

Hamel, David O., to ESB Incorporated. Dry cell battery. 3,655,456, 4-11-72, Cl. 136-181.

Hamel, Edward E.: *See—*
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Hamel GmbH Zwirnerei- und Spinnereimaschinen: *See—*
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Hamel G.m.b.H., Zwirnmaschinen: *See—*
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Hamel, Jon J.: *See—*
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Hamer, Allan Norman: *See—*
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Hamer, Edward A. G.: *See—*
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Hamer, Emile Paul Eliza. Pot, pan or similar vessel for domestic use with a handgrip, and a method for making such a vessel. 3,661,296, 5-9-72, Cl. 220-94.

Hamer, Glen P.: *See—*
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Hamer, William J.; and Goshen, Randal W. Aircraft electronic apparatus with supporting rack. 3,704,395, 11-28-72, Cl. 317-120.000.

Hamerl, Arthur John. Coupling assembly. 3,679,243, 7-25-72, Cl. 287-21.000.

Hamermesh, Bernard: *See—*
Hansen, David O.; Altshuler, Saul; Bernstein, William; and Hamermesh, Bernard, 3,679,897.

Hamermesh, Charles L.: *See—*
Gunderloy, Frank C., Jr.; Hamermesh, Charles L.; and Wagner, Ross I., 3,690,971.

Hamernik, Edward L.; and Kawamoto, Frank T., to Lucas, Joseph, (Industries) Limited. Torch apparatus. 3,643,870, 2-22-72, Cl. 239-419.3.

Hamernik, Edward L.; and Kawamoto, Frank T., to Tescom Corporation. Torch apparatus. 3,643,871, 2-22-72, Cl. 239-419.3.

Hamerski, Frank D., to Smith, A. O., Corporation. Method and apparatus for storage atmosphere control. 3,646,874, 3-7-72, Cl. 98-1.5.

Hamersma, Joseph Warren, to Atlantic Richfield Company. Vinyl fluoride from 1-fluoro-2-chloroethane by pyrolysis in the presence of ethylene. 3,642,917, 2-15-72, Cl. 260-653.5.

Hamill Arthur L., to Techo-Components Corporation. Potentiometers. 3,683,308, 8-8-72, Cl. 338-162.000.

Hamill, Ralph: *See—*
Schlemmer, Alfred H.; and Pearson, Melvin A., 3,633,333.

Hamill, Robert L.; and Hoehn, Marvin M., to Lilly, Eli, and Company. Antibiotics A204I and A204II and method for production thereof. 3,705,238, 12-5-72, Cl. 424-121.000.

Hamill, Thomas M. Wet milling extraction process and apparatus therefor. 3,695,931, 10-3-72, Cl. 127-4.000.

Hamilton, Alexander, to Ciba-Geigy AG. Unsymmetrical disazo pigments derived from dichlorobenzidine and acetylarylamides. 3,655,641, 4-11-72, Cl. 260-176.

Hamilton, Andrew J., to Amchem Products, Inc. Compositions and methods for treating metal surfaces. 3,635,826, 1-18-72, Cl. 252-79.4.

Hamilton, Billy Harold, to Bell Telephone Laboratories, Incorporated. Undersea wye connection for a submarine cable system. 3,644,787, 2-22-72, Cl. 317-16.

Hamilton, Billy Harold, to Bell Telephone Laboratories, Incorporated. Technique for synchronous parallel operation of static inverters. 3,675,037, 7-4-72, Cl. 307-51.000.

Hamilton, Brett B.: *See—*
Goodkind, Karen B.; Hamilton, Brett B.; Larson, Ake L.; and Whittington, Jimmie L., 3,667,136.

Hamilton, Charles Eugene: *See—*
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Hamilton, Clarence L.; and Hutson, Jack E., to Ball Corporation. Rotary cutting apparatus. 3,648,556, 3-14-72, Cl. 83-262.

Hamilton, Colin B.; and Oles, Edward J., Jr., to United States Steel Corporation. Method for preventing high-temperature blistering of copper coatings electro-deposited on copper substrates. 3,671,407, 6-20-72, Cl. 204-32.00r.

Hamilton Company: *See—*
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Ried, John D., 3,672,226.

Hamilton Cosco, Inc.: *See—*
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Hamilton, David C., to Ramsey Controls, Inc. Buffer amplifier and voltage regulating circuit. 3,679,961, 7-25-72, Cl. 323-8.000.

Hamilton, David G., Jr. Angularly adjustable square holder. 3,670,418, 6-20-72, Cl. 33-75.00r.

Hamilton, David H. Multi-purpose household garden and yard hand tool. 3,688,483, 9-5-72, Cl. 56-400.110.

Hamilton Digital Controls, Inc.: *See—*
Zacaroli, Edward C., 3,700,828.

Hamilton, Douglas D.; and Boivin, Joseph J. R., 1/3 each to Canadian International Paper Company, Quebec North Shore Paper Company and Abitibi St. Anne Paper Ltd. Mobile tree processing machine. 3,642,041, 2-15-72, Cl. 144-309.

Hamilton, Douglas D., 1/3 to Canadian International Paper Company, Canada Quebec North Shore Paper Company and Ste. Anne Paper Company Limited. Feller buncher including double bunk trailer. 3,658,104, 4-25-72, Cl. 144-309.0ac.

Hamilton, Douglas L. P. Automobile bumper. 3,677,595, 7-18-72, Cl. 293-73.000.

Hamilton, Ferris F. Method and apparatus for airborne seismic exploration. 3,685,608, 8-22-72, Cl. 181-.5vm.

Hamilton, Floyd C., Jr.: *See—*
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Hamilton, Harry A.: *See—*
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Hamilton, J. Brook: *See—*
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Hamilton, James P.: *See—*
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Hamilton, James P., to FMC Corporation. Thermally stable air filter gels. 3,672,924, 6-27-72, Cl. 106-287.000.

Hamilton, Joel A.: *See—*
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Hamilton, John B.: *See—*
Hack, Albert G. W.; and Hamilton, John B., 3,701,651.

Hamilton, John E.: *See—*
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Hamilton, John F.; and Pederson, Donald J., to Hercules Incorporated. Maintenance of slurry explosive pumping assembly for successive loadings. 3,640,585, 2-8-72, Cl. 302-17.

Hamilton Kent Manufacturing Co.: *See—*
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Hamilton, Lewis R., to Procter & Gamble Company, The. Optical brightener compounds and detergent and bleach compositions containing same. 3,646,015, 2-29-72, Cl. 260-240.

Hamilton, Martin W.: *See—*
Jones, William H.; and Hamilton, Martin W., 3,655,002.

Hamilton, Martin W.; and Jones, William H., to Eaton Corporation. Manual digital scale. 3,693,083, 9-19-72, Cl. 324-98.000.

Hamilton of Indiana, Inc.: *See—*
Tate, Gary L.; Summers, John J.; and Kramer, Joseph O., 3,634,057.

Hamilton, Otis L., 1/2 to Doane, Frank. Skid inverting device. 3,670,903, 6-20-72, Cl. 214-1.00q.

Hamilton, Robert W., to Searle, G. D., & Co. Dialkylaminoalkyl amides and esters of 6-chloro-1,2, 3,4-tetrahydro-1-naphthaleneacetic acid and [illegible]analogs. 3,668,251, 6-6-72, Cl. 260-558.

Hamilton, Stephen B.; Beers, Melvin D.; Berger, Abe; and Selin, Terry G., to General Electric Company. Curable compositions. 3,661,817, 5-9-72, Cl. 260-18.

Hamilton, Stephen B.; Beers, Melvin D.; and Berger, Abe, to Selin, Terry G. Curable compositions. 3,700,714, 10-24-72, Cl. 260-448.20b.

Hamilton, Stephen B., Jr.: *See—*
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Hamilton, Stoddard C., III, to General Motors Corporation. Lock-up device for coupling or converter. 3,684,064, 8-15-72, Cl. 192-3.310.

Hamilton, Stoddard C., III. Lock-up device for fluid unit. 3,696,896, 10-10-72, Cl. 192-3.280.

Hamilton, Thomas N.: *See—*
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Hamilton, Thomas R., to Caterpillar Tractor Company. Bowl lift jack mounting for earthmoving scraper. 3,657,830, 4-25-72, Cl. 37-129.000.

Hamilton Tool Company, The: *See—*
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Hamilton Watch Company: *See—*
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Martin, Vincent W.; and Steiner, Bruce G., 3,657,571.
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Hamilton, William. Container sealing roof structure. 3,651,648, 3-28-72, Cl. 61-.5.
Hamilton, William B.; and Lesher, Kenneth W., to Stanadyne, Inc. Tappet with means for relieving entrained air. 3,636,932, 1-25-72, Cl. 123-90.55.
Hamilton, William D.: *See—*
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Hamilton, William H.; and Winsor, Jack O., to Lawrence Manufacturing Company. Roll attitude correcting means for tunneling machines. 3,703,314, 11-21-72, Cl. 299-31.000.
Hamilton, William R., Jr., to Portec, Inc. Insulated rail joints. 3,698,634, 10-17-72, Cl. 238-152.000.
Hamlen, Robert P.; and Siwek, Erwin G., to United States of America, Navy, mesne. Disposable anode package. 3,645,794, 2-29-72, Cl. 136-86.
Hamley, David H.; and Hylen, Lyle L., to Westinghouse Air Brake Company. Power operated railway switch machine control circuit. 3,696,244, 10-3-72, Cl. 246-242.000.
Hamlin, David R.; and Torpey, William A., to Eastman Kodak Company. Web turning and guiding apparatus. 3,679,116, 7-25-72, Cl. 226-197.000.
Hamlin, Percy J.: *See—*
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Hamling, Bernard H., to Union Carbide Corporation. Metal oxide fabrics. 3,663,182, 5-16-72, Cl. 23-355.
Hamm, Jeffrey E.; and Watkins, Harley E. Method of and device for smoke detection and circuits therefor. 3,657,737, 4-18-72, Cl. 340-237.
Hamm, John R., to Borg-Warner Corporation. Valve. 3,654,950, 4-11-72, Cl. 137-219.
Hamm, Philip C., to Monsanto Company. Chemosterilant compositions for flies and method of use. 3,671,635, 6-20-72, Cl. 424-319.000.
Hamm, Philip C.; and Speziale, Angelo John, to Monsanto Company. Herbicidal composition and method. 3,690,864, 9-12-72, Cl. 71-118.000.
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Hamma, John C., to Interscience Corporation. Infusion monitoring device. 3,656,138, 4-11-72, Cl. 340-266.
Hammack, Calvin M. Method and apparatus for geometrical determination. 3,691,560, 9-12-72, Cl. 343-113.00r.
Hammack, Calvin Miles. Polystation doppler system tracking of vehicles, measuring displacement and rate thereof and similar applications. 3,706,096, 12-12-72, Cl. 343-9.000.
Hamman, Denver C., to Illinois Tool Works Inc. Molding clip. 3,703,747, 11-28-72, Cl. 24-73.0hs.
Hammang, John T.: *See—*
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Hammann, William C.; and Hobbs, Charles F., to Monsanto Company. Process for the preparation of di-tertiary-aromatic hydrocarbons. 3,657,370, 4-18-72, Cl. 260-671.
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Hammel, Joseph J.; and Mackenzie, John D., to PPG Industries, Inc. Method of forming micro-porous glass fibers. 3,650,721, 3-21-72, Cl. 65-3.
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Hammelehle, Wilfried, to Telefunken Patentverwertungsgesellschaft m.b.H. Pulse generator. 3,634,781, 1-11-72, Cl. 331-108.
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Hammell, Kemper Martel, to AMP Incorporated. Alpha-numeric display. 3,675,242, 7-4-72, Cl. 340-381.000.
Hammell, Kemper Martel, to AMP Incorporated. Electrical connector. 3,697,928, 10-10-72, Cl. 339-45.000.
Hammelmann, Paul. Arrangement for treating upright surfaces. 3,705,565, 12-12-72, Cl. 114-222.000.
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Hammer, Clarence Frederick; and Sashihara, Thomas Fujio, to Du Pont de Nemours, E. I., and Company. Ethylene/sulfur dioxide bipolymers and method of making. 3,657,202, 4-18-72, Cl. 260-79.3.
Hammer, Clarence Frederick; and Hickman, James Joseph, to Du Pont de Nemours, E. I., and Company. Blends of polyvinyl chloride resins and ethylene-SO_2 terpolymers and films formed therefrom. 3,657,394, 4-18-72, Cl. 260-897.
Hammer, Clarence Frederick, to Du Pont de Nemours, E. I., and Company. Polymers of ethylene, sulfur dioxide and ethylenic monomers. 3,684,778, 8-15-72, Cl. 260-79.30a.
Hammer, Dale F.; and Bischoff, Leo E., to General Motors Corporation. Windshield wiper mechanism. 3,691,443, 9-12-72, Cl. 318-443.000.
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Hammer, Gary G.; and Hennes, John H., to Dow Chemical Company, The. Pyridyl acrylates and methacrylates and dyeable acrylonitrile copolymers prepared therefrom. 3,645,988, 2-29-72, Cl. 260-80.72.
Hammer, Herman J.; Heald, Sherman T.; and Royce Frank A., to Republic Steel Corporation. Apparatus for high speed welding of stainless steel tube with high velocity gas. 3,689,725, 9-5-72, Cl. 219-8.500.
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Hammer, Kurt F., to Purolator Products, Inc. Pressure indicator and surge control device. 3,646,906, 3-7-72, Cl. 116-70.
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Hammo, Fred H., Jr., to Kendall Company, The. Compliance testing apparatus. 3,681,979, 8-8-72, Cl. 73-81.000.
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Hammon, George L., to Chemetron Corporation. Gas pressure regulator. 3,665,956, 5-30-72, Cl. 137-505.110.
Hammon, George L. Cylinder support. 3,689,016, 9-5-72, Cl. 248-309.000.
Hammond, Arthur W.; and Miller, Marie E. Combination spoon and toothpick. 3,664,020, 5-23-72, Cl. 30-142.000.
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Hammond, Donald L., to Hewlett-Packard Company. Acousto-optical filter having scanned acoustic frequency compensated by controlled distributed birefringence. 3,701,583, 10-31-72, Cl. 350-149.000.
Hammond, Earl J., to Houdaille Industries, Inc. Means for operating releasable tool chucks. 3,672,691, 6-27-72, Cl. 279-1.0ts.
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Hammond, Jack; and Boyd, Charles L., to Halliburton Company. System for summation totalizing for net oil analyzers and flow analyzers. 3,660,644, 5-2-72, Cl. 235-92.
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Hammond, James Woodrow, to AMP Incorporated. Method of making electrical leads. 3,686,752, 8-29-72, Cl. 29-628.000.
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Colwell, Lester V., 3,684,673.
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Hammond, Michael J.; and Herner, Raymond F., to Sylvania Electric Products, Inc. Cathode luminescent phosphor reclamation. 3,649,216, 3-14-72, Cl. 23-299.
Hammond, Michael J.; and Haynes, James W., to Sylvania Electric Products, Inc. Method of stabilizing rare earth oxide phosphor in dichromate sensitized coating slurry. 3,676,177, 7-11-72, Cl. 4-24-70.
Hammond, Michael J.; and Herner, Raymond F., to Sylvania Electric Products, Inc. Method of treating luminescent rare earth oxide materials. 3,684,546, 8-15-72, Cl. 177-33.50c.
Hammond, Peter George Henry, to Bunker-Ramo Corporation, The. Potentiometer. 3,697,922, 10-10-72, Cl. 338-163.000.
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Hammond, Philip G., to Kimberly-Clark Corporation. Container loader for compressible product. 3,645,060, 2-29-72, Cl. 53-24.
Hammond, Roland P.; and Van Winkle, Roscoe. Critical velocity, uninterruptedly flowing brine in multistage distillation system. 3,632,481, 1-4-72, Cl. 203-11.
Hammond, Ronald W., to Smith, A. O., Corporation. Flow control baffle for a bin unloader. 3,643,820, 2-22-72, Cl. 214-17.
Hammond, Seymour B.; and Larsen, Kenneth M. Balloting system and apparatus therefor. 3,653,587, 4-4-72, Cl. 235-50.
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Hamner, Glen P., to Esso Research and Engineering Company. Hydroforming naphthas. 3,640,818, 2-8-72, Cl. 208-65.
Hamner, Glen P.; and Mason, Ralph B., to Esso Research and Engineering Company. Production of single ring aromatic hydrocarbons from gas oils containing condensed ring aromatics and integrating this with the visbreaking of residua. 3,691,058, 9-12-72, Cl. 08-73.000.
Hamontre, Hugh C.; and Kessler, Hugh M. D., to United States of America, Navy. Magnesium bimetal and system for flame spraying metals on magnesium substrate. 3,631,835, 1-4-72, Cl. 118-47.
Hamouz, George J.; Dalenberg, W. Robert; and Zurek, James W., to International Harvester Company. Mower support and lift linkage. 3,672,137, 6-27-72, Cl. 56-15.800.
Hampe, Walter R.; Simon, Albert B.; Hampton, William H.; and Decker, William E., 1/2% each to Westinghouse Electric Corporation and Hoffman Diamond Products, Inc. Rotary diamond core bit. 3,692,127, 9-19-72, Cl. 175-330.000.
Hampel, Daniel; and Lerch, Joseph Bryan, to United States of America, Air Force, mesne. Sample and hold circuit. 3,671,783, 6-20-72, Cl. 307-238.000.
Hampel, Daniel, to RCA Corporation. Multi-function logic gate circuits. 3,678,292, 7-18-72, Cl. 307-207.000.
Hampel, Gerald; and Gruss, Hansgeorg, to Optipatent AG. Device for filling casting moulds with hardenable casting resin. 3,640,663, 2-8-72, Cl. 425-233.
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Hampel, Viktor E.; Lee, Joseph D., III; and Walter, Carl E., to United States of America, Atomic Energy Commission. Space reactor ground safety and control system. 3,700,554, 10-24-72, Cl. 176-86.00m.
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Hampp, Wilhelm; and Sandstrom, Stig, to SKF Kugellagerfabriken GmbH. Roller bearing. 3,689,127, 9-5-72, Cl. 308-214.000.

Hampson, Peter Samuel: *See*—
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Hampton, Robert W., to Eastman Kodak Company. Reflex camera apparatus. 3,654,844, 4-11-72, Cl. 95-42.
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Hamrick, James C., to Jet Line Products, Inc. Suction hose for vacuum cleaning system for use with hose plug-in and hose retracting outlets. 3,682,500, 8-8-72, Cl. 285-7.000.
Hamrick, Joseph T. Antipersonnel mine distruct system. 3,685,453, 8-22-72, Cl. 102-90.000.
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Hamstra, David C., to General Electric Company. Apparatus for protecting electrical devices. 3,693,047, 9-19-72, Cl. 317-13.00b.
Hamuro, Keizo, to Sumitomo Chemical Company, Ltd. Insecticidal composition comprising a synergistic mixture of 5-benzyl-3-furylmethyl D trans-chrysanthemate and N(3,4,5,6-tetrahydrophthalimido)-methyl D-trans-chrysanthemate. 3,702,891, 11-14-72, Cl. 424-24.000.
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Hanada, Hiroshi; and Kitajima, Nobuo, to Canon Camera Kabushiki Kaisha. Method of the preparation of CdS or Cd Se powder for electrophotography and method of making an electrophotgraphic photosensitive plate by using the powder. 3,647,430, 3-7-72, Cl. 96-15.
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Hanada, Keiichi; Saito, Kimihiko; and Iwase, Akikazu. Fluidic counter device. 3,703,633, 11-21-72, Cl. 235-201.0pf.
Hanada, Toshihide, to Pioneer Electronic Corporation. Hall motor including means for selectively varying the effective number of turns of the exciting windings. 3,651,368, 3-21-72, Cl. 318-254.
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Hanaoka, Masanori, to Toyota Jidosha Kogyo Kabushiki Kaisha. Liquid level controlling apparatus. 3,702,122, 11-7-72, Cl. 137-81.500.
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Hanas, Walter E., to Honeywell Inc. Apparatus and method for fine blanking of parts. 3,635,067, 1-18-72, Cl. 72-329.
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Hance, Richard James, to Leeds & Northrup Company. Immersion temperature responsive device. 3,664,882, 5-23-72, Cl. 136-234.
Hanchen, Siegfried. Clamping device for an axially moveable plunger shaft. 3,643,765, 2-22-72, Cl. 188-170.
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Handler, Elliot; Beasley, Noel F.; Garcia, Armando J.; and May, Richard L., to Mattel, Inc. Doll Posing stand. 3,699,712, 10-24-72, Cl. 46-116.000.
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Handy, Robert M.; Angello, Stephen J.; Malmberg, Paul R.; and O'Keeffe, Terence W., to Westinghouse Electric Corporation. Electron beam fabrication system and process for use thereof. 3,679,497, 7-25-72, Cl. 156-2.000.
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Haney, Ralph D.; and Aneshansley, Nicholas E., to National Cash Register Company, The. Serial read-out memory system. 3,691,538, 9-12-72, Cl. 340-173.0sp.
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Hanlon, Thomas F. Black-and-white image control by ultrasonic modulation of nematic liquid crystals. 3,700,805, 10-24-72, Cl. 178-7.30d.
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Hanna, Daniel C. Wraparound brushing devices. 3,704,476, 12-5-72, Cl. 15-21.00d.
Hanna, Delbert L., to Velsicol Chemical Corporation. Preparation of esters of tetrachloroterephthalic acid. 3,689,526, 9-5-72, Cl. 260-475.00r.
Hanna, Delbert L., to Velsicol Chemical Corporation. Process for esterification of tetachloroterephthalic acid. 3,689,527, 9-5-72, Cl. 260-475.00r.
Hanna, Drexel W., Jr., to Totuus Communications, Inc. Communication system having modulator for generating orthogonal continuous phase synchronous binary FSK. 3,663,754, 5-16-72, Cl. 178-66.
Hanna, Drexel W., Jr., to Totuus Communications Inc. Pserodo-random code recognition receiver. 3,694,757, 9-26-72, Cl. 325-466.000.
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Hanna, John E., to National Semiconductor Corporation. Low noise integrated circuit zener voltage reference device including a multiple collector lateral transistor. 3,633,052, 1-4-72, Cl. 307-299.
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Hansen, Carl Arthur, to Ray Proof Corporation. Automatic door operating mechanism for radiation proof enclosures. 3,681,873, 8-8-72, Cl. 49-139.000.
Hansen, Charles M.; Muir, Joseph A.; and Leyh, Jeffrey R., to PPG Industries, Inc. Phosphoric acid pretreatment of electrodepositable welded metal seams. 3,637,470, 1-25-72, Cl. 204-29.
Hansen, Charles N.; Young, Morris D.; and Granger, James E., to Wasatch Chemical Company. Stripping of condensation polymers with an alkoxide. 3,679,593, 7-25-72, Cl. 252-170.000.
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Hansen, Eric Lowell; McNoldy, Larry Benjamin; and Pohl, Karl-Heinz, to Bell Telephone Laboratories, Incorporated. Receptacle for snap-in mounting of connectors. 3,705,377, 12-5-72, Cl. 339-121.000.
Hansen, Erling, to Chevron Research Company. Grease compositions containing magnesium salts of unsaturated fatty acids as rust inhibitors. 3,660,288, 5-2-72, Cl. 252-40.7.
Hansen, Erwin, to International Boiler Works Co., The. Combined steam and high temperature water generating system. 3,704,693, 12-5-72, Cl. 122-406.00r.
Hansen, Floyd R., to Ferro Corporation. Extreme pressure lubricant additives. 3,702,822, 11-14-72, Cl. 252-37.000.
Hansen, Gerhard. Apparatus for the sterilization of a machine. 3,650,678, 3-21-72, Cl. 21-91.
Hansen, Gerhard. Mandrel for a device for the production and filling of a container of thermoplastic synthetic material. 3,664,793, 5-23-72, Cl. 18-5.
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Hansen, Gerhard. Apparatus for filling a chamber. 3,670,787, 6-20-72, Cl. 141-250.000.
Hansen, Gerhard. Apparatus for producing, filling and closing plastic containers. 3,674,405, 7-4-72, Cl. 425-308.000.
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Hansen, Gunnar W., to Ford Motor Company. Air cleaner and fuel vapor storage assembly remotely associated with an engine. 3,646,731, 3-7-72, Cl. 55-316.
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Hansen, Harvey Gordon, to Sylvania Electric Products, Inc. Releasable closure mechanism. 3,669,304, 6-13-72, Cl. 220-55.00k.
Hansen, Henry H. Dispenser. 3,693,841, 9-26-72, Cl. 222-195.000.
Hansen, Howard C., to Clark Equipment Company. Front and side loading attachment for lifting trucks. 3,672,526, 6-27-72, Cl. 214-730.000.
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Hansen, Jay M.; Holscher, Donald J.; and Prince, Paul R., to Hughes Aircraft Company. SEC camera tube and image intensifier protection against excessive light damage. 3,706,903, 12-19-72, Cl. 315-10.000.
Hansen, John A.; and Doerrfeld, Robert E., to Hansen, A. L., Mfg. Co. Door holder. 3,675,959, 7-11-72, Cl. 292-70.000.
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Hansen, Kai H., to General Motors Corporation. Fuel tank vent control. 3,703,165, 11-21-72, Cl. 123-136.000.
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Hansen, Knut Bonde; and Petersson, John Soren, to Aktiebolaget Astra. Method and apparatus for examining liquid filed containers. 3,659,940, 5-2-72, Cl. 356-36.
Hansen, Leo J., to Armour and Company. Measuring the tenderness of meat. 3,636,757, 1-25-72, Cl. 73-81.
Hansen, Leo J., to Armour and Company. Measuring the tenderness of meat. 3,688,566, 9-5-72, Cl. 73-78.000.
Hansen, Lloyd Frank, to American Cyanamid Company. Aerosol powder dosage dispensing device. 3,653,380, 4-4-72, Cl. 128-266.
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Hansen, Quinten A. Clutch-brake mechanism and control system therefor. 3,680,669, 8-1-72, Cl. 192-18.00r.
Hansen, Quinten A. Clutch-brake mechanism and mounting and control system therefor. 3,680,670, 8-1-72, Cl. 192-18.00r.
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Hansen, Robert A.; and Jerchower, Lewis A., to Pioneer Industries, division of SOS Consolidated, Inc. Automatic closure seal. 3,704,547, 12-5-72, Cl. 49-308.000.
Hansen, Robert B.; and Slavik, William H., to Motorola, Inc. Degaussing circuit with bucking current source for reducing current in degaussing coil to zero. 3,657,729, 4-18-72, Cl. 315-8.
Hansen, Robert B.; Ivas, Thomas W.; and Slavik, William H., to Motorola, Inc. Automatic hue control for a television receiver. 3,668,306, 6-6-72, Cl. 178-5.4he.
Hansen, Robert N.; Hempel, George T.; and Noesges, Raymond. Interior scaffolding arrangement. 3,679,026, 7-25-72, Cl. 182-132.000.
Hansen, Stuart C., to Varian Associates. Microwave cavity resonator with printed circuit interior walls and modulation coils. 3,701,959, 10-31-72, Cl. 333-83.00r.
Hansen, Svend Georg. Display stands. 3,645,404, 2-29-72, Cl. 211-168.
Hansen, Theodore E.; and Wilson, Floyd A., to Anaconda Wire and Cable Company. Flexible power cable. 3,699,238, 10-17-72, Cl. 174-115.000.
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Hansen, Wolfgang, to Motoren- und Turbinen-Union Munchen GmbH. Method for connecting cooled or uncooled rotor blades to the blade rim of an associated disc. 3,678,555, 7-25-72, Cl. 29-156.80r.
Hansen, Wray Carl. Lock for knobs and the like. 3,635,512, 1-18-72, Cl. 292-353.
Hansford, Rowland C., to Union Oil Company of California. Platinum group metal on silca alumina hydrogenation catalyst and process. 3,637,484, 1-25-72, Cl. 208-143.
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Hansford, Rowland C., to Union Oil Company of California. Hydrogenation process and catalyst. 3,703,461, 11-21-72, Cl. 208-143.000.
Hansley, Virgil L.; Schott, Stuart; and Moormeier, Louis F., to National Distillers and Chemical Corporation. Method of preparing zinc hydrosulfite. 3,687,619, 8-29-72, Cl. 423-109.0on.
Hanslik, Wilhelm, to Dorplastex A.G. Multiple screw extruder. 3,640,669, 2-8-72, Cl. 425-376.
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Hanson, Alden W., to University Patents, Inc. Polyisobutylene paraffin wax and oil blends. 3,635,849, 1-18-72, Cl. 260-2.5.
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Hanson, Charles G.; and Harland, Glen E., Jr., to General Motors Corporation. Temperature stabilization of transistor voltage regulators. 3,643,153, 2-15-72, Cl. 322-33.
Hanson, Cleo E.: *See—*
Tuschhoff, John V.; and Hanson, Cleo E., 3,705,891.
Hanson, Derald F.: *See—*
Sherman, Randy J.; and Hanson, Derald F., 3,651,256.
Hanson, Donald M. Gun cleaning patch. 3,682,556, 8-8-72, Cl. 401-132.000.
Hanson, Donald O., to Phillips Petroleum Company. Isolation of N-paraffins from mixed branch and straight chain hydrocarbons. 3,645,889, 2-29-72, Cl. 208-308.
Hanson, Donald O., to Phillips Petroleum Company. Removal of oxygenated compounds from unsaturated hydrocarbons. 3,663,641, 5-16-72, Cl. 260-681.5.
Hanson, Donald O., to Phillips Petroleum Company. Process for separating halogenated hydrocarbons by extractive distillation. 3,689,374, 9-5-72, Cl. 203-64.000.
Hanson, Donald W.; and Mifflin, Ralph W., to United States of America, Air Force. Tacan ground station track and display system. 3,699,570, 10-17-72, Cl. 343-6.00r.
Hanson, Ellis P.; and Sausele, George J. H., to Compugraphic Corporation. Keyboard operated phototypesetting display machine. 3,688,672, 9-5-72, Cl. 95-4.500.
Hanson, Francis V.; and Snyder, Paul W., Jr., to Mobil Oil Corporation. Method of controlling interaction between pretreating and hydrocracking stages. 3,684,694, 8-15-72, Cl. 208-89.000.
Hanson, Harold Biddick: *See—*
Rathjen, Theodore Nicholas; and Hanson, Harold Biddick, 3,646,881.
Hanson, Harold E., to Lourie Visual Etudes, Inc. Device for practicing breath control. 3,695,608, 10-3-72, Cl. 272-57.00r.
Hanson, Harry I., to Meyer Products, Inc. Tripping mechanism for a plow blade. 3,650,054, 3-21-72, Cl. 37-42.
Hanson, Howard G. Haystack forming device. 3,698,767, 10-17-72, Cl. 298-27.000.
Hanson, James R.: *See—*
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Titus, Paul E.; and Hanson, James R., 3,688,909.
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Hanson, Laurence B.; and Arthur Wallace W., to Gardner-Denver Company. Collaring timing control system for rock drills. 3,666,025, 5-30-72, Cl. 173-112.000.
Hanson, Laurence B.; and Arthur, Wallace W., to Gardner-Denver Company. Control system for rock drills. 3,669,197, 6-13-72, Cl. 173-19.000.
Hanson, Laurence B.; and Arthur, Wallace W., to Gardner-Denver Company. Control system for drills. 3,670,826, 6-20-72, Cl. 173-4.000.
Hanson, Lawrence G., to Burroughs Corporation. High-speed parallel binary adder. 3,697,735, 10-10-72, Cl. 235-175.000.
Hanson, Marvin M.; and Baltar, Jose. Handset rest attachment device for wall telephones. 3,654,405, 4-4-72, Cl. 179-146.
Hanson, Merle E.: *See—*
Colgate, Stirling A.; Kempton, Marvin L.; Hanson, Merle E.; Munson, William O.; and Nicholson, Dallas E., 3,696,750.
Hanson, Newell B., to Hanson Silo Company. Silage distribution apparatus. 3,640,409, 2-8-72, Cl. 214-17.

Hanson, Perry W., to United States of America, National Aeronautics and Space Administration. Lift-balancing device. 3,695,101, 10-3-72, Cl. 73- 147.000.
Hanson, Raymond: *See—*
Barker, Joseph; and Hanson, Raymond, 3,680,527.
Robbins, John E.; Willbond, William F.; Tutt, Kingsley J.; Hall, Dennis S.; and Hanson, Raymond, 3,663,139.
Hanson, Raymond A. Grade trimming apparatus. 3,651,588, 3-28-72, Cl. 37-108.
Hanson, Richard E.: *See—*
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Hanson, Richard E.; and Lippitt, Raymond F., to Nelson, L. R., Mfg. Co., Inc. Pivot move agricultural irrigation system with improved water distribution and sprinkler head utilized therewith. 3,669,353, 6-13-72, Cl. 239-177.000.
Hanson, Richard J., to General Motors Corporation. Electrical connector assembly. 3,706,067, 12-12-72, Cl. 339-45.00m.
Hanson, Roger H. Food cooking apparatus. 3,653,337, 4-4-72, Cl. 425-394.
Hanson, Roy R. Powder metering device for loading ammunition. 3,670,928, 6-20-72, Cl. 222-288.000.
Hanson Silo Company: *See—*
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Hanson, Theodore L., to Vendo Company, The. Floating ingredient-tank sold-out system for beverage dispensing machines. 3,675,819, 7-11-72, Cl. 222-51.000.
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Hanson, Walter J.: *See—*
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Hanson, Walter J., to Pitney-Bowes, Inc. Locking device. 3,664,231, 5-23-72, Cl. 70-292.000.
Hanson-Graville, George. Apparatus for controlling liquid level in tanks and for actuating flushing cisterns. 3,631,885, 1-4-72, Cl. 137-403.
Hanssen, Ernstgeorg Albert, to Bahlsen, Werner. Method of producing pastry from doughs of low water content. 3,684,525, 8-15-72, Cl. 99-92.000.
Hansson, Bror: *See—*
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Hansson, Hans Olof, to Telefonaktiebolaget L M Ericsson. Electric conductor wire. 3,636,242, 1-18-72, Cl. 174-128.
Hansson, Jan Ingvar, to Tetra Pak International AB. Equipment designed to regulate the flow of, preferably, a sterile liquid and a dishwashing liquid or a sterilizing agent. 3,643,679, 2-22-72, Cl. 137-241.
Hansson, Malte. Propulsion and steering device for small boats. 3,646,903, 3-7-72, Cl. 115-12.
Hansson, Margaret S.; and Matejcic, Leonard S., to Gerico, Inc., mesne. Take apart multiple position chair. 3,650,563, 3-21-72, Cl. 297-441.
Hansson, Rune Einar: *See—*
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Hantusch, Gerald H.; Vincent, David A.; and Van Tongerloo, Eric H., to Microsystems International Limited. Heat dispersion from a semiconductor wafer by a multiplicity of unaligned minuscule heat conductive raised dots. 3,675,089, 7-4-72, Cl. 317-234.
Hantusch, Werner; and Strittmatter, Bernhard, to Fluggeratewerk Bodensee GmbH. Aircraft artificial horizon. 3,634,945, 1-18-72, Cl. 33-204.
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Hanyu, Susumu, to Janome Sewing Machine Co., Ltd. Zigzag cam drive in combination with a sewing machine. 3,641,957, 2-15-72, Cl. 112-158.
Hanyu, Susumu; and Kasuga, Noboru, to Janome Sewing Machine Co., Ltd. Feeding arrangement for zig-zag sewing machine. 3,643,612, 2-22-72, Cl. 112-158.
Hanyu, Susumu; and Amano, Takashi, to Janome Sewing Machine Co. Ltd. Rotary shuttle for sewing machines. 3,705,562, 12-12-72, Cl. 122-232.000.
Hanzawa, Hisoshi: *See—*
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Sakamoto, Kenro; Tanaka, Motoaki; Hanzawa, Teruo; and Kasai, Keiji, 3,700,454.
Hanzawa, Yasuo, to Okabe Company Limited. Thread rolling machine for manufacturing a particular type of rolled thread. 3,691,806, 9-19-72, Cl. 72-92.000.
Hao, Shya; Chasen, Alvin M.; and Miller, Alan M., to Majesco, Inc. Electrosurgery unit and instrument. 3,707,149, 12-26-72, Cl. 128-303.140.
Hap, Heinz: *See—*
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Hapgood, William H., to Raytheon Company. Safety ignition control system. 3,663,150, 5-16-72, Cl. 431-66.
Hapgood, William H., to Raytheon Company. Heat transfer structure. 3,704,748, 12-5-72, Cl. 165-165.000.
Hapgood, William H., to Raytheon Company. Compact heat exchanger with high intensity burner. 3,706,303, 12-19-72, Cl. 126-116.00r.
Happ, George M.; and Kottmeier, Merrill F. Magnetic structure for treating liquids containing calcareous matter. 3,669,274, 6-13-72, Cl. 210-222.000.
Happ, George M.; and Kottmeier, Merrill F. Magnetic structure for treating liquids containing calcareous matter. 3,680,705, 8-1-72, Cl. 210-222.
Happ, Marvin B.; and Harper, James G., to Texas Instruments, Incorporated. Composite metal laminate material and lead frame. 3,684,464, 8-15-72, Cl. 29-191.600.
Happe & Co.: *See—*
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Happe, Reynold, to McGraw-Edison Company. Switch mechanism with unitary biasing, contact, and detent spring. 3,676,627, 7-11-72, Cl. 200-159.00a.
Happe, Reynold, to McGraw-Edison Company. Chuck for drill or like. 3,680,877, 8-1-72, Cl. 279-62.000.
Happe, Wilhelm: *See—*
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Happel, Hermann E., to Norris Food Service, Inc. Food warming oven with removable tray racks. 3,658,047, 4-25-72, Cl. 126-21.
Happel, Hermann E., to Langsenkamp, F. H., Co. Container opening apparatus. 3,682,341, 8-8-72, Cl. 214-305.000.
Happel, William Emory, to Landis Tool Company, mesne. Work driving device for automatic camshaft grinding machine. 3,667,167, 6-6-72, Cl. 51-215.00h.
Happel, William J.; and Opal, Kenneth E., to Power Control Corporation. Apparatus for welding can bodies. 3,649,800, 3-14-72, Cl. 219-64.
Happold, Manfred R.: *See—*
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Groat, Craig R.; and Happold, Manfred R., 3,648,511.
Hara, Ei; and Watanabe, Takashi, to Tamagawa Kikai Kinzoku Kabushiki Kaisha. Platen locking device in powdered material compacting presses. 3,635,617, 1-18-72, Cl. 425-78.
Hara, Ei; and Suzuki, Shohachi, to Tamagawa Kikai Kinzoku Kabushiki Kaisha. Core rod stopping and releasing device in a powder material forming press. 3,671,164, 6-20-72, Cl. 425-414.000.
Hara, Ei; and Yokoyama, Tatsuichi, to Tamaggwa Kikai Kinzoku Kabushiki Kaisha. Powder-forming press. 3,687,586, 8-29-72, Cl. 425-78.000.
Hara, Hikoharu; Ohi, Reiichi; Sugiyama, Masatoshi; and Hatano, Tadao, to Fuji Photo Film Co., Ltd. Processing of photographic silver halide light-sensitive materials. 3,642,481, 2-15-71, Cl. 96-50.
Hara, Hikoharu; and Hatano, Tadao, to Fuji Photo Film Co., Ltd. Processing for photographic silver halide light-sensitive element. 3,652,277, 3-28-72, Cl. 96-50.
Hara, Hikoharu; Oishi, Yasushi; and Nagao, Kameji, to Fuji Photo Film Co., Ltd. Process for the preparation of color-photographic sensitive materials using nonionic and anionic surface active agents. 3,676,141, 7-11-72, Cl. 96-100.000.
Hara, Hisashi: *See—*
Maeda, Hajime; Takeishi, Yoshiyuki; Sato, Tai; Hara, Hisashi; and Okamoto, Yoshihiko, 3,634,737.
Takeishi, Yoshiyuki; Hara, Hisashi; Sato, Tai; and Sasaki, Isao, 3,636,421.
Hara, Katsuyuki; and Schonhorn, Harold, to Bell Telephone Laboratories, Incorporated. Techniques for forming seals between polyethylene and fluorocarbon polymers. 3,676,289, 7-11-72, Cl. 161-189.000.
Hara, Kazuhiko; and Imai, Hirozo, to Matsushita Denko Kabushiki Kaisha. Electromagnetic counter. 3,648,028, 3-7-72, Cl. 235-92.
Hara, Kazuo; Samoto, Mistunobu; Sawai, Masanobu; and Nakamura, Shiro, to Teikoku Hormone Mfg., Co., Ltd. and Japan Chemurgy Co., Ltd. Process for the crystallization of glucose, fructose, or mixture of glucose and fructose. 3,704,168, 11-28-72, Cl. 127-58.00.
Hara, Kunio, to Nifco, Inc. Binding device for fastening two plates. 3,651,545, 3-28-72, Cl. 24-73.
Hara, Michio: *See—*
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Hara, Minoru: *See*—
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Hara, Nobuhiro: *See*—
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Hara, Nobuyoshi. Process for producing isoprene. 3,652,702, 3-28-72, Cl. 208-681.
Hara, Shigeyoshi; Senoo, Masao; Yoshida, Tsunemasa; and Uchida, Moriya, to Teijin Limited. Copolyamideimine and copolyamidebenzimidazole, and processes for their preparation. 3,647,762, 3-7-72, Cl. 260-78.
Hara, Takeshi; Nakao, Shoichi; and Teranishi, Katsuya, to Hitachi, Ltd. Conveying apparatus with endless chain means. 3,658,166, 4-25-72, Cl. 198-16.
Hara, Tasuku: *See*—
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Hara, Yoshiaki; Masagaki, Akio; and Iguchi, Masaaki, to Nippon Steel Corporation. Apparatus for blowing high-temperature reducing gas into blast furnace. 3,692,293, 9-19-72, Cl. 266-29.000.
Hara, Yoshiteru: *See*—
Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, 3,668,917.
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Harada, Eiji, to Nippon Gakki Seizo Kabushiki Kaisha. Keyframe side pin guide for piano and like musical instruments. 3,688,634, 9-5-72, Cl. 84-432.000.
Harada, Hiroshi: *See*—
Hinohara, Kango; Nishino, Tadashi; and Harada, Hiroshi, 3,704,825.
Harada, Kazuto, to Kuraray Co., Ltd. Method of producing a moisture permeable sheet material. 3,665,157, 5-23-72, Cl. 219-384.
Harada, Kenichi, to Olympus Optical Co., Ltd. 1X objective for projection printing. 3,685,884, 8-22-72, Cl. 350-214.000.
Harada, Koichi: *See*—
Nakaguchi, Kohei; Nishikida, Tomozumi; Kawasumi, Shohachi; Maemoto, Kenichi; Sano, Takezo; Fujii, Yoshikazu; Harada, Koichi; and Ueda, Keijyu, 3,669,945.
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Harada, Motoo; and Sasaki, Kenichi, to Nissan Motor Company, Limited. Continuous vacuum advance system of ignition timing. 3,677,238, 7-18-72, Cl. 123-117.00a.
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Harada, Tetsuya; Fuzinami, Nobuo; Hasegawa, Koichi; and Shibatani, Akira, to Japan Synthetic Rubber Co., Ltd. 4-Tertiarycatechol-aqueous solution composition. 3,656,980, 4-18-72, Cl. 106-285.
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Haran, John A.: *See*—
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Harand, Elmar; and Schabert, Hans-Peter, to Siemens Aktiengesellschaft. Gas turbine installation for nuclear power plant. 3,666,623, 5-30-72, Cl. 176-60.
Harant, Gerhart Wilhelm, to Repco Research Proprietary Limited. Apparatus for use in balancing motor vehicle and other wheels. 3,636,773, 1-25-72, Cl. 73-466.
Harao, Norio: *See*—
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Harao, Norio; and Yano, Motohiro, to Tokyo Shibaura Electric Co., Ltd. Cathode ray tube with a continuous transparent jection and fiber optics section. 3,688,144, 8-29-72, Cl. 313-92.0lf.
Harao, Norio; and Yano, Motohiro, to Tokyo Shibaura Electric Co., Ltd. Unidirectional double deflection type cathode ray tube. 3,694,686, 9-26-72, Cl. 313-75.000.
Harasta, Clarence John: *See*—
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Haraszti, Tegze. Logic interconnections. 3,683,201, 8-8-72, Cl. 307-205.000.
Haraszti, Tegze, to Licentia Patent-Verwaltungs-G.m.b.H. Electrical storage element. 3,683,206, 8-8-72, Cl. 307-279.000.
Haraszti, Tegze, to Licentia Patent-Verwaltungs-G.m.b.H. Dynamic circuit arrangements. 3,684,903, 8-15-72, Cl. 307-304.000.
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Haratz, David: *See*—
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Harayama, Hiroshi: *See*—
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Harbauer, Paul W. Child-resistant stopper-type closure. 3,690,498, 9-12-72, Cl. 215-9.000.
Harben, Grover S., Jr.; Lewis, Ernest E.; and Sloan, Lloyd E., to Gainesville Machine Company, Inc. Poultry sizer. 3,651,939, 3-28-72, Cl. 209-121.
Harben, Grover S., Jr., to Gainesville Machine Company, Inc. Method and apparatus for eviscerating chickens or other fowl. 3,663,991, 5-23-72, Cl. 17-11.
Harben, Grover S., Jr., to Gainesville Machine Company, Inc. Apparatus for eviscerating chickens or other fowl. 3,685,096, 8-22-72, Cl. 17-11.000.
Harbeson, William D., to Ohmega Laboratories. Automatic gain control circuit. 3,668,556, 6-6-72, Cl. 331-109.
Harbisch, Heinrich. Spring-loaded coupling for seagoing vessels. 3,683,839, 8-15-72, Cl. 114-235.000.
Harbison, Deloris J. Adjustable hair foundation. 3,638,663, 2-1-72, Cl. 132-54.
Harbison, James E., to Certain-Teed Products Corporation. Explosion-proof asbestos-cement shapes. 3,667,977, 6-6-72, Cl. 106-99.
Harbison, Richard L., to Ingress Manufacturing Corporation. Crib construction. 3,634,894, 1-18-72, Cl. 5-100.
Harbolt, Bruce A.: *See*—
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Harbonn, Jacques; and Aubert, Jean-Pierre, to Institut Francais du Petrole des Carburants et Lubrifiants. Autonomous device for the storage and use of hydraulic and/or pneumatic power. 3,680,311, 8-1-72, Cl. 60-51.000.
Harbonn, Jacques, to Institut Francais du Petrole, des Carburants et Lubrifiants. Autonomous device for the storage and use of electrical power. 3,683,258, 8-8-72, Cl. 320-61.000.
Harbonn, Jacques; and Garnier, Jacques, to Institut Francais du Petrole des Carburants et Lubrifiants. Fluid tight electric connector. 3,693,133, 9-19-72, Cl. 339-48.000.
Harbort, Hans: *See*—
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Harbort, Ludwig, to Gunther Wagner Pelikan-Werke. Microcapsules as carriers for color reaction components in color reaction paper and process of making said microcapsules. 3,639,257, 2-1-72, Cl. 252-316.
Harbour, Philip F.; and Swaneck, Anthony J., to Westinghouse Electric Corporation. Refrigerator-freezer with meat keeper. 3,638,717, 2-1-72, Cl. 165-30.
Harbrecht, Karl; and Munn, Gerhard, to Rheinmetall G.m.b.H. Recoil mechanism for machine guns with a hydraulic counterrecoil brake. 3,668,969, 6-13-72, Cl. 89-43.000.
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Harbulak, Edward P., to M & T Chemicals Inc. Zinc electroplating electrolyte and process. 3,669,854, 6-13-72, Cl. 204-55.00r.
Harbur, Delbert R.; Anderson, John W.; and Money, Richard K., to United States of America, Atomic Energy Commission. Crucible coatings for preparation of U and Pu alloys containing Zr or Hf. 3,660,075, 5-2-72, Cl. 75-65.000.
Harby, Bernard, Limited: *See*—
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Harby, Bernard M., to Harby, Bernard, Limited. Wall base member. 3,638,374, 2-1-72, Cl. 52-100.
Harby, Bernard M., to Harby, Bernard, Limited. Carpet edge moulding. 3,663,986, 5-23-72, Cl. 16-7.000.
Harby, Bernard M., to Harby, Bernard, Limited. Drapery track assembly. 3,699,610, 10-24-72, Cl. 16-94.000.
Harclerode, John R., to Evans, Robert G., Company. Adjustable masonry saw. 3,635,206, 1-18-72, Cl. 125-13.
Harco Products, Inc.; d/b/a Honeyman Aluminum Products Co.: *See*—
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Harcourt, David N.; and Jack, David, to Allen & Hanburys Limited. Pharmaceutical composition containing 2-methyl-5-phenyl-1,2-

dihydro-3H-2-benzazepine for treatment of a condition associated with anxiety or tension. 3,642,993, 2-15-72, Cl. 424-244.
Harcourt, David N.; and Brooks, James R., to Allen & Hanburys Limited. 2-Methyl-5-phenyl-1,2-dihydro-3H-2-benzazepine or a salt thereof and process for preparing same. 3,655,651, 4-11-72, Cl. 260-239.
Harcuba, Siegfried, to Interverre Etablissement. Apparatus for the continuous production of profile glass and plate glass in band form. 3,659,028, 4-25-72, Cl. 65-185.
Harcuba, Siegfried, to Transglas, AG. Glass wall construction consisting of a plurality of glass elements of substantially U-shaped cross section. 3,702,047, 11-7-72, Cl. 52-241.000.
Hard, Carl G. Transportable breakwater. 3,691,774, 9-19-72, Cl. 61-5.000.
Hard, David A., to Engineered Products Company, The. Tamper-proof mirror mounting. 3,638,900, 2-1-72, Cl. 248-488.
Hard, Robert A.; Stoyell, Loyal A.; and Young, Claude F., to Union Carbide Corporation. Annealing tower. 3,703,039, 11-21-72, Cl. 34-174.000.
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Faure, Louis H.; and Hardart, Alfred T., 3,647,334.
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Hardeman, George Eduard Gerard; deceased (by Mulkens, Casper Antonius Henricus; administrator). Optical imaging system. 3,707,325, 12-26-72, Cl. 350-294.000.
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Harman, Bennett B., to Door Alarm Device Corporation. Magnetic door alarm. 3,668,579, 6-6-72, Cl. 335-207.000.
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Harman, James D. Plastic building block. 3,668,832, 6-13-72, Cl. 52-591.
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Harman, John N., Jr., to Drewry Photocolor Corporation. Photographic printing apparatus. 3,656,850, 4-18-72, Cl. 355-46.
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Harmer, David E.; Jarema, John R.; and Leng, Douglas E., to Dow Chemical Company, The. Method of bonding hollow fibers to plastic resin supports by radiation grafting. 3,697,351, 10-10-72, Cl. 156-272.
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Harmon, Albert D.; Anderson, Gordon C.; and Van Deusen, George S., to Maremont Corporation. Supporting means for automatic yarn piecing apparatus. 3,651,628, 3-28-72, Cl. 57-1.

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Harmon, Emerson R., to Universal Oil Products Company. Electrical fuseholder. 3,662,309, 5-9-72, Cl. 337-202.
Harmon, James R. Electric rocker switch for controlling multiple circuits with magnetic coupling members. 3,673,358, 6-27-72, Cl. 200-6.00r.
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Harmon, Peter E. Speed reading machine. 3,698,103, 10-17-72, Cl. 35-35.
Harmon, Robert W., to Chance, A. B., Company. Gas-separable electrical connector and method. 3,649,952, 3-14-72, Cl. 339-45.
Harmon, Samuel T., Jr.: *See—*
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Harmon, Samuel T., Jr.; and Monroe, Kenneth E., to Datamax Corporation. Quadrature injection control circuit. 3,646,448, 2-29-72, Cl. 325-326.
Harmon, Samuel T., Jr.; Monroe, Kenneth E.; and Venturi, Gino, to Datamax Corporation. Automatic equalization system for data transmission channels. 3,660,761, 5-2-72, Cl. 250-42.
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Harms, David A., to Bell Telephone Laboratories, Incorporated. PCM coder. 3,638,219, 1-25-72, Cl. 340-347.
Harms, Engelbert G.: *See—*
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Harnden, John D., Jr., to General Electric Company. Flexible electronic integrated circuit camera control assembly. 3,670,639, 6-20-72, Cl. 95-11.00l.
Harnden, John D., Jr., to General Electric Company. Simultaneous light triggering of thyristor arrays. 3,671,749, 6-20-72, Cl. 250-208.000.
Harnden, John D., Jr., to General Electric Company. Electrical resistance heater. 3,694,626, 9-26-72, Cl. 219-541.000.
Harned, John L., to General Motors Corporation. Vehicle wheel velocity control system and method. 3,667,816, 6-6-72, Cl. 303-21.00f.
Harned, William L., to Eastman Kodak Company. Method of fine-grinding. 3,677,476, 7-18-72, Cl. 241-21.000.
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Harnisch, Horst; and Raue, Roderich, to Farbenfabriken Bayer Aktiengesellschaft. Benzimidazolylfuran compounds. 3,637,734, 1-25-72, Cl. 260-309.2.
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Harnsberger, Bobby G.; and Payton, Joy T., to Texaco Inc. Fracturing method. 3,654,991, 4-11-72, Cl. 166-281.
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Harris, Carl R.; Banks, Robert B.; and Soward, Dallas V., to Electro Development Corporation. Aircraft weight and center of gravity indicator system. 3,701,279, 10-31-72, Cl. 73-65.000.
Harris, Carl Robert. Inflatable back and head floor rest. 3,680,917, 8-1-72, Cl. 297-456.000.
Harris, Cary D. Container and method for dispensing articles. 3,684,158, 8-15-72, Cl. 229-17.0rs.
Harris, Charles R., Sr. Sprinkler head. 3,664,586, 5-23-72, Cl. 239-233.
Harris, Colin; and Meacham, Eric Richard, to Hough, Hoseason & Company, Limited. Detergent solutions. 3,694,366, 9-26-72, Cl. 252-106.000.
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Harris, Daniel M.; Moore, Jack E.; Taylor, Chester E.; and Walczyk, Walter H., to Bunker-Ramo Corporation, The. Printed circuit panel scrubbing apparatus. 3,643,278, 2-22-72, Cl. 15-77.
Harris, Darrell M., to Monsanto Company. Epitaxial deposition method. 3,635,757, 1-18-72, Cl. 117-201.
Harris, David Neil; Hood, Geoffrey Markham; and Sheller, Alan, to Imperial Chemical Industries Limited. Compositions containing vinyl chloride polymers. 3,682,857, 8-8-72, Cl. 260-33.8ua.
Harris, David S., to Owens-Illinois, Inc. Leak detector. 3,683,677, 8-15-72, Cl. 73-49.200.
Harris, Derek Percival: *See—*
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Harris, Erik P.; Lean, Eric G.; and Powell, Carl G., to International Business Machines Corporation. Internal modulation of injection lasers using acoustic waves. 3,675,150, 7-4-72, Cl. 331-94.500.
Harris, Everett K.; Ericson, John P.; and Miller, Richard E., to All-Steel Equipment Inc. Method of making a drawer front. 3,643,323, 2-22-72, Cl. 29-511.
Harris, Everett K.; and Beaver, Donald V., to All-Steel Equipment, Inc. Desk tray arrangement. 3,648,849, 3-14-72, Cl. 211-126.
Harris, Ewell J. Pedestrian footwear cleaner. 3,649,994, 3-21-72, Cl. 15-311.
Harris, Frank L.; and Levine, Sidney. Process for anodizing aluminum materials. 3,666,638, 5-30-72, Cl. 204-35.00n.
Harris, Fred T.; and Resler, Edwin L., Jr., to United States of America, Army. Magnetically controlled proportional fluid amplifier. 3,672,387, 6-27-72, Cl. 137-81.500.
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Harris, George J.; and Richards, William D., to American Optical Corporation. Two-variable strip chart recorder. 3,681,774, 8-1-72, Cl. 346-62.000.
Harris, Gerald R. Pivotal arm band saw. 3,682,030, 8-8-72, Cl. 83-201.040.
Harris, Glyn I.; and Edwards, Alfred G., to Albright & Wilson Limited, mesne. Preparation of epoxylated phenolic resins by reacting polymers from aralkyl ethers and phenols with epihalohydrin. 3,632,555, 1-4-72, Cl. 260-47.
Harris, Gordon L., to Flight Dynamics Research Corporation. Aerodynamic vehicle. 3,664,611, 5-23-72, Cl. 244-42.
Harris, Grady W.; and Sprow, Frank B., to Esso Research and Engineering Company. Upflow coal liquefaction. 3,645,885, 2-29-72, Cl. 208-8.
Harris, Guy H.; Olson, Robert S.; and Wilcox, Robert D., to Dow Chemical Company, The. Preparation of hydroxyalkyl phosphates and polyphosphates. 3,652,743, 3-28-72, Cl. 260-982.
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Harris, Hugh A. Carpet roll carrier attachment. 3,705,658, 12-12-72, Cl. 214-620.000.
Harris, Jack, 1/2 to Rosenberg, Samuel. Collapsible aquarium. 3,658,035, 4-25-72, Cl. 119-5.
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Harris, John L., to Deltrol Corporation. Manual preset interval timer with latch holding means for contacts. 3,699,281, 10-17-72, Cl. 200-38.00r.
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Harris, Joseph Warren, to C. R. Industries. Long handled wrench. 3,691,877, 9-19-72, Cl. 81-177.00a.
Harris, Julian Taylor; and Turner, Thomas Adkins, to Fountain City Safety Corporation. Latching warning device for fifth wheel assemblies. 3,697,974, 10-10-72, Cl. 340-275.000.
Harris, Kenneth D. Clamp. 3,701,555, 10-31-72, Cl. 287-110.000.
Harris, Kenneth John, to Harris, Barbara Joan. Space heating apparatus. 3,686,472, 8-22-72, Cl. 219-213.000.
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Harris, Leonard F., to United States Steel Corporation. Apparatus for machining blast furnace hopper ring in place on the furnace. 3,687,007, 8-29-72, Cl. 90-12.000.
Harris, Leroy S., to K-G Industries, Inc. Material compacting apparatus. 3,674,397, 7-4-72, Cl. 425-145.000.
Harris, Lynn C. Waste compressor. 3,683,795, 8-15-72, Cl. 100-53.000.
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Harris, Nicholas D., to Morton-Norwich Products, Inc. Process for preparing 4-hydroxy-6,7-substituted-3-carboalkoxyquinolines. 3,665,005, 5-23-72, Cl. 260-287.
Harris, Norman M. Orthopedic traction apparatus. 3,669,102, 6-13-72, Cl. 128-84.00r.
Harris, Paul Anthony; and Phoenix, Lancelot, to Lucas, Joseph, (Industries) Limited. Speed limiting systems for internal combustion engines. 3,665,903, 5-30-72, Cl. 123-102.000.
Harris, Paul Anthony, to Lucas, Joseph, (Industries) Limited. Battery charging systems. 3,670,229, 6-13-72, Cl. 320-59.000.
Harris, Paul E.; and Mader, George E., to Syracuse University Research Corporation. Large dynamic range coherent radar processor. 3,680,098, 7-25-72, Cl. 343-7.700.
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Harris, Rano J., Sr.; and Harris, Rano J., Jr. Fluid sample injection valve. 3,641,822, 2-15-72, Cl. 73-422.
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Harris, Rano J., Sr.; and Harris, Rano J., Jr., to Precision Sampling Corporation. Syringe with wire plunger for dispensing infinitesimally small, accurately measured quantities of fluid. 3,677,448, 7-18-72, Cl. 222-387.000.
Harris, Rano J., Sr.; and Harris, Rano J., Jr., to Precision Sampling Corporation. Adapter unit, septum inlet devices and valves. 3,707,239, 12-26-72, Cl. 215-38.00r.
Harris, Raymond. Fishing plug with paired snagless hooks. 3,657,836, 4-25-72, Cl. 43-42.41.
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Harris, Richard C., Jr., to Brown and Williamson Tobacco Corporation. Tube maker registration control. 3,688,620, 9-5-72, Cl. 83-74.000.
Harris, Richard H.; and Laurer, George J., to International Business Machines Corporation. Actuator for momentary closure of an elastic diaphragm switch. 3,662,138, 5-9-72, Cl. 200-160.
Harris, Richard H., to International Business Machines Corporation. Capacitive coupling switch and actuator. 3,693,059, 9-19-72, Cl. 317-249.00r.
Harris, Richard H.; and Sedaris, Louis H., to International Business Machines Corporation. Elastic diaphragm switch actuator. 3,694,606, 9-26-72, Cl. 200-168.00g.
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Harris, Richard T. Mobile storage box. 3,666,312, 5-30-72, Cl. 296-1.00r.
Harris, Richard William, to Molins Machine Company Limited. Packing or wrapping machine of the mould wheel type. 3,659,694, 5-2-72, Cl. 198-25.
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Harris, Richard William, to Molins Machine Company, Limited. Packing or wrapping machines of the mould wheel type. 3,685,631, 8-22-72, Cl. 198-31.0aa.
Harris, Robert A.; and Harris, Spencer, to Harris-Muff, Inc. Foundry mold ventilation system. 3,631,791, 1-4-71, Cl. 98-115.
Harris, Robert B.; and MacDonald, John A., to Synergetics Research, Inc. Variable frequency infra red source. 3,665,338, 5-23-72, Cl. 331-94.5.
Harris, Robert George, to Amchem Products, Inc. Permanganate silicate cleaner. 3,677,953, 7-18-72, Cl. 252-103.000.
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Harris, Robert R.; and Kressman, Carl H., to Sherwin-Williams Company, The. Water-soluble polyester resin containing phenylindan dicarboxylic acid. 3,666,698, 5-30-72, Cl. 260-22.00m.
Harris, Roger Stephen: *See—*
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Harris, Roy M., to Battelle Development Corporation, The, mesne. Device for the extraction of core samples. 3,683,892, 8-15-72, Cl. 128-2.00b.
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Harris, Stephen E., to Chromatix, Inc. Tunable acousto-optic method and apparatus. 3,679,288, 7-25-72, Cl. 350-149.
Harris, Stephen O.; and Damon, John F. Polychromatic dye applicator. 3,688,530, 9-5-72, Cl. 68-205.00r.
Harris, Thomas G. Mechanical oxidation of unsaturated polyesters. 3,673,138, 6-27-72, Cl. 260-22.0tn.
Harris, Thomas G., to Armstrong Cork Company. Polyurethane millable gums based on polyesters having usaturation in both the acid and alcohol portions. 3,703,498, 11-21-72, Cl. 260-75.0nk.
Harris, Thomas L.; Boone, Joyce W.; and Thomas, Allen G. Game having target areas and pieces to be blown toward these areas. 3,661,389, 5-9-72, Cl. 273-95.
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Harris, William G., Jr., to United States of America, Navy. Mooring line cutter system. 3,701,331, 10-31-72, Cl. 114-221.00a.
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Harrison, Bobby G.; and Esche, Charles D., to Whirlpool Corporation. Frost anticipating bimetal control for an air conditioner. 3,640,087, 2-8-72, Cl. 62-227.

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Harrison, David; and Sainz, Raul T., to Ransburg Electro-Coating Corporation. Method of projecting plural component material upon a suitable base. 3,676,197, 7-11-72, Cl. 117-105.500.

Harrison, David M., to Allied Chemical Corporation. Yarn forwarding apparatus and process. 3,645,431, 2-29-72, Cl. 226-97.

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Harrison, George C., to Minnesota Mining and Manufacturing Company. Pallet with improved joint construction. 3,682,110, 8-8-72, Cl. 108-51.000.

Harrison, Henry. Ink distributing means comprising a bundle of skewed rollers. 3,687,073, 8-29-72, Cl. 101-350.000.

Harrison, Henry F., to American Lava Corporation. Dual-etched refractory metallizing. 3,661,635, 5-9-72, Cl. 117-212.

Harrison, Hugh T.; and Goodwin, Korwin J., to Dow Chemical Company, The. Aqueous hydraulic cement slurry. 3,686,008, 8-22-72, Cl. 106-92.000.

Harrison, Ian T.: *See—*
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Harrison, Ian T., to Syntex Corporation. Preparation of 2-(6-methoxy-2-naphthyl)propionic acid, -1-propanol, and propanal and intermediates therefor. 3,651,106, 3-21-72, Cl. 260-429.

Harrison, Ian T., to Syntex Corporation. β-(6-Methoxy-2-naphthyl)-9-borabicyclo(3,3,1)-nonane. 3,651,149, 3-21-72, Cl. 260-606.5.

Harrison, Ian T., to Syntex Corporation. 2-(1-Haloethyl)-6-methoxynaphthalenes. 3,652,683, 3-28-72, Cl. 260-612.

Harrison, Ian T., to Syntex Corporation. Di-(6-methoxy-2-naphthyl) cadmium. 3,658,858, 4-25-72, Cl. 260-429.

Harrison, Ian T., to Syntex Corporation. 6-Methoxy-2-naphthyl copper (I). 3,658,863, 4-25-72, Cl. 260-438.1.

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Harrison, Marvin H., to International Minerals & Chemical Corporation. Method for treatment of heavy media. 3,638,791, 2-1-72, Cl. 209-12.

Harrison, Maurice Clark; and Vancil, Donald Otis, to Reynolds Metals Company. Manufacture of N F/A1F double salt. 3,704,092, 11-28-72, Cl. 423-465.000.

Harrison, Michael Edward; and Jones, David Charles, to Imperial Chemical Industries Limited. High molecular weight polyamides. 3,634,319, 1-11-72, Cl. 260-45.75.

Harrison, Otto R., to Esso Production Research Company. Flexible connection for rotating blowout preventer. 3,638,721, 2-1-72, Cl. 166-.5.

Harrison, Robert E., to Leesona Corporation. Winding apparatus and method. 3,672,583, 6-27-72, Cl. 242-18.00r.

Harrison, Robert Henry, to Davy and United Engineering Company Limited. Forging manipulator. 3,696,651, 10-10-72, Cl. 72-22.000.

Harrison, Robert R. Airplane construction frame. 3,640,491, 2-8-72, Cl. 244-117.

Harrison, Robert R., to Nemo Corporation. Hydraulic steering system for boats. 3,657,889, 4-25-72, Cl. 60-54.5.

Harrison, Robert S.; and Lunsford, Max W., to Ford Motor Company. Carburetor throttle valve positioner. 3,682,148, 8-8-72, Cl. 123-97.00b.

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Harrison, Stanley, to KEV Electronics Corporation. Scanning system for ion implantation accelerators. 3,688,203, 8-29-72, Cl. 328-229.000.

Harrison, Stuart A.; and Stokes, Kenneth B., to General Mills, Inc. Nucleation of high molecular weight polyamides. 3,645,932, 2-29-72, Cl. 260-3.

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Harrod, John F.; Knight, Allan R.; and McIntyre, John S., to Dow Chemical Company, The. Catalyst for epoxidation process. 3,696,052, 10-3-72, Cl. 252-428.000.
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Hartmann, Ludwig: *See—*
Demme, Ernst; Schachowskoy, Theodor; Schuhmacher, Guenther; Fehlhaber, Juergen; and Hartmann, Ludwig, 3,647,594.

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Hartmann, Ludwig A., to Atlas Chemical Industries, Inc. Method of preparing aluminum complexes of polyhydroxy compounds. 3,686,249, 8-22-72, Cl. 260-448.0ad.

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Hartmut, Kessler: *See—*
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Hartner, Leo: *See—*
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Hartnett, James J.; and Feigin, Robert, to Sybron Corporation. Dyeing of polyacrylonitrile textile materials with cationic dyes in the presence of aromatic esters. 3,667,899, 6-6-72, Cl. 8-173.000.
Hartridge, Leslie, Limited: *See—*
Taylor, Cecil I., 3,686,797.
Hartsell, Joe L. Collet assembly. 3,701,538, 10-31-72, Cl. 279-30.000.
Hartshorn, Frank; and Millar, George, to USM Corporation. Shoe lasting machines. 3,631,554, 1-4-72, Cl. 12-10.5.
Hartter, Donald Ray, to Du Pont de Nemours, E. I., and Company. N-chloro derivatives of diiminosuccinonitrile. 3,661,971, 5-9-72, Cl. 260-465.5.
Hartung, Dale H., to Hughes Aircraft Company. Controlled temperature circuit package. 3,662,150, 5-9-72, Cl. 219-209.000.
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Hartwig, Karl; Engel, Herbert; and Schnall, Gunther, to Agfa-Gevaert Aktiengesellschaft. Electrostatic copier with removable cleaning module. 3,672,764, 6-27-72, Cl. 355-15.000.
Hartwig, Michael J.: *See—*
Gates, Lauren W.; and Hartwig, Michael J., 3,666,017.
Hartwig, Rudiger. Clock. 3,668,858, 6-13-72, Cl. 58-2.
Hartwimmer, Robert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for polymerizing fluorine-containing monomers using acids of metals as catalyst. 3,632,847, 1-4-72, Cl. 260-92.1.
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Hartz, George R.: *See—*
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Hartz, Gerald, to Reynolds Metals Company. Apparatus for feeding filled containers to a retort or the like. 3,662,676, 5-16-72, Cl. 99-360.
Hartz, Kenneth E.: *See—*
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Hartz, Marvin E.; Taormina, Anthony J.; and Grebik, Stephen J., to Essex International, Inc. Electrical connectors. 3,676,838, 7-11-72, Cl. 339-217.000.
Hartz Mountain Pet Foods, Inc.: *See—*
Waki, Isamu, 3,640,497.
Hartz, Norman; and Horne, Bruce K., to Microwave Associates (West) Inc., mesne. Microwave strip transmission line circulator. 3,636,479, 1-18-72, Cl. 333-1.1.
Hartz, Roy E.: *See—*
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Hartzell, Donald W., to Fedders Corporation. Gas burner. 3,658,256, 4-25-72, Cl. 239-552.
Hartzell, Harry F., Jr., to Koppers Company, Inc. Steep slope belt conveyor. 3,647,049, 3-7-72, Cl. 198-192.
Hartzell, James R.; and Reas, Arley J., to Piqua Aircraft Co. (Inc.). Apparatus for controlling the speed and phase of engines. 3,689,175, 9-5-72, Cl. 416-34.000.
Harubin, Walter S.: *See—*
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Haruna, Takashi; and Shimano, Akira, to Nissan Motor Company Limited. Trigger switch for motor vehicle safety devices. 3,639,710, 2-1-72, Cl. 200-61.48.
Haruna, Takashi; and Sato, Hitoshi, to Nissan Motor Company Limited. Motor vehicle pressure actuated deformation responsive switch with piston actuator and vent opening. 3,654,412, 4-4-72, Cl. 200-83.
Haruna, Takashi; and Taniguchi, Kazutaka, to Nissan Motor Company, Limited. Trigger switch for motor vehicle safety devices. 3,674,951, 7-4-72, Cl. 200-61.530.
Haruo, Takei: *See—*
Nakazawa, Yoshiyuki; Nakamura, Yashuharu; Haruo, Takei; Sato, Akira; and Ikeda, Tadashi, 3,681,080.
Haruta, Hiroshi; and Ueno, Katumi, to Citizen Watch Co., Ltd. Machine tool. 3,688,612, 9-5-72, Cl. 82-21.00b.
Haruta, Yukinori: *See—*
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Harvey, Barry Charles: *See—*
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Harvey, Charles V. Snowmobile suspension system. 3,705,637, 12-12-72, Cl. 180-5.00r.
Harvey, Charles V. Suspension system for snowmobiles. 3,705,749, 12-12-72, Cl. 305-27.000.
Harvey, Dennis G., to Allis-Chalmers Manufacturing Company. Lever actuated disk brake. 3,659,681, 5-2-72, Cl. 188-72.900.
Harvey, Dennis G., to Allis-Chalmers Manufacturing Company. Spring applied disk brake and handle control for industrial truck. 3,698,504, 10-17-72, Cl. 180-52.000.
Harvey Dental Specialty Company: *See—*
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Harvey, Donald M.: *See—*
Ewald, William P.; Nerwin, Hubert; and Harvey, Donald M., 3,672,274.
Harvey, Donald M.; and Inglis, George M., to Eastman Kodak Company. Generator-powered exposure control. 3,636,840, 1-25-72, Cl. 95-10.
Harvey, Donald M., to Eastman Kodak Company. Photographic film-unit assemblage. 3,636,845, 1-25-72, Cl. 95-13.
Harvey, Donald M., to Eastman Kodak Company. Projector mechanism for maintaining the film area projected on a screen preferably in focus and of a predetermined size. 3,649,113, 3-14-72, Cl. 353-101.
Harvey, Donald M., to Eastman Kodak Company. Automatic rangefinder. 3,653,762, 4-4-72, Cl. 356-4.
Harvey, Donald M., to Eastman Kodak Company. Folding camera. 3,665,831, 5-30-72, Cl. 95-39.000.
Harvey, Donald M., to Eastman Kodak Company. Molded plastic bellows. 3,665,832, 5-30-72, Cl. 95-39.000.
Harvey, Donald M., to Eastman Kodak Company. Lens housing support linkage for bellows type cameras. 3,668,992, 6-13-72, Cl. 95-39.000.
Harvey, Donald M.; and McConaughey, Randall T., to Eastman Kodak Company. Sequential control for camera diaphragm and shutter. 3,672,267, 6-27-72, Cl. 95-10.0ce.
Harvey, Donald M., to Eastman Kodak Company. Photographic apparatus. 3,673,939, 7-4-72, Cl. 95-13.000.
Harvey, Donald M., to Eastman Kodak Company. Print stripping mechanism. 3,673,940, 7-4-72, Cl. 95-13.000.
Harvey, Donald M., to Eastman Kodak Company. Compact film-pack camera. 3,677,160, 7-18-72, Cl. 95-40.000.
Harvey, Donald M., to Eastman Kodak Company. Photographic apparatus. 3,680,453, 8-1-72, Cl. 95-10.0ct.
Harvey, Donald M., to Eastman Kodak Company. Lap dissolve slide projector. 3,689,140, 9-5-72, Cl. 353-90.000.
Harvey, Donald M., to Eastman Kodak Company. Film transporting mechanism. 3,691,920, 9-19-72, Cl. 95-13.000.
Harvey, Donald M.; and Michater, Chester W., to Eastman Kodak Company. Latch and pressure-applying device. 3,693,521, 9-26-72, Cl. 95-13.000.
Harvey, Donald M., to Eastman Kodak Company. Compact folding camera. 3,693,526, 9-26-72, Cl. 95-39.000.
Harvey, Donald M., to Eastman Kodak Company. Copying device including radiation sensitive members electrically responsive to the reflected image. 3,699,586, 10-17-72, Cl. 346-74.00e.
Harvey, Donald M., to Eastman Kodak Company. Print stripping mechanism with self-aligning stripper fingers. 3,703,134, 11-21-72, Cl. 95-13.000.
Harvey, Donald M., to Eastman Kodak Company. Camera bellows. 3,706,267, 12-19-72, Cl. 95-39.000.

Harvey, Douglas G. Inflatable intravaginal applicator for animals. 3,701,351, 10-31-72, Cl. 128-260.000.

Harvey, Edwin Dennis; and Lodge, Frank, to Imperial Chemical Industries Limited. Anthraquinone dyestuffs. 3,669,994, 6-13-72, Cl. 260-380.000.

Harvey, Ernest Albert; and Russ, James Frederick, to American Cyanamid Company. Nitration process for phenolic compounds. 3,668,261, 6-6-72, Cl. 260-622.00r.

Harvey, Herbert C., Jr., to Tennessee Valley Authority. Green-wood fibrating means and method. 3,674,219, 7-4-72, Cl. 241-152.00r.

Harvey, James E.; Irland, Max J.; and Lindberg, Victor L., to Ford Motor Company. Glass window structures eliminating Jamin interference fringes. 3,647,285, 3-7-72, Cl. 350-319.

Harvey, James E., to Eastman Kodak Company. Spot monitor and viewing apparatus for film printing. 3,669,553, 6-13-72, Cl. 356-202.000.

Harvey, James Edward, to Eastman Kodak Company. Photographic printing apparatus and method for reproducing an original having separate major areas of respectively different densities. 3,694,079, 9-26-72, Cl. 355-77.000.

Harvey, James R., to Union Carbide Corporation. Curable polyepoxide compositions containing as a polyglycol amine and an alkylene polyamine. 3,645,969, 2-29-72, Cl. 260-47.

Harvey, James R. Preparation of starch from cellulose treated with phosphoric acid. 3,658,588, 4-25-72, Cl. 127-36.

Harvey, Joseph-Eric: *See—*
Burgess, John Leslie; and Harvey, Joseph-Eric, 3,693,899.

Harvey, Kelsey I. Ceramic product from fly ash and method of making same. 3,679,441, 7-25-72, Cl. 106-41.000.

Harvey, Lawrence, to BP Chemicals Limited. Method and apparatus for feeding pelleted materials. 3,700,140, 10-24-72, Cl. 222-1.000.

Harvey, Louis A. Gate latch locking device. 3,653,701, 4-4-72, Cl. 292-87.

Harvey, Mahlon A.; and Stricker, Charles D., to United States Steel Corporation. Method of for gas wiping wire emerging from a hot-dip coating bath. 3,707,400, 12-26-72, Cl. 117-102.00l.

Harvey, Merlin P.; and Relyea, Douglas I., to Uniroyal, Inc. Process for polymerization of pivalolactone. 3,658,768, 4-25-72, Cl. 260-78.3.

Harvey, Michael J.: *See—*
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Harvey, Michel J.: *See—*
Wakefield, Norman; Alexander, Stuart; Morrish, James Francis; Beck, William; Groves, Raymond Sturgis; and Harvey, Michel J., 3,693,930.

Harvey, Peter; Greene, David James; and Kaczmarski, Edward Zbigniew, to British Insulated Callender's Cables Limited. Capacitor winding apparatus. 3,689,002, 9-5-72, Cl. 242-56.100.

Harvey, Richard F., to Metaltronics, Inc. Precipitation hardening steel. 3,661,565, 5-9-72, Cl. 75-125.000.

Harvey, Richard George: *See—*
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Harvey, Richard P., Jr. Electrical switching apparatus utilizing conductivity of the human skin. 3,705,424, 12-5-72, Cl. 340-365.00r.

Harvey, Robert Calvin: *See—*
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Harvey, Robert H., to Esso Research and Engineering Company. Integrated ethylene production and LNG transporation. 3,663,644, 5-16-2, Cl. 260-683.

Harvey, Robert J.: *See—*
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Harvey, Ronald William Stanley, to A. R. I. Propoflor. Props. 3,689,017, 9-5-72, Cl. 248-354.00s.

Harvey, Samuel E.: *See—*
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Harvey, Wilfred G., Sr., to Globe Rubber Products Corporation. Dispensing device. 3,642,336, 2-15-72, Cl. 312-37.

Harvey, William R., to Morris, Philip, Incorporated. Isolation of malic acid from tobacco. 3,636,097, 1-18-72, Cl. 260-527.

Harvey, Wirt T.; and Merritt, John W., to Garrett Corporation, The. Electrofluidic transducer. 3,638,671, 2-1-72, Cl. 137-81.5.

Harvill, J. D.; and Harlan, Kenneth C., to Wallace-Murray Corporation. Method and die construction for fan blade. 3,664,165, 5-23-72, Cl. 72-168.

Harvin, Septimus A.: *See—*
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Harwald Company, Inc., The: *See—*
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Harwell, Conner J.: *See—*
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Harwell, Earnest W. Tension device for wires, straps, and the like. 3,673,642, 7-4-72, Cl. 24-68.00d.

Harwell, Ishmael S.: *See—*
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Harwell, Kenneth E.; and Galiano, Francis R., to Gulf Research & Development Company. Polystyrene-ethylene graft copolymer. 3,634,548, 1-11-72, Cl. 260-877.

Harwell, Roy M., Jr. Rotary offset silk screening apparatus with squeegee adjustments. 3,685,442, 8-22-72, Cl. 101-119.000.

Harwick, Warren J.; and Broome, Joseph Wesley, to Rex Chainbelt Inc. Railway car speed control transportation system. 3,650,216, 3-21-72, Cl. 104-166.

Harwood, Charles C.; and Holtz, William E., Jr., to Quaker Oats Company, The. Spray discharge nozzle. 3,675,855, 7-11-72, Cl. 239-597.000.

Harwood, James, to SCM Corporation, mesne. Process for manufacture of symmetrical glycerides. 3,634,473, 1-11-72, Cl. 260-410.7.

Harwood, James, to SCM Corporation. Esters of glycerol and polyhydric alcohol copolymers useful as emulsifying agents and process for their production. 3,637,523, 1-25-72, Cl. 252-356.

Harwood, Leopold A. Control system. 3,647,940, 3-7-72, Cl. 178-5.4.

Harwood, Leopold Albert, to RCA Corporation. Selective tint correction circuits. 3,663,744, 5-16-72, Cl. 178-5.4.

Harwood, Leopold Albert; and Wittmann, Erwin Johann, to RCA Corporation. Amplifier circuits. 3,699,257, 10-17-72, Cl. 178-69.5cb.

Harwood, Louis J.: *See—*
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Harwood, Mervyn Geoffrey; and Schofield, John, to U.S. Philips Corporation. Photo-conductive image intensifiers. 3,699,346, 10-17-72, Cl. 250-213.000.

Harwood, Milton G.; and Harwood, Louis J. Deflectable poultry beak appliance. 3,704,689, 12-5-72, Cl. 119-97.00r.

Harwood, Robert George, to AMP Incorporated. Impedance matching micro-strip connector. 3,643,201, 2-15-71, Cl. 339-17.

Harwood, William H.: *See—*
Banks, William P.; and Harwood, William H., 3,649,481.
Yang, Kang; Reedy, James D.; Johnson, Morris A.; and Harwood, William H., 3,649,482.

Harwood, William H., to Continental Oil Company. Anodic process for the preparation of tetraalkyl lead compounds. 3,655,536, 4-11-72, Cl. 204-59.

Harwood, William H., to Continental Oil Company. Electroplating of aluminum. 3,672,965, 6-27-72, Cl. 204-14.00n.

Harwood, William H.; and Banks, William P., to Continental Oil Company. Removal of molecular halogen from solution by passage through a membrane. 3,673,067, 6-27-72, Cl. 204-180.00p.

Harwood, William J. Credit card for information verification systems. 3,644,893, 2-22-72, Cl. 340-149.

Harz, Edward F., to Amsted Industries Incorporated. Expandable arbor assembly. 3,649,036, 3-14-72, Cl. 279-2.

Harz, Willi, to Hawera Hartmetall-Werkzeugfabrik Gesellschaft mit beschrankter Haftung. Rock drill. 3,687,207, 8-29-72, Cl. 175-410.000.

Harza, Richard D. Method for disposing of garbage and refuse. 3,650,120, 3-21-72, Cl. 62-62.

Harza, Richard D. Refuse disposing unit. 3,659,427, 5-2-72, Cl. 62-63.

Harza, Richard D. Method for garbage disposal. 3,685,309, 8-22-72, Cl. 65-62.000.

Harza, Richard D. System for completely disposing of refuse. 3,686,889, 8-29-72, Cl. 62-62.000.

Harzer, Peter, to Goltermann, Wandel u. Variable-frequency generator with digital frequency selection. 3,681,706, 8-1-72, Cl. 331-1.00a.

Has-Cap, Inc.: *See—*
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Hasbro Industries, Inc.: *See—*
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Rizzo, Bartolo, 3,672,678.

Hasbrook, Albert Howard, 50% to Wilcox, Stanley W. Vehicular attitude-control display. 3,701,092, 10-24-72, Cl. 340-27.0at.

Hasbrouck, Augustus; and Lauck, Lawrence J., to United Aircraft Corporation. Blow-in-door actuation for afterburner nozzle. 3,702,681, 11-14-72, Cl. 239-265.370.

Hasbrouck, Gene B.; and Green, Alan L., to Corry Jamestown Corporation. Drafting table. 3,687,088, 8-29-72, Cl. 108-2.000.

Hasbrouck, Gene B.; and Green, Alan L., to Corry Jamestown Corporation. Drafting table with improved vertical control mechanism. 3,687,089, 8-29-72, Cl. 108-2.000.

Hasbrouck, Gene B., to Singer Company, The. Hinge connection for panel and panel combination. 3,695,330, 10-3-72, Cl. 160-135.000.

Hasbrouck, Thad M., to United Aircraft Corporation. Function generator using fluid amplifiers. 3,667,491, 6-6-72, Cl. 137-81.500.

Hascher, Klaus: *See—*
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Haschke, Heinz; and Bader, Erich, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Hydroxycarboxylic acid polymers from polyacroleins. 3,686,145, 8-22-72, Cl. 260-670.000.

Hascic, Wladimir: *See—*
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Schwab, Johann; Buchel, Kurt; Eder, Otto; Hascic, Wladimir; and Marek, Ludwig, 3,698,027.

Hase, Helmut; and Siwik, Egbert, to Daimler-Benz Aktiengesellschaft. Construction of a steering knuckle bearing for the lubrication by means of lubricating oil. 3,659,869, 5-2-72, Cl. 280-96.1.

Hase, Helmut, to Daimler-Benz Aktiengesellschaft. Brake installation especially for commercial-type vehicles. 3,669,221, 6-13-72, Cl. 188-79.00k.

Hase, Marie: *See—*
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Hasebe, Morikuni; Fukuda, Teruo; Furusawa, Hisatomo; and Matsuba, Hironori, to Furukawa Electric Company Limited, The. Dielectric compositions for high-voltage application. 3,649,542, 3-14-72, Cl. 252-63.5.

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Hasebe, Takefumi; and Yamada, Kazuo, to Yokogawa Electric Works, Ltd. Intermittent recorders. 3,693,180, 9-19-72, Cl. 346-17.000.

Hasegawa, Goro; and Ito, Masaharu, to Canon Kabushiki Kaisha. Lens barrel. 3,674,343, 7-4-72, Cl. 350-250.000.

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Hasegawa, Hidenobu; Kusuda, Zenji; Tanaka, Akira; and Noritani, Jinichiro, to Matsushita Electronics Corporation and Matsushita Seiko Co., Ltd. Control circuit for driving, stopping and restarting a variable speed single phase induction motor. 3,633,082, 14-72, Cl. 318-212.

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Hasegawa, Hiromasa: *See—*
Kano, Gota; Yokozawa, Masami; Kawasaki, Tatsuo; Fujiwara, Shohei; and Hasegawa, Hiromasa, 3,634,931.

Hasegawa, Hiroshi; and Iriuchijima, Makoto. Process for the production of methyl ethyl ketone from butene. 3,701,810, 10-31-72, Cl. 260-597.00b.

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Hass, Hyman, to Applied-Fluidics, Inc. Fluidic leak detector. 3,683,676, 8-15-72, Cl. 73-45.100.
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Hatch, Gerald S., to Stanray Corporation. Canopy frame assembly for cab of airplane loading and unloading ramp. 3,644,952, 2-29-72, Cl. 14-71.
Hatch, Gordon H., to Automation Industries, Inc. Ultrasonic search unit. 3,672,211, 6-27-72, Cl. 73-71.500.
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Hatch, Melvin J.; Schmidt, Donald L.; and Smith, Hugh B., to Dow Chemical Company, The. Poly(hydroxyarylpolymethylene-sulfonium) zwitterionic monomers and surface coatings therefrom. 3,660,431, 5-2-72, Cl. 260-332.3.
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Hatch, Seymour A., to Chicago Rawhide Manufacturing Company. Track pin seal. 3,675,936, 7-11-72, Cl. 277-94.000.
Hatch, Wilfred E., to Keyes Fibre Company. Nested packaging trays produced by a rotary pulp molding machine having different sets of molding dies. 3,654,076, 4-4-72, Cl. 162-391.
Hatcher, Burrell R.; Miccioli, Aldo R.; Mohr, Max C.; and Sheldon, Edward J., to Raytheon Company. Multiple interleaved phased antenna array providing simultaneous operation at two frequencies and two polarizations. 3,706,998, 12-19-72, Cl. 343-754.000.
Hatcher, Cecil W.; and Warner, Gene. Concrete pavement cutting machine. 3,697,135, 10-10-72, Cl. 299-39.000.
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Hatcher, Donald W., Sr. Motor system and method for manipulating liquid matter. 3,683,973, 8-15-72, Cl. 141-1.000.
Hatcher, Herbert J., to Economics Laboratory, Inc. Gluconic acid production. 3,669,840, 6-13-72, Cl. 195-36.00r.
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Hathaway, Richard A., to Cartridge Television, Inc., mesne. Cartridge and tape stretch placement system for video reproducer and/or recorder. 3,665,114, 5-23-72, Cl. 179-100.2.
Hathaway, Richard A., to Cartridge Television, Inc. Spindle construction for tape transport. 3,669,384, 6-13-72, Cl. 242-194.000.
Hathaway, Richard Allen, to Ampex Corporation. Automatic threading video recorder. 3,697,679, 10-10-72, Cl. 178-6.60a.
Hathaway, Robert J., to Staley, A. E., Manufacturing Company. Preparation of carboxyhydroxy alkyl starch derivatives. 3,702,847, 11-14-72, Cl. 260-233.30r.
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Hatsuse, Toshikazu; Ueda, Hiromi; Ozawa, Shouiti; and Yasuda, Yuh, to Citizen Watch Co., Ltd. Timebase vibrator assembly. 3,699,412, 10-17-72, Cl. 318-128.000.
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Hatton, Richard L., to Precision Paper Tube Company. Variable inductor and method. 3,707,693, 12-26-72, Cl. 336-136.000.
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Hattori, Kenichi; Goukon, Atushi; Komeda, Yoshiaki; and Mori, Hiroshi, to Kao Soap Co., Ltd. Method for preventing sagging of coating materials. 3,637,580, 1-25-72, Cl. 260-40.
Hattori, Kenichi; Yamakawa, Tyoji; and Tuji, Akitoshi, to Kao Soap Co., Ltd. Dispersing composition. 3,686,133, 8-22-72, Cl. 252-354.000.
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Hatzakis, Michael, to International Business Machines Corporation. Variable depth etching of film layers using variable exposures of photoresists. 3,649,393, 3-14-72, Cl. 156-3.
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Haubein, Albert H., to Hercules Incorporated. Use of 2,6-di-tert-butyl-4-methylphenyl N-dichloroacetyl-N-methylcarbamate as a herbicide. 3,702,760, 11-14-72, Cl. 71-106.000.
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Haubner, John E., to Lamb-Weston, Inc. Method and apparatus for slicing potatoes. 3,643,721, 2-22-72, Cl. 146-241.
Hauck, Clifford A., to Union Carbide Corporation. Surface metal welding process and apparatus. 3,673,374, 6-27-72, Cl. 219-76.000.
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Haug, Albert, to Societe d'Etudes de Machines Thermiques. Internal combustion engine piston. 3,703,126, 11-21-72, Cl. 92-186.000.
Haug, Edward J., Jr., to United States of America, Army. Machine gun having a firing system means for obtaining substantially constant and minimum recoil forces. 3,677,135, 7-18-72, Cl. 89-42.00b.
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Haug, Walter, to Kassbohrer, Karl, Fahrzengwerke, G.m.b.H. Steering mechanism for tracked vehicles, especially snow mobiles. 3,666,033, 5-30-72, Cl. 180-6.48.
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Haughwitz, Rudiger D.; and Uhoch, John, Jr., to Olin Corporation. Phenylhydrazine salt of mercaptopyridine-N-oxide. 3,634,438, 1-11-72, Cl. 260-294.8.
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Haugwitz, Rudiger D.; and Lakshmi, Venkatachala, to Squibb, E. R., & Sons, Inc. Thiocyanic acid esters. 3,678,066, 7-18-72, Cl. 260-309.200.
Haugwitz, Rudiger D.; and Uhoch, John, Jr., to Olin Corporation. Method of controlling the growth of bacteria and using the phenythydrozine salt of 2-mercaplopyridine-N-oxide. 3,694,553, 9-26-72, Cl. 424-263.000.
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Haukedahl, Blane L. Combination table and serving bar. 3,672,719, 6-27-72, Cl. 297-118.000.
Haulotte, Georges. Assembly of block pulleys provided with a load measuring system. 3,679,012, 7-25-72, Cl. 177-147.000.
Haumer, Carlo. Structure for the assembling of modular furniture structure. 3,685,465, 8-22-72, Cl. 108-111.000.
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Haupt, Fritz, to Maag Gear Wheel & Machine Company Limited. Gear pump. 3,704,968, 12-5-72, Cl. 418-178.000.
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Hause, Gilbert K., to General Motors Corporation. Radial piston pump. 3,656,407, 4-18-72, Cl. 91-490.

Hause, Gilbert K., to General Motors Corporation. Hydrodynamic unit for power transmission. 3,659,414, 5-2-72, Cl. 60-54.

Hause, Gilbert K., to General Motors Corporation. Torque converter transmission. 3,670,596, 6-20-72, Cl. 74-710.500.

Hause, Gilbert K., to General Motors Corporation. Hydrostatic drive. 3,690,398, 9-12-72, Cl. 180-66.00r.

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Hauser, Henry A.: *See*—
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Hauser, Kenneth L.: *See*—
Morin, Robert B.; Spry, Douglas O.; Hauser, Kenneth L.; and Mueller, Richard A., 3,644,502.

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Hauser, Oscar G.: *See*—
Thourson, Thomas L.; and Hauser, Oscar G., 3,653,891.

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Forch, Friedrich; and Krob, Erwin, 3,656,702.
Freudenschuss, Otto, 3,637,125.
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Hausmann, Bernhard, to Blomberger Holzindustrie B. Hausmann KG. Method of making gymnastic bars of laminated wood. 3,654,010, 4-4-72, Cl. 156-178.

Hausmann, Delbert A., to American Pipe and Construction Co. Composition and method for sealing mortar-coated pipe. 3,689,305, 9-5-72, Cl. 117-70.00c.

Hausmann, George F., to United Aircraft Corporation. Aerodynamic window. 3,654,569, 4-4-72, Cl. 331-94.5.

Hausner, Jerry, to Narda Microwave Corporation, The. Selection circuitry. 3,676,751, 7-11-72, Cl. 317-137.000.

Hausner, Jerry, to Narda Microwave Corporation, The. High frequency sweep generator. 3,706,940, 12-19-72, Cl. 331-76.000.

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Hausslein, Robert W.; and Molvar, Henry E., Jr., to Amicon Corporation. Abrasion resistant coating of polyether polyurethane. 3,655,432, 4-11-72, Cl. 117-138.8.

Haussler, Hubert, to Beringer-Hydraulik R. Beringer & Co. Control valve block for hydraulically operated elevators. 3,687,011, 8-29-72, Cl. 91-459.000.

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Stauffacher, Dietrich; and Hauth, Hartmut, 3,642,862.

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Hauville, Francois. Carriage, notably for laboratory table. 3,632,180, 1-4-72, Cl. 312-209.
Havas, George; and Dewan, Shashi Bhushan, to Ajax Magnethermic Corporation. Control for frequency converters. 3,686,558, 8-22-72, Cl. 321-7.000.
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Havasi, Vilmos; and Bailey, Gene R., to Jovil Manufacturing Co., Inc., The. Toroidal coil winding machine. 3,662,965, 5-16-72, Cl. 242-4.
Haveg Industries, Inc.: *See—*
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Havekost, Donald G.: *See—*
Guenther, Karl R.; and Havekost, Donald G., 3,655,608.
Havel, Joseph F., to Raytheon Company. Automatic phase circuit. 3,663,759, 5-16-72, Cl. 179-15.
Havel, Karel. Drafting aid. 3,680,226, 8-1-72, Cl. 35-26.000.
Haven, Roger Lindsy, to Western Electric Company, Incorporated, mesne. Variable digital delay using multiple parallel channels and a signal-driven bit distributor. 3,675,049, 7-4-72, Cl. 307-293.000.
Havener, John W.; and Reyner, Franklin W. Selective dispenser with clip storage for dispensing small articles in preset quantities. 3,706,395, 12-19-72, Cl. 221-119.000.
Havens, Richard Calvin, to Motorola, Inc. Electrically and mechanically tunable microwave power oscillator. 3,688,219, 8-29-72, Cl. 331-107.00r.
Havens, Richard H., to Gulf Research & Development Company. Separation of organosulfur compounds from hydrocarbons. 3,661,771, 5-9-72, Cl. 208-240.
Haver-Lockhart Laboratories, Incorporated: *See—*
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Urton, John T.; Glass, Max E.; Donahue, Stephen F.; and Carlson, Arthur, Jr., 3,639,577.
Havera, Herbert John, to Miles Laboratories, Inc. (Phenyl piperazyl alkyl) 3,4-dihydrocarbostyril. 3,682,920, 8-8-72, Cl. 260-268.0bq.
Haverberg Auto Laundry Equipment Co., Inc.: *See—*
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Haverdink, Virgil Dean: *See—*
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Haverkamp, Klaus Dieter: *See—*
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Haviland, John F. Lifesaving helmet. 3,695,262, 10-3-72, Cl. 128-145.00r.
Haviland, Merrill L.: *See—*
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Havlik, Jaroslav J. Injection molding machine. 3,642,403, 2-15-72, Cl. 425-45.
Havno, Kaj, to Christiani & Nielsen A/S. Method of stabilizing sand foundations under building works submerged in water. 3,665,720, 5-30-72, Cl. 61-46.000.
Havranek, Milan; Zouhar, Drahomir; Dusik, Josef; Kucera, Jaromir; and Krejcirik, Jiri, to Elitex-Zavody textilniho strojirestvi, generalni reditestui. Knitting machines. 3,673,818, 7-4-72, Cl. 66-57.000.
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Hawera Hartmetall-Werkzeugfabrik Gesellschaft mit beschrankter Haftung: *See—*
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Hawerkamp, Manfred. Apparatus for making helical-seam tubing from a synthetic-resin strip. 3,690,993, 9-12-72, Cl. 156-429.000.
Hawes, Edward L. Emergency sign assembly. 3,672,323, 6-27-72, Cl. 116-28.
Hawes, James D., to Tektronix, Inc. Cathode ray tube having auxiliary deflection plate to correct pincushion distortion. 3,670,199, 6-13-72, Cl. 315-13.00r.
Hawes, John E.: *See—*
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Hawk, Daniel E., to Mobil Oil Corporation. Drive train for logging-while-drilling tool. 3,705,603, 12-12-72, Cl. 137-624.140.
Hawk, George W.; Geyer, Lewis H.; Mastropole, Alfred J.; and Garnjost, Kenneth D., to Moog Inc. Secondary injection thrust vector control. 3,646,762, 3-7-72, Cl. 60-204.
Hawker, Herbert W., to Cryogenic Engineering Company. Double canister assembly for storing samples in a vacuum insulated storage container. 3,707,079, 12-26-72, Cl. 62-188.000.
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Hawker Siddeley Canada Ltd.: *See—*
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Hawkes, Ivor; and Swithenbank, Joshua. Gas burners. 3,695,820, 10-3-72, Cl. 431-354.000.
Hawkes, Joseph S.; and Turk, David L., to Goodyear Tire & Rubber Company, The. Method of inflating tires with foamable material. 3,650,865, 3-21-72, Cl. 156-119.
Hawkes, Richard B.: *See—*
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Hawkes, Richard B.; and Johnson, Donald P., to Harris-Intertype Corporation. Mechanical book clamp. 3,702,129, 11-7-72, Cl. 198-180.000.
Hawkes, Thomas B.; and Hawkes, Richard B., to Harris-Intertype Corporation. Book cut-off saw. 3,706,252, 12-19-72, Cl. 83-470.000.
Hawkins, Albert W.: *See—*
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Hawkins, Arthur Ernest; and Taylor, Kenneth William, to Lever Brothers Company. Collagen products. 3,634,561, 1-11-72, Cl. 264-40.
Hawkins, Benjamin K. Cabinet housing motor controls mounted on plug-in modules. 3,633,075, 1-4-72, Cl. 317-114.
Hawkins, Benjamin K. Automatic bookmark. 3,697,100, 10-10-72, Cl. 281-42.000.
Hawkins, Charles T.; and Parkhill, Laverne O., to PPG Industries, Inc. Defect-marking device. 3,644,934, 2-22-72, Cl. 346-141.
Hawkins, Clay Earnest. Portable film holder. 3,688,108, 8-29-72, Cl. 250-50.000.
Hawkins, Dale E. Light fountain. 3,702,172, 11-7-72, Cl. 239-18.000.
Hawkins, Donald B. Interior door lock. 3,674,297, 7-4-72, Cl. 292-252.000.
Hawkins, Edwin George Edward: *See—*
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Hawkins, Edwin George Edward, to BP Chemicals (U.K.) Limited. Production of caprolactam. 3,654,268, 4-4-72, Cl. 260-239.3.
Hawkins, Frank H.: *See—*
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Hawkins, Harold R. Oil well tool positioning and coupling starting apparatus. 3,670,603, 6-20-72, Cl. 81-53.000.
Hawkins, Harold V.; Dick, Ralph A.; and Bongort, Edgar A., to Columbus McKinnon Corporation. Pendant hoist control device. 3,654,415, 4-4-72, Cl. 200-168.
Hawkins, James Mitchell, to Frankenstein Group Limited. Inflatable body-attachments for marine lifesaving. 3,672,609, 6-27-72, Cl. 244-122.0ae.
Hawkins, Jerry Marvin, to Dow Chemical Company, The. Process for preparing improved epoxy resin adhesives containing minor amount of a urethane modifier and a bisphenol type coupling agent. 3,634,327, 1-11-72, Cl. 260-47.

Hawkins, Jerry Marvin, to Dow Chemical Company, The. Epoxy resin adhesive compositions containing an isocyanate terminated polyurethane prepolymer and a chain extender. 3,636,133, 1-18-72, Cl. 260-824.

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Hawkins, John Charles, to Rubery, Owen & Co. Limited. Fastening means for the doors of freight containers, transport vehicles and the like. 3,653,704, 4-4-72, Cl. 292-218.

Hawkins, John J.; Storrs, Charles D.; and Zimmerman, Stanley D., to Columbian Carbon Company. Polymerization catalyst derived from zero-valent groups zero-valent state metal coordination complex with Group VA compound etc. 3,661,882, 5-9-72, Cl. 260-94.3.

Hawkins Mfg., Inc.: *See—*
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Hawkins, Paul Maddison, to General Alarm Corporation. Apparatus for forming a wiring system. 3,639,193, 2-1-72, Cl. 156-433.

Hawkins, Paul Maddison, to General Alarm Corporation. Automatic locking system. 3,681,954, 8-8-72, Cl. 70-216.000.

Hawkins, Paul Maddison, to Minnesota Mining and Manufacturing Company, mesne. Automatic locking system. 3,688,531, 9-5-72, Cl. 70-151.000.

Hawkins, Peter: *See—*
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Hawkins, Robert D. Hull design useful with houseboats. 3,662,412, 5-16-72, Cl. 9-1.

Hawkins, Roy: *See—*
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Hawkins, Roy I., to Hawkins Mfg., Inc. Replaceable blade combination for chiesel blade. 3,684,032, 8-15-72, Cl. 172-720.000.

Hawkins, Royal R., to Honeywell Inc. Indicating means for an automatic dispenser control system. 3,674,177, 7-4-72, Cl. 222-52.000.

Hawkins, Walter L., to Bell Telephone Laboratories, Incorporated. Multiconductor communications cable. 3,668,298, 6-6-72, Cl. 174-23.00c.

Hawkins, William E., to Du Pont de Nemours, E. I., and Company. Electrostatic pinning of dielectric film. 3,655,307, 4-11-72, Cl. 425-109.

Hawkins, William E., to Du Pont de Nemours, E. I., and Company. Electrostatic pinning of dielectric film. 3,660,549, 5-2-72, Cl. 264-22.

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Hawkins, William J., to Popular Science Publishing Company, Inc. Automobile anti-theft apparatus. 3,634,880, 1-11-72, Cl. 340-63.

Hawkins, William M., to Hercules Incorporated. Digital to analog converter. 3,705,399, 12-5-72, Cl. 340-347.0da.

Hawkinson, Paul H.: *See—*
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Hawks, John D., to General Electric Company. Data input device with hand-held selective circuit closing means. 3,676,750, 7-11-72, Cl. 317-112.000.

Hawks, Ronald W., to Roberts & Porter, Inc. Blanket bar and adapter bar assembly for printing blanket. 3,675,573, 7-11-72, Cl. 101-415.100.

Hawley, George F.; and Buettner, John H., to Ivanhoe Research Corporation, mesne. Methods and apparatus for automatically transferring and registering fabric workpieces and for combining them. 3,664,657, 5-23-72, Cl. 270-58.

Hawley, Harry Ray: *See—*
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Hawley, John B., to Akron Spool and Manufacturing Co. Method of making a bobbin barrel. 3,674,069, 7-4-72, Cl. 144-326.00r.

Hawley, John D.: *See—*
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Hawley, Robert L.: *See—*
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Hawley, Robert L.; Frederiksen, Christopher W.; and Hoer, Ralph A., to Ralston Purina Company. Method of treating vegetable protein. 3,642,490, 2-15-72, Cl. 99-17.

Hawley, Robert L., to Ralston Purina Company. Method for producing an artificial adipose tissue. 3,658,550, 4-25-72, Cl. 99-17.

Hawrylo, Frank Z., to RCA Corporation. Double epitaxial solution regrowth process and device made thereby. 3,649,382, 3-14-72, Cl. 148-171.

Hawrylo, Frank Zygmunt; and Kressel, Henry, to RCA Corporation. Method of forming semiconductor device with smooth flat surface. 3,692,593, 9-19-72, Cl. 148-172.000.

Hawryluk, Alexandra S.; and Hawryluk, John, to Control Research Products, Inc., mesne. Gas purifier unit. 3,675,396, 7-11-72, Cl. 55-225.000.

Hawryluk, John: *See—*
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Haws Drinking Faucet Company: *See—*
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Haws, John F. Apparatus for erecting poured concrete structures. 3,659,977, 5-2-72, Cl. 425-62.

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Hawthorne, John O.; and Mihelic, Edward L., to United States Steel Corporation. N-substituted 2-aminomethyl-2'-biphenyl-carboxylic acid and derivatives. 3,668,232, 6-6-72, Cl. 260-471.00a.

Hawthorne, Nathaniel F.: *See—*
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Hawthorne, Vaughn T. Air brake hose coupler gasket. 3,680,875, 8-1-72, Cl. 277-171.000.

Hawthorne, Vaughn T., to Keystone Industries, Inc. End-of-car impact absorbing device. 3,682,324, 8-8-72, Cl. 213-8.000.

Hawthorne, Vaughn T. Railroad car air brake failure indicator. 3,691,982, 9-19-72, Cl. 116-70.000.

Hawthorne, Vaughn T. Interlocking coupler. 3,698,571, 10-17-72, Cl. 213-153.000.

Hawthorne, Vaughn T., to Keystone Industries, Inc. Hopper car door lock. 3,707,306, 12-26-72, Cl. 292-113.000.

Hawthorne, William C. Apparatus and methods for feeding sheets of material from stacks with one side in vertical registration. 3,677,537, 7-18-72, Cl. 271-29.000.

Hawtree, George; and Hoyle, Edgar, to Bowden Controls Limited. Push-pull transmissions. 3,631,731, 1-4-72, Cl. 74-501.

Hawver, Ira M. Weighing scale assembly. 3,679,011, 7-25-72, Cl. 177-134.000.

Hay, Allan S., to General Electric Company. 4-Phenyl 2-(2'-hydroxy-meta-terphenyl-5'-yl)-dibenzofuran and 4,4'-diphenyl-2,2'-bidibenzofuran. 3,673,219, 6-27-72, Cl. 260-346.20m.

Hay, Charles N., to General Motors Corporation. Combination hydraulically and mechanically actuable disc brake with hydraulic wear adjustment. 3,643,763, 2-22-72, Cl. 188-71.8.

Hay, Charles N., to General Motors Corporation. Adjustable self-aligning bearing mount. 3,700,298, 10-24-72, Cl. 308-194.000.

Hay, Donald A.: *See—*
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Hay, Henry: *See—*
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Hay, John A.; and Johnson, Donald W., to Fuller Laboratories, Inc. Disposable speculum for animals. 3,631,852, 1-4-72, Cl. 128-3.

Hay, Leon: *See—*
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Hay, Robert R., to Hewlett-Packard Company. Frequency measuring system utilizing means for momentarily stopping the variable frequency generator. 3,643,126, 2-15-72, Cl. 315-26.

Hay, Russell G.: *See—*
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Hay, Russell G.; McNutly, John G.; and Walsh, William L., to Gulf Research & Development Company. Esterification of carboxylic acids with organic halides in the presence of water. 3,634,474, 1-11-72, Cl. 260-410.9.

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Hayday, William, to Power Car Door Corporation. Door actuator. 3,653,154, 4-4-72, Cl. 49-280.
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Hayes, John C.; Mitsche, Roy T.; Rausch, Richard E.; and Wilhelm, Frederick C., to Universal Oil Products Company. Catalytic composite of a platinum group component and a group IV-A metallic component with a carrier material containing alumina and crystallne. 3,660,309, 5-2-72, Cl. 252-442.

Hayes, John C.; and Pollitzer, Ernest L., to Universal Oil Products Company. Hydrocarbon conversion with a multicomponent catalyst. 3,691,064, 9-12-72, Cl. 208-136.000.

Hayes, John C., to Universal Oil Products Company. Aromatic hydrogenation process. 3,700,742, 10-24-72, Cl. 260-667.00r.

Hayes, John C.; Mitsche, Roy T.; Rausch, Richard E.; and Wilhelm, Frederick C., to Universal Oil Products Company. Hydrocarbon conversion process with a bimetallic catalyst. 3,702,293, 11-7-72, Cl. 208-139.000.

Hayes, John R.; Eckart, Francis H.; and Peck, Donald E., to General Motors Corporation. Rammer head. 3,670,624, 6-20-72, Cl. 89-47.000.

Hayes, John R., to General Motors Corporation. Ammunition canister. 3,688,639, 9-5-72, Cl. 89-45.000.

Hayes, John T.; and Currier, Robert G., to Collins & Aikman Corporation. Fabric containment constructions. 3,670,504, 6-20-72, Cl. 61-3.000.

Hayes, Kenyon Joseph, to Norwich Pharmacal Company, The. Process for preparing naphth [1,2-d]imidazole and intermediate therefor. 3,634,448, 1-11-72, Cl. 260-309.2.

Hayes, Lawrence E.: *See*—
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Squires, William C.; and Hayes, Lawrence E., 3,644,176.

Hayes, Lawrence P., to International Business Machines Corporation. Printed circuit generator. 3,668,990, 6-13-72, Cl. 95-12.000.

Hayes, Leonard L., to Potlatch Forests, Inc. Sheet handling apparatus. 3,642,151, 2-15-72, Cl. 214-6.

Hayes, Leonard L.; and Hottinger, Gerald J., to Potlatch Forests, Inc. Log positioning apparatus. 3,643,715, 2-22-72, Cl. 144-209.

Hayes, Leonard L. Hand truck attachment. 3,647,236, 3-7-72, Cl. 280-41.

Hayes, Leonard L., to Potlatch Forests, Inc. Sheet material accumulator. 3,651,961, 3-28-72, Cl. 214-6.

Hayes, Lester P.: *See*—
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Hayes, Lester P.; Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Solid deformation imaging. 3,637,385, 1-25-72, Cl. 96-48.

Hayes, Michael Richard, to United Kingdom Atomic Energy Authority. Apparatus for grading particles according to their sphericity. 3,672,500, 6-27-72, Cl. 209-116.000.

Hayes, Richard H., to Eagle-Picher Industries, Inc., mesne. Drilling apparatus. 3,637,318, 1-25-72, Cl. 408-11.

Hayes, Robert A.: *See*—
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Hayes, Robert L.: *See*—
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Clingenpeel, William R.; Cain, Charles L.; Hungerford, Philip C., Jr.; and Hayes, Robert R., 3,674,085.

Hayes, Robert R.; Fuller, John L.; and Stockham, James R., to Oglebay Norton Company. Method and apparatus for forming refractory panels. 3,669,449, 6-13-72, Cl. 271-74.000.

Hayes, Roy J., to Gardner-Denver Company. Muffler for pneumatic tool. 3,635,299, 1-18-72, Cl. 181-36.

Hayes, Stanley I., Jr., to USM Corporation. Integral microporous article and process of making. 3,668,056, 6-6-72, Cl. 161-159.000.

Hayes, Thomas: *See*—
Dacey, Paul F.; De Toma, Samuel; Hayes, Thomas; and Mc Namara, Matthew F., 3,673,712.

Hayes, Thomas A. Trolling device for boats. 3,633,531, 1-11-72, Cl. 114-145.

Hayes, Thomas J., Jr., to Anbeck Corporation. Double acting slips. 3,670,374, 6-20-72, Cl. 24-263.0ad.

Hayes, William F., to Texas Instruments, Incorporated. Digital simulation. 3,643,075, 2-15-72, Cl. 235-151.

Hayes, William H., to Alton Box Board Company. Handling perishable products. 3,635,361, 1-18-72, Cl. 214-10.5.

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Hayford, John W.: *See*—
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Hayhurst, Lewis J.; Avery, William L.; and Gels, Clarence B., to Swift & Company. Tamale manufacture. 3,649,303, 3-14-72, Cl. 99-182.

Haylett, James W.: *See*—
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Hayman, David Frank; and Wild, Anthony Musgrave, to B.D.H. Chemicals Limited. Substituted amides of 4-aryl-3-hydroxy butyric acids. 3,641,123, 2-8-72, Cl. 260-500.5.

Hayman, Dennis J., to Hydrometals, Inc., mesne. Single handle faucet valve. 3,680,592, 8-1-72, Cl. 137-625.400.

Hayman, Jack H., Jr.: *See*—
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Haymore, Ralph B., to Envirotech Corporation. Flotation apparatus. 3,679,056, 7-25-72, Cl. 210-221.000.

Hayne, Thomas F.; and Whited, Charles A., to Xerox Corporation. Photosensitive misfeed detector. 3,684,890, 8-15-72, Cl. 250-223.000.

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Hayner, Paul F.; and Brockway, Richard J., to Sanders Associates, Inc. Fluid flow restrictor. 3,688,800, 9-5-72, Cl. 138-42.000.
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Haynes, Harvey H.; Kahn, Lawrence F.; and Hoofnagle, Rodger A. Underwater connecting device. 3,704,679, 12-5-72, Cl. 114-51.000.
Haynes, James N., to Hercules Incorporated. Azidoformates and their use. 3,686,231, 8-22-72, Cl. 260-349.000.
Haynes, James W.: *See—*
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Haynes, John R. Welding torch oscillator. 3,633,812, 1-11-72, Cl. 228-27.
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Haynes, Peter, to Shell Oil Company. Carbon dioxide-diepoxide copolymers. 3,699,079, 10-17-72, Cl. 260-47.0ep.
Haynes, Raymond R.: *See—*
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Haynes, Richard Humphrey, to Tracked Hovercraft Limited. Linear induction motor secondary member. 3,667,397, 6-6-72, Cl. 104-148.0lm.
Haynes, Richard T.; Langguth, Robert P.; and Liss, Raymond L., to Monsanto Company. Enzyme additives. 3,634,267, 1-11-72, Cl. 252-137.
Haynes, Winfield Scott, Jr.; and Miller, Carroll T., to Dow Chemical Company, The. Method for the polymerization of alkenyl aromatic monomers. 3,639,372, 2-1-72, Cl. 260-93.5.
Hayre, Harbhajan Singh. Remote actuated pollution and oil flow control system. 3,697,952, 10-10-72, Cl. 340-147.00r.
Hays Corporation, The: *See—*
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United States of America, National Aeronautics and Space Administration, 3,696,833.
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Hays, Robert Guy; Pennell, Charles Ronald; Reed, Edwin Emmett; and Volk, Charles Edward, to Motorola, Inc. Method of doping semiconductor substrates. 3,690,969, 9-12-72, Cl. 148-188.000.
Hays, Russell Duane, to Schaub Engineering Co. Flow regulator. 3,643,685, 2-22-72, Cl. 137-501.
Hays, Willard C.; and Smith, James D., to Industrial Nucleonics Corporation, mesne. Cross-axis control for three or four roll calenders. 3,691,940, 9-19-72, Cl. 100-41.000.
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Hayward, Leonard. Cigaret smoking device. 3,695,275, 10-3-72, Cl. 131-171.000.
Hayward Manufacturing Company, Inc.: *See—*
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Hayward, Richard E., Jr., to Phillips Petroleum Company. Method of producing a soft outer surface of fine denier fiber on a nonwoven fabric. 3,684,601, 8-15-72, Cl. 156-148.000.
Haywood, Jesse B. Pipe aligning clamping device. 3,704,503, 12-5-72, Cl. 29-200.00p.
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Hazard, Robert E., to Polytop Corporation. Dispensing closure with rupturable diaphragm seal. 3,653,546, 4-4-72, Cl. 222-83.
Hazard, Robert E., to Polytop Corporation. Rotatable spout closures with latch structures. 3,655,099, 4-11-72, Cl. 222-153.
Hazard, Robert E., to Polytop Corporation. Safety dispensing closures. 3,655,103, 4-11-72, Cl. 222-530.
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Hazel, Herbert K., to International Business Machines Corporation. Wiring apparatus. 3,646,307, 2-29-72, Cl. 219-80.
Hazelhurst, Gerald D., to Mark Products, Inc. Marine streamer cable. 3,696,329, 10-3-72, Cl. 340-7.00r.
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Hazen, Stanley M.; and Heilman, William J., to Gulf Research & Development Company. Resin compositions containing hindered phenols. 3,647,923, 3-7-72, Cl. 260-878.
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Heacox, Russel L., to P & Z Co., Inc. Apparatus for actuating clam shell bucket. 3,684,040, 8-15-72, Cl. 175-202.000.
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Head, Beverly P., Jr.: *See—*
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Head, Billy D.; Fraini, Edward A.; and Martin, George R., to Dow Chemical Company, The. Process and catalyst for reducing sulfur in hydrocarbons. 3,705,097, 12-5-72, Cl. 208-217.000.
Head, Claude D., III, to Texas Instruments, Incorporated. Method of operating a computer to read information from cards. 3,705,416, 12-5-72, Cl. 235-61.11e.
Head, Glenn Dale; and Hadley, Howard C., to Deere & Company. Crop harvester. 3,646,732, 3-7-72, Cl. 56-2.
Head, Gordon Edwin; Jones, Kenneth Morgan; and Gendle, Eric, to Imperial Chemical Industries Limited. Polyester catalyst recovery. 3,647,362, 3-7-72, Cl. 23-22.
Head, Micheal David; and Thompson, John Robert Michael, to International Nickel Company, Inc., The. Collection of metal carbonyls. 3,688,474, 9-5-72, Cl. 55-48.000.
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Headrick, Edward E. Apparatus for confining floating materials. 3,662,891, 5-16-72, Cl. 210-242.
Heady, Orville E.; Towell, John F.; and Standifer, Richard L., to United States of America, Atomic Energy Commission. Plutonium hexafluoride reduction. 3,671,199, 6-20-72, Cl. 23-284.000.
Heagler, Richard B., to Pittsburgh Corning Corporation. Method and apparatus for removing a layer of combustible liquid from the surface of a body of water. 3,663,149, 5-16-72, Cl. 431-2.
Heagler, Richard B., to Pittsburgh Corning Corporation. Method and apparatus for burning combustible liquids within a confined burning area. 3,695,810, 10-3-72, Cl. 431-2.000.
Heal, David; and Parks, James D., to Westinghouse Learning Corporation. Document handling apparatus. 3,698,709, 10-17-72, Cl. 271-88.000.
Heal, Jeremy C.; Snape, Raymond; and Gower, Philip B., to USM Corporation. Automatically lasting machines. 3,660,857, 5-9-72, Cl. 12-127.
Heald, Charles Robert, to Monsanto Chemicals Limited. Foamable styrene polymer resins. 3,637,538, 1-25-72, Cl. 260-2.5.
Heald, Jerome Ingles. Bedpan washer with pistol type nozzle. 3,646,617, 3-7-72, Cl. 4-1.
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Healey, Daniel J., III; and Driscoll, Michael M., to United States of America, Navy, mesne. Wide deviation voltage controlled crystal oscillator with temperature compensation. 3,697,890, 10-10-72, Cl. 331-116.000.
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Healey, Robert Joseph; and Plany, Joseph, to Bell Telephone Laboratories, Incorporated. Integrated level detector circuit with gating arrangement to inhibit transient output signals in response to energization of the circuit. 3,651,470, 3-21-72, Cl. 340-17.
Healey, Robert Joseph; and Stocker, Helmut, to Bell Telephone Laboratories, Incorporated. Constant current series regulator with control of bias current energizing control circuit of the regulator. 3,652,922, 3-28-72, Cl. 323-4.
Healey, Robert Joseph, to Bell Telephone Laboratories, Incorporated. Low level amplifier. 3,668,539, 6-6-72, Cl. 330-17.000.
Healis, George A., to Behring Corporation. Screwdriving apparatus. 3,662,797, 5-16-72, Cl. 144-32.000.
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Healy, Kent A.; and Long, Richard P., to Research Corporation, mesne. Subterranean wall drain. 3,654,765, 4-11-72, Cl. 61-11.
Healy, Lawrence W.; Wang, Wu Lan; and Wang, Tsu-Huai. Method of producing a fibrous sheet composition. 3,655,471, 4-11-72, Cl. 156-148.
Healy, Mark, to Senninger Irrigation, Inc. Sprinkler head apparatus. 3,666,181, 5-30-72, Cl. 239-206.000.
Healy, Robert M.; and Marshall, Robert, to Bunker-Ramo Corporation, The. Electrical resistance element with a semiconductor overlay. 3,673,539, 6-27-72, Cl. 338-154.000.
Healy, Thomas Victor; and Pilbeam, Alan, to United Kingdom Atomic Energy Authority. Solvent extraction and electrowinning of copper. 3,703,451, 11-21-72, Cl. 204-106.000.
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Hearn, Charles L.; and Relph, James L., to Cities Service Oil Company. High density miscible fluid injection with aquifer encroachment. 3,687,198, 8-29-72, Cl. 166-274.000.
Hearn, Daniel P., to Atlantic Richfield Company, mesne. Optically pumped magnetometer including circuits for energizing the radiation source and the absorption cell. 3,646,430, 2-29-72, Cl. 324-.5.
Hearn, John R., to Hewlett-Packard Company. Acousto-optic band reject light filter and apparatus using same. 3,644,015, 2-22-72, Cl. 350-149.
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Hefendehl, Hansfriedrich: *See—*
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Heffernan, John J., to Bethlehem Steel Corporation. Method of constructing a ship. 3,656,446, 4-18-72, Cl. 114-77.

Heffington, Thomas E. Animal repellant pack. 3,702,677, 11-14-72, Cl. 239-55.000.

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Heffron, Donald B., to Aero-Flow Dynamics, Inc., mesne. Unitized air treating unit. 3,672,128, 6-27-72, Cl. 55-222.

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Hefner, Chester W., Jr. Gun stock cover. 3,665,990, 5-30-72, Cl. 150-52.00r.

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Heft, Eldon B., to General Electric Company. Current-limiting circuit breaker having arc extinguishing means which includes improved arc initiation and extingushing chamber construction. 3,632,926, 1-4-72, Cl. 200-144.

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Hegar, Gert: *See—*
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Hegar, Gert; Angliker, Hans-Joerg; and Peter, Richard, to Ciba Limited. Disazo dyestuffs containing a bridging group and at least one quaternary ammonium group. 3,635,940, 1-18-72, Cl. 260-155.

Hegar, Gert, to Ciba Limited. Basic azo dyestuffs containing an N-acyl amino-N-'pyridinium lower alkyleneaminophenyl group. 3,640,993, 2-8-72, Cl. 260-146.

Hegar, Gert, to Ciba Limited. Basic monoazo dyestuffs containing a heterocyclic diazo component. 3,658,781, 4-25-72, Cl. 260-156.

Hegar, Gert, to Ciba Limited. Basic azo dyestuffs containing a heterocyclic quaternay ammonium group. 3,661,886, 5-9-72, Cl. 260-156.

Hegar, Gert, to Ciba Limited. Quaternary pyridiniumazoleazo dyestuffs. 3,663,527, 5-16-72, Cl. 260-156.

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Hegedus, Balthasar, to Hoffmann-La Roche Inc. Triphenylmethyl imidazoles. 3,647,815, 3-7-72, Cl. 260-309.
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Heiberger, Francis E.; and Novak, Theodore F., to Danly Machine Corporation. Blankholder pinch indicator system for a power press. 3,661,003, 5-9-72, Cl. 72-32.
Heiberger, Francis E., to Danly Machine Corporation. Digital control of press synchronization. 3,675,098, 7-4-72, Cl. 318-85.000.
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Heightley, John Donnell, to Bell Telephone Laboratories, Incorporated. Threshold logic overflow detector. 3,700,874, 10-24-72, Cl. 235-164.000.
Heightman, Anthony Norman, to Marconi Company Limited, The. Television equipments for fault indication. 3,699,239, 10-17-72, Cl. 178-5.4te.
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Heil, Oskar, to Heil Scientific Laboratories, Inc. Acoustic transducer with a diaphragm forming a plurality of adjacent narrow air spaces open only at one side with the open sides of adjacent air spaces alternatingly facing in opposite directions. 3,636,27, 1-18-72, Cl. 179-115.5.

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Heiligman, Fred, to United States of America, Army. Method of packing flexible packages in a cylindrical container. 3,645,759, 2-29-72, Cl. 99-174.

Heilman, George P., to General Wire Overseas Corporation. Automatic feed mechanism for nailing guns. 3,664,565, 5-23-72, Cl. 227-137.

Heilman, Marlin S.; Kranys, Rudolph J.; and Jones, Donald, to Medrad, Inc. Angiographic injector equipment. 3,701,345, 10-31-72, Cl. 128-2.00r.

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Heilman, William J., to Gulf Research & Development Company. Acid resistant polyester resins. 3,641,201, 2-8-72, Cl. 260-867.

Heilman, William J., to Gulf Research & Development Company. Thermoplastic crosslinked polyester material and method of molding. 3,642,726, 2-15-72, Cl. 260-78.5.

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Heilman, William J., to Gulf Research & Development Company. Preparation of C_6-C_{10} olefin-maleic anhydride copolymers. 3,706,704, 12-19-72, Cl. 260-78.50r.

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Heilmann, Thorbjorn, to Smidth, F. L., & Co. Separation of alkali rich dust from cement kilns. 3,638,400, 2-1-72, Cl. 55-69.

Heilmayr, Peter F.; Kimbrell, Sol B.; and Giuffre, Joseph C., to Certain-Teed Products Corporation. Manufacture of plastic siding. 3,674,388, 7-4-72, Cl. 425-72.000.

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Heilmeier, George H., to RCA Corporation. Liquid crystal display assembly having independent contrast and speed of response controls. 3,655,269, 4-11-72, Cl. 350-160.

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Heiman, John C., to Dow Chemical Company, The. Recovery of dicyclopentadiene from cracked petroleum. 3,676,509, 7-11-72, Cl. 260-666.0py.

Heiman, Udo G., to Proll Products Co. Mechanically balanced keyboard and reed chamber assembly for musical instruments. 3,665,092, 5-23-72, Cl. 84-351.000.

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Heimann, Alfred, to Kochs Adlernahmaschinen Werke AG. Template follower mechanism. 3,695,194, 10-3-72, Cl. 112-121.150.

Heimann, Egon. Lateral file. 3,647,076, 3-7-72, Cl. 211-88.

Heimann, Georg. Magnetic lock. 3,654,782, 4-11-72, Cl. 70-276.

Heimann, Richard F., to Raytheon Company. Visual display system. 3,643,219, 2-15-72, Cl. 340-172.5.

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Heimberger, Helmut, to Opti-Holding AG. Slide fastener stringer. 3,665,561, 5-30-72, Cl. 24-205.1.

Heimberger, Helmut, to Opti-Holding AG. Method of making a slide-fastener coupling element. 3,705,229, 12-5-72, Cl. 264-281.000.

Heimberger, Werner, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. 2(α-Methyl-α hydroxy)-ethyl-4-morpholino-6-trichloromethyl-5-triazine. 3,684,806, 8-15-72, Cl. 260-247.50r.

Heimbigner, Gary Lee, to North American Rockwell Corporation. Multiple phase clock signal generator using frequency related and phase separated signals. 3,641,370, 2-8-72, Cl. 307-269.

Heimbigner, Gary Lee, to North American Rockwell Corporation. Address decode logic for a semiconductor memory. 3,665,473, 5-23-72, Cl. 340-166.0fe.

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Heimlich, Henry J. Urinary drainage method. 3,672,372, 6-27-72, Cl. 128-349.00r.

Heimlicher, Paul, to Maschinenfabrik Winkler, Fallert & Co., AG. Device for removing copies from normal path of travel. 3,684,279, 8-15-72, Cl. 271-64.000.

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Hein, Allyn J.; and Tribley, Gilbert, to Caterpillar Tractor Company. Piston for hydraulic translating unit. 3,707,113, 12-26-72, Cl. 92-248.000.

Hein, Donald L. Miniature camp stove. 3,648,680, 3-14-72, Cl. 126-38.

Hein, Edward R.; and Veit, William E., to ESB Incorporated. Method for producing porous metal battery electrode structure. 3,645,793, 2-29-72, Cl. 136-24.

Hein, Frank J.; and Fleck, Donald G., to TRW Inc. Heat reflector. 3,680,625, 8-1-72, Cl. 164-127.000.

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Hein, Matthew Edward, to American Can Company. Aerosol can with propellant actuated slide piston. 3,675,824, 7-11-72, Cl. 222-145.000.

Hein, Richard D. Elastomeric expansion joint for bridges and other structures. 3,690,226, 9-12-72, Cl. 94-18.000.

Hein, Richard W.; and Bruson, Herman A., to Eschemco Corporation, mesne. β~β~β'-trichloro-α-hydroxy-iso-butyric acid. 3,686,297, 8-22-72, Cl. 260-535.00h.

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Heine, Hans-Georg; Fuhr, Karl; Rudolph, Hans; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Moulding and coating masses hardenable by UV irradiation. 3,657,088, 4-18-72, Cl. 204-159.15.
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Heine, Helmut A., to Propper Manufacturing Co., Inc. and Optolechnik - G.m.b.H. Battery-operated devices. 3,643,083, 2-15-72, Cl. 240-10.66.
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Heine, Olaf; and Knisse, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Woven mat. 3,696,623, 10-10-72, Cl. 61-38.000.
Heine, Richard W.; and Loper, Carl R., Jr., to Wisconsin Alumni Research Foundation. Nodular irons and method for controlling same. 3,663,212, 5-16-72, Cl. 75-123.
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Heinelt, Roland, to Deckel, Friedrich, Prazisions Meckanik & Maschinenbau. Orbitally driven grinding apparatus. 3,641,710, 2-15-72, Cl. 51-90.
Heineman, William R.: *See—*
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Heinemann, Wilfried: *See—*
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Heinicke, Karl. Oil recovery vessel for the removal of oil and other polluting matter floating on the water surface. 3,690,464, 9-12-72, Cl. 210-242.000.
Heinis, Robert P., to General Instrument Corporation. Adjustably coupled radio frequency transformer. 3,662,306, 5-9-72, Cl. 336-119.
Heinkel, Ernst, Aktiengesellschaft: *See—*
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Heinlen, Frederick Jay, to AMP Incorporated. Method and apparatus for manufacturing lead frames. 3,650,232, 3-21-72, Cl. 113-1.
Heino, Jorgen: *See—*
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Heinonen, Russell M., Jr., to Technical Operations Incorporated. Cinematographic camera with quick-convert color-encoding filter. 3,656,841, 4-18-72, Cl. 352-45.
Heinonen, Russell M., Jr., to Technical Operations, Incorporated. Intermittent film pressure mechanism for cinematographic cameras. 3,677,629, 7-18-72, Cl. 352-225.000.
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Heinrich, Werner. Wire drawing machine. 3,651,682, 3-28-72, Cl. 72-281.
Heinrichs, Frank W., Jr.; Polasky, Alex F.; Honey, Charles C.; and Toothman, Lawrence R., to McGraw-Edison Company. Conformable insulation. 3,681,516, 8-1-72, Cl. 174-138.00e.
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Heins, Herbert, to Moller, J. D., Optische Werke GmbH. Process for the production of antidazzle glass filters. 3,652,318, 3-28-72, Cl. 117-33.3.
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Heintz, Walter K., to Ford Motor Company. Disc-type variable reluctance rotating machine. 3,700,944, 10-24-72, Cl. 310-168.000.
Heintze, Werner, to Loewe Opta GmbH. Input voltage control for the light integrating circuit of a pulsed flash device. 3,683,233, 8-8-72, Cl. 315-156.000.
Heintzelman, William J.; and Naiman, Michael I., to Petrolite Corporation. Reaction products of wax-anhydride compounds and alcohol. 3,699,154, 10-17-72, Cl. 260-485.00j.
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Heinz, Freiwald; and Karl-Heinz, Eggert, to BAT-Cegaretten-Fabriken GmbH. Apparatus for applying bronze powder to a continuously moving paper web. 3,705,568, 12-12-72, Cl. 118-57.000.
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Merkner, Albert H.; Viecili, Alessandro; and McCoy, Robert C. (said Merkner and said Viecili assor. to), 3,653,525.

Heinz, Hubert; and Honsberg, Gunter, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Chucking arrangement for hollow cores, particularly for newsprint rolls and the like. 3,704,837, 12-5-72, Cl. 242-68.200.

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Heinz, Robert G.; Cohen, Harry; and Carmel, Edwin L., to Pullman Incorporated. Refrigerator vehicle floor extrusion. 3,693,306, 9-26-72, Cl. 52-283.000.

Heinz, Schippers; and Hensen, Friedhelm, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Screw extruders with dual section ejection zone. 3,664,795, 5-23-72, Cl. 425-208.

Heinz, Walter E.: *See*—
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Heinz, Walter E.; and McAndrew, Francis B. Copolymers of trioxane with any one of vinyl cyclohexene dioxide, resorcinol diglycidyl ether, a diglycidyl ether of 2,2'-bis(4-hydroxy phenyl) propane and the triglycidyl ether of trimethylolpropane. 3,686,142, -22-72, Cl. 260-47.0fp.

Heinz, William W.: *See*—
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Heinze, Alvin L., to H & I Tag Lift Corporation. Tag wheel lift. 3,659,671, 5-2-72, Cl. 180-24.020.

Heinze, Gerhard: *See*—
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Heinzelmann, Walter; Flach, Karl-Egon; Vob, Alfred; and Kroschel, Heinz, to Dynamit Nobel Aktiengesellschaft. Igniter charge for propellant compositions and rocket propellant charges. 3,682,727, 8-8-72, Cl. 149-19.000.

Heinzer, Hans, to Schweizerische Industrie-Gesellschaft. Device for the continuous production of packages. 3,672,120, 6-27-72, Cl. 53-180.000.

Heinzmann, Rolf, to Bosch, Robert, Photokino G.m.b.H. Motion picture camera. 3,642,354, 2-15-72, Cl. 352-91.

Heinzmann, Werner; and Pfahl, Siegfried, to Messerschmitt-Bolkow Gesellschaft mit beschrankter Haftung. Apparatus for manufacturing flexible signal cable for aerodynamic body. 3,668,851, 6-13-72, Cl. 57-18.000.

Heirbaut, Edmond Marie; Fabre, Raymond Francis Andrian; Camps, Josephus Henricus Karel; and Mees, Michael Marcel, to International Standard Electric Corporation. Coin operated apparatus and signalling system. 3,646,575, 2-29-72, Cl. 179-6.3.

Heirich, William C. Wall paneling system. 3,667,183, 6-6-72, Cl. 52-497.

Heise, Georg, to Dornier A.G. Pulsation power unit. 3,678,692, 7-25-72, Cl. 60-247.000.

Heiser, Elmer F. Hydraulic pressure control apparatus. 3,636,749, 1-25-72, Cl. 72-351.

Heisler, Raymond A. Method and apparatus for applying plastic grips to wire bail handles. 3,675,305, 7-11-72, Cl. 29-439.000.

Heisler, Robert W.: *See*—
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Heiss, Frederick H.; and Lindblom, Carl E., to Valspar Corporation, The. Method and apparatus for tinting paint. 3,670,785, 6-20-72, Cl. 141-9.000.

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Heit, Allyn Harold; and Williamson, James Norris. Per(halo-oxygen) acid oxidation, purification and recovery apparatus. 3,663,417, 5-16-72, Cl. 204-301.

Heit, Allyn Harold; and Williamson, James Norris, to Sybron Corporation. Per(halo-oxygen) acid oxidation, purification and recovery process. 3,681,213, 8-1-72, Cl. 204-82.000.

Heit, Allyn Harold; and Williamson, James Norris, to Sybron Corporation. Per(halo-oxygen) acid oxidation, purification and recovery process and apparatus therefor. 3,703,508, 11-21-72, Cl. 260-212.000.

Heiter, George Ludwig: *See*—
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Heitman, George H., to Wyman-Gordon Company. Titanium alloy. 3,649,259, 3-14-72, Cl. 75-175.5.

Heitman, George H.; Strom, Eric T.; and Cerrone, Anthony G., to Wyman-Gordon Company. Extrusion die. 3,691,811, 9-19-72, Cl. 72-272.000.

Heitmann, Albert W.: *See*—
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Heitmann, Arnold M.; and Chambers, Robert O., to Northern Research and Engineering Corporation. Compressor. 3,658,442, 4-25-72, Cl. 417-243.

Heitmann, Bob, to Hauni-Werke Korber & Co. KG. Apparatus for regulating the start and termination of delivery of components of rod-shaped articles in filter cigarette machines or the like. 3,690,327, 9-12-72, Cl. 131-21.00r.

Heitmann, Guenter, 1/2 to Metallgesellschaft Aktiengesellschaft and 1/2 to Steel Company of Canada Limited, The. Rotary kiln reduction of iron oxides with pneumatic feeding of a portion of the charge. 3,667,933, 6-6-72, Cl. 75-33.

Heitmann, Gunter, to Metallgesellschaft Aktiengesellschaft and Steel Company of Canada Limited, The. Process for production of sponge iron. 3,663,201, 5-16-72, Cl. 75-33.

Heitmann, Gunter, to Metallgesellschaft Aktiengesellschaft. Process of directly reducing materials containing iron oxide in a rotary kiln. 3,705,795, 12-12-72, Cl. 75-36.000.

Heitmann, Knut; and Schneider, Eckart, to Leitz, Ernst, G.m.b.H. Method of synchronizing the change of digits in absolute-value measuring devices and apparatus therefor. 3,671,750, 6-20-72, Cl. 250-237.00r.

Heitmann, William E.: *See*—
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Heitmann, William E.; and Garofalo, Frank, to Inland Steel Company. Method for producing tough, high strength steel article. 3,704,180, 11-28-72, Cl. 148-12.000.

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Heitner, Alfred, to Esser, Klaus, KG. Screw connections for structures such as roof skylights. 3,694,013, 9-26-72, Cl. 287-189.36f.

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Heitz, Walter; and Pfitzner, Klaus, to Merck Patent Gesellschaft mit beschrankter Haftung. Swellable polymers of methacrylic and acrylic acid esters. 3,681,269, 8-1-72, Cl. 260-2.50b.

Heitzer, Heinrich, to Demag-Lauchhammer Maschinenbau und Stahlbau G.m.b.H. Machine for leveling a mixed bed dump. 3,687,265, 8-29-72, Cl. 198-36.000.

Heitzman, Charles J., 50% to Mechlin, Wilmer. Medicinal tablet breaker. 3,650,445, 3-21-72, Cl. 225-93.

Heitzman, Charles J. Storage system for molded articles. 3,683,467, 8-15-72, Cl. 25-133.000.

Heitzman, James O., to Hughes Aircraft Company. Receiver timing and synchronization system. 3,668,315, 6-6-72, Cl. 178-69.5.

Heiz, Max; and Kalocay, Rudolf, to Sprecher & Schuh A.G. Modular remote control and supervisory system switchgear. 3,701,101, 10-24-72, Cl. 340-163.000.

Hejj, Erwin, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Circular piston internal combustion engine. 3,692,001, 9-19-72, Cl. 123-8.090.

Hejl, Rainer: *See*—
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Hejzlar, Sid; Zweig, Robert M.; and Reynolds, George D., Jr., to Chatillon, John; division of Macrodyne-Chatillon Corporation. Variable balance1point counting device. 3,656,568, 4-18-72, Cl. 177-200.
Heki, Takao; Yasumatsu, Katsuharu; Sawada, Koshichi; and Funakoshi, Yoshiro, to Takeda Chemical Industries, Ltd. Method for puffing gelatinized rice grains. 3,701,667, 10-31-72, Cl. 99-81.000.
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Hekkanen, Eero M.; and Tokola, Alpo J., to Kaiser Steel Corporation. Method and apparatus for fabricating an offshore structure. 3,641,774, 2-15-72, Cl. 61-46.5.
Helasti, Olavi Erland. Method for making lignin containing groundwood by hydrolysis and alkali treatment of wood chips. 3,704,201, 11-28-72, Cl. 162-19.000.
Helava, Uuno V.; and Forrest, Robert B., to Bendix Corporation, The. Photogrammetric apparatus. 3,678,582, 7-25-72, Cl. 33-20.00d.
Helbig, Jim D., to Cyclo Manufacturing Company. Submerged vessel raising apparatus. 3,695,203, 10-3-72, Cl. 114-50.000.
Helbig, Walter A.; and Woods, William E., to RCA Corporation. Bowling split detector. 3,637,211, 1-25-72, Cl. 273-54.
Held, Charles J., Jr., to Ames, W. R., Company. Freestanding shelving apparatus with improved base member and column locking means. 3,655,159, 4-11-72, Cl. 248-188.1.
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Held, Edward C., Jr., to Phillips Petroleum Company. Apparatus for vacuum forming hollow articles from two sheets of thermoplastic material. 3,695,799, 10-3-72, Cl. 425-109.000.
Held, Franklin W. Racketball or tennis racket having a tubular metal frame. 3,664,668, 5-23-72, Cl. 273-73.
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Held, Kurt. Edge burr removal apparatus. 3,691,898, 9-19-72, Cl. 90-11.00r.
Held, Manfred, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Ignition system for warhead. 3,651,760, 3-28-72, Cl. 102-70.2.
Held, Manfred, to Messerschmitt-Bolkow-Blohm GmbH. Electrical switch acting with the force of inertia. 3,685,452, 8-22-72, Cl. 102-70.20r.
Held, Walter, to Licentia Patent-Verwaltungs-G.m.b.H. Indirectly heated hot-cathodes with pink ruby insulator. 3,652,894, 3-28-72, Cl. 313-340.
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Helda, Robert W., to Motorola, Inc. Contact bonding and packaging of integrated circuits. 3,698,073, 10-17-72, Cl. 29-577.000.
Helda, Robert W.; and Geyer, Harry J., to Motorola, Inc. Contact bonding and packaging of integrated circuits. 3,698,074, 10-17-72, Cl. 29-626.000.
Helda, Robert W., to Motorola, Inc. Face bonding machine. 3,698,618, 10-17-72, Cl. 228-3.000.
Helderman, James F., to Ladd Tool Company, Inc., mesne. Suspension clip structure and apparatus and method for securing same to a work surface. 3,665,583, 5-30-72, Cl. 29-254.
Heldt, Carl R. Structural toys. 3,698,123, 10-17-72, Cl. 46-29.000.
Heldt, Roger, to French, Thomas & Sons Limited. Curtain heading tape. 3,665,977, 5-30-72, Cl. 139-387.000.
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Helfand, Fredric E.; and Baer, Marvin B., to Scan Systems, Inc. Material container sorting apparatus and method. 3,639,728, 2-1-72, Cl. 235-61.11.
Helfer, Lawrence R.; and Hunkeler, Ernst J., to Gleason Works, The. Work holders for use with apparatus for transferring work blanks and workpieces in bevel gear making machines. 3,635,323, 1-18-72, Cl. 198-33.
Helfgen, Werner: *See—*
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Helgemeir, Heinrich, to Robel & Company. Apparatus for consolidating a track bed. 3,638,578, 2-1-72, Cl. 104-12.
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Helger, Roland: *See—*
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Helical Line Products Co.: *See—*
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Helicorporation: *See—*
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Helinski, Edward F., to International Business Machines Corporation. Fluid-operated diaphragm logic devices. 3,680,590, 8-1-72, Cl. 137-608.000.
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Helke, Robert C.: *See—*
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Helker, George J. Power driven vehicle for surface travel on a body of water. 3,670,684, 6-20-72, Cl. 114-66.05p.
Hell, Dr.-Ing., Rudolf: *See—*
Taudt, Heinz; and Keller, Hans, 3,657,472.
Hell, Peter-Matthias: *See—*
Scheuermann, Horst; and Hell, Peter-Matthias, 3,689,481.
Hell, Rudolf; Wellendorf, Klaus; Koll, Roman; and Lindemann, Eckhard, to Kommanditgesellschaft Dr.-Ing. Rudolf Hell. Method of composing half-tone pictures by means of electronic phototype setters. 3,688,033, 8-29-72, Cl. 178-15.000.
Hell, Rudolf, Dr.-Ing.: *See—*
Colditz, Armin O.; and Schmidt, Werner, 3,643,067.
Fels, Werner; and Andree, Klaus, 3,649,004.
Gertung, Kurt, 3,666,951.
Keller, Hans, 3,651,249.
Koll, Roman, 3,652,992.
Koll, Roman, 3,681,650.
Hell, Rudolf, Kommanditgesellschaft: *See—*
Henning, Eberhard, 3,671,666.
Helland, Howard M., to Appleton Mills. Adjustable fabric for use as a papermaking felt with zig-zag patterned cross-machine yarns. 3,652,389, 3-28-72, Cl. 162-275.
Helland, Kristian L.: *See—*
Gawron, Stanley A.; and Helland, Kristian L., 3,691,375.
Helland, Russell Earl, to Cameron-McIndoo Limited. Container adapted to incorporated adjustable shelving or the like. 3,650,588, 3-21-72, Cl. 312-306.
Hellar, Martin W.; and Kiener, Michael A., to Addressograph-Multigraph Corporation. Simultaneous conversion and fusion of electrostatically produced printing masters. 3,701,673, 10-31-72, Cl. 117-17.500.
Hellbarth, Heinz; Wendel, Wolfram; and Schulz, Alfred, to U.S. Philips Corporation. Input stage for a receiver, particularly for the medium wave. 3,646,449, 2-29-72, Cl. 325-383.
Helle, Gordon W., to Sawmill Hydraulics, Inc. Apparatus for splitting and chopping timber. 3,640,323, 2-8-72, Cl. 144-193.
Hellemans, Albert Joseph, to Gevaert-Agfa N.V. Web winding apparatus. 3,642,221, 2-15-72, Cl. 242-56.
Heller, Aaron L. Information retrieval system. 3,682,300, 8-8-72, Cl. 209-80.500.
Heller, Adam: *See—*
Brecher, Charles; Heller, Adam; and Pappalardo, Romano, 3,681,252.
Heller, Adam, to New England Nuclear Corporation. Distyrylbenzene-derivative scintillator solutions. 3,644,211, 2-22-72, Cl. 252-301.2.
Heller, George L.; Eckert, Frank J.; De Land, Charles L.; and Dingman, Robert W., to Cities Service Company. Process and apparatus for the manufacture of carbon blacks having improved dispersion and platewear characteristics. 3,642,446, 2-15-72, Cl. 23-2094.
Heller, Gunter: *See—*
Haberkern, Ottmar; and Heller, Gunter, 3,690,749.
Heller, Hansjorg: *See—*

Kirchmayr, Audolph; Peterli, Hans Jakob; and Heller, Hansjorg, 3,706,700.
Kirchmayr, Rudolf; Heller, Hansjorg; and Rody, Jean, 3,642,813.
Kirchmayr, Rudolf; Heller, Hansjorg; and Rody, Jean, 3,646,054.
Regenass, Franz; Schlumbom, Peter Christoph; and Heller, Hansjorg, 3,669,936.
Heller, Harold: *See*—
Corte, Herbert; and Heller, Harold, 3,687,912.
Heller, Harold M., to Dennison Manufacturing Company. Dispensing package with article-retaining tear strip. 3,685,648, 8-22-72, Cl. 206-78.00b.
Heller, Horst A.: *See*—
Mehnert, Walter E.; and Heller, Horst A., 3,671,850.
Heller, Hubert H.: *See*—
Durr, Alfred W.; Gunsser, Otto; and Heller, Hubert H., 3,688,362.
Heller, Karl-Heinz; Kreuder, Manfred; and Merz, Karl, to Farbenfabriken Bayer Aktiengesellschaft. N-(β-Cyanovinyl)-indolines. 3,637,745, 1-25-72, Cl. 260-326.11.
Heller, Kenneth G. Bonding machine. 3,668,047, 6-6-72, Cl. 156-541.000.
Heller, Martin G.; and Kelly, Donald D. Apparatus for processing transistor leads. 3,640,113, 2-8-72, Cl. 72-332.
Heller, Martin G.; and Kelly, Donald. De-reeling apparatus for electrical components. 3,701,298, 10-31-72, Cl. 83-23.000.
Heller, Paul R.; Brenner, William C.; and Philossky, Harold M., to Westinghouse Electric Corporation. Transposed conductor for dynamoelectric machines. 3,647,932, 3-7-72, Cl. 174-34.
Heller, Rudolf. Method of producing shaped bodies of low specific gravity. 3,640,787, 2-8-72, Cl. 156-77.
Heller, Walter E., & Company, mesne: *See*—
Clark, Norman R., 3,656,754.
Meixner, Edwin J., 3,638,003.
Wangard, William, 3,660,683.
Wangard, William; and Fleeton, David W., 3,665,090.
Heller, William C., Jr.: *See*—
Heller, William C., Jr.; Leatherman, Alfred F.; and Christian, Robert L. (said Leatherman and said Christian assors. to said) , 3,705,819.
Leatherman, Alfred F., 3,706,176.
Heller, William C., Jr.; and Davis, Donald W. Method of producing packaging material. 3,654,006, 4-4-72, Cl. 156-108.
Heller, William C., Jr. Printing method using electric through-field to indelibly lodge particles. 3,665,856, 5-30-72, Cl. 101-426.
Heller, William C., Jr.; Leatherman, Alfred F.; and Christian, Robert L., said Leatherman and said Christian assors. to said Heller, William C., Jr. Drying by induction heating. 3,705,819, 12-12-72, Cl. 117-93.200.
Heller, William C., Jr., mesne: *See*—
Leatherman, Alfred F., 3,652,361.
Heller, Zindel H., to Technicon Instruments Corporation. Apparatus for the elimination and/or detection of scatter signals in atomic fluorescence spectroscopy analysis means. 3,669,544, 6-13-72, Cl. 356-85.000.
Hellerbach, Joseph, to Hoffmann-La Roche Inc. 2-(2-Piperidyl) acetamides. 3,654,288, 4-4-72, Cl. 260-293.76.
Hellerbach, Joseph; Szente, Andre; and Walser, Armin, to Hoffmann-La Roche Inc. Process for the preparation of benzodiazepin-2-one derivatives. 3,657,223, 4-18-72, Cl. 260-239.3.
Hellerbach, Joseph; Szente, Andre; and Walser, Armin, to Hoffmann-La Roche Inc. Benzodiazepin-2-ones and processes for their preparation. 3,671,518, 6-20-72, Cl. 260-239.30d.
Hellerbach, Joseph; and Szente, Andre. (1,3) Oxazino (3,2-D) (1,4) benzodiazepine derivatives and process for the preparation thereof. 3,696,095, 10-3-72, Cl. 260-239.30t.
Hellerich, Walter, to Arbed S.A. Article of manufacture. 3,636,675, 1-25-72, Cl. 52-659.
Hellermann, Eberhard: *See*—
Lingg, Gerhard; and Hellermann, Eberhard, 3,704,773.
Lings, Gerhard; and Hellermann, Eberhard, 3,666,073.
Hellermann, Paul, G.m.b.H.: *See*—
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Kabel, Heinrich, 3,695,308.
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Muhl, Gerhard, 3,658,726.
Streu, Benno, 3,642,361.
Hellings, Thomas David Grinter: *See*—
Reynolds, Kenneth; and Hellings, Thomas David Grinter, 3,666,467.
Hellman, Erik, to Allmanna Svenska Elektriska Aktiebolaget. Mandrel for use in manufacturing a hollow elongated thin-walled metallic body and method of using such mandrel. 3,640,116, 2-8-72, Cl. 72-476.
Hellman, Robert W.: *See*—
Harris, John L.; and Hellman, Robert W., 3,696,453.
Hellmann, Reinhold: *See*—
Schneggenburger, Roger G.; and Hellmann, Reinhold, 3,639,139.
Hellmer, Lars; and Nolle, Wolfgang, to Pintsch Bamag Aktiengesellschaft. Process for the preparation of nitric acid of different concentrations. 3,634,031, 1-11-72, Cl. 23-160.
Hellmig, Ehrhard; and Rec·.ziegel, Erich, to Agfa-Gevaert Aktiengesellschaft. Material and a process for the production of color corrected reproductions. 3,663,220, 5-16-72, Cl. 96-6.
Hellmig, Ehrhard, to Agfa-Gevaert Aktiengesellschaft. Process for the production of negative or positive continuous-tone or screened images thereof. 3,676,122, 7-11-72, Cl. 96-23.000.
Hellmuth, Walter W., to Texaco Inc. Overbased alkaline earth metal sulfonate lube oil composition manufacture. 3,679,584, 7-25-72, Cl. 252-33.400.
Hellquist, Ivan A., to AGA Aktiebolag. Breathing gas regulator for aviators. 3,672,384, 6-27-72, Cl. 137-39.000.
Hellqvist, Ake Oscar Wilhelm, to Aktiebolaget Gustavsbergs Fabriker. Float-actuated valve. 3,633,610, 1-11-72, Cl. 137-398.
Hellriegel, Edmund: *See*—
Forsting, Bernard; Hellriegel, Edmund; and Pfadenhauer, Dieter, 3,700,076.
Hellsten, Martin; and Emanuelsson, Jan, to Mo Och Domsjo Aktiebolag. Detergent compositions containing a sequestrant and optionally a bleaching agent having a reduced tendency to attack copper, zinc and aluminum. 3,655,569, 4-11-72, Cl. 252-99.
Hellstrom, Harold Richard. Quick open flexible package. 3,635,376, 1-18-72, Cl. 222-107.
Hellstrom, Harold Richard. Quick-opening fulcrum package. 3,689,458, 9-5-72, Cl. 206-56.0aa.
Hellwarth, George A.: *See*—
Boinodiris, Stavros; and Hellwarth, George A., 3,697,980.
Hellwig, Helmut W., to United States of America, Army. Molecular frequency standard. 3,668,293, 6-6-72, Cl. 13-31.000.
Hellwig, Helmut W., to United States of America, Army. Molecular frequency standard. 3,693,008, 9-19-72, Cl. 250-41.300.
Hellwig, Karl: *See*—
Lohr, Ludwig; and Hellwig, Karl, 3,650,250.
Helm, Edward J., to Koppers Company, Inc. System for collecting dust and smoke when coke is pushed from a coke oven. 3,647,636, 3-7-72, Cl. 202-263.
Helm, Frank R., to Champion Paper Products Company. Web splicing apparatus. 3,645,463, 2-29-72, Cl. 242-58.1.
Helm, Herbert W.: *See*—
Smithe, Eliot S.; and Helm, Herbert W., 3,641,883.
Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Apparatus for aligning the pins on aligner chains of an envelope machine. 3,646,858, 3-7-72, Cl. 93-62.
Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Apparatus for feeding a band of overlapped blanks to a separator. 3,650,527, 3-21-72, Cl. 271-76.
Helm, Herbert W.; and Weir, Edgar V., to Smithe, F. L., Machine Company, Inc. Drive mechanism for an envelope machine. 3,656,036, 4-11-72, Cl. 318-41.
Helm, Herbert W.; and Weir, Edgar V., to Smithe, F. L., Machine Company, Inc. Method and apparatus for controlling the heat intensity of an envelope machine drier. 3,657,825, 4-25-72, Cl. 34-41.
Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Arrangement for adjustable split scoring of seal and bottom score of an envelope of a bag blank. 3,664,240, 5-23-72, Cl. 93-58.1.
Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Apparatus for conveying envelope blanks through the seal flap adhesive drying section of an envelope making machine. 3,666,261, 5-30-72, Cl. 271-45.000.
Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Patch cutting and application system for two independently timed patches on an envelope blank. 3,707,422, 12-26-72, Cl. 156-511.000.
Helm, Jack D.: *See*—
Conner, Joseph R.; Shovlin, Thomas F.; and Helm, Jack D., 3,680,421.
Helm Tractor & Equipment Company: *See*—
Holm, William Z., 3,699,922.
Helmcke, Conrad: *See*—
Bogenberger, Richard; Helmcke, Conrad; and Kritikos, Athanasios, 3,691,533.
Helmer, Josef, to Daimler-Benz Aktiengesellschaft. Form-locking connection of torque-transmitting structural parts, especially in automatic motor vehicle transmissions. 3,706,364, 12-19-72, Cl. 192-48.920.
Helmerich & Payne, Inc.: *See*—
Howe, Ralph W., 3,682,186.
Smith, Marvin Glenn, 3,699,735.
Wright, Gerald T.; and Smith, Marvin G., 3,680,276.
Helmers, Helmut; Werner, Georg; and Rix, Albert, to Olympia Werke AG. Apparatus for braking a tabulating carriage movement. 3,664,480, 5-23-72, Cl. 197-64.000.
Helmes, Christiaan T.: *See*—
Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., 3,655,479.
Helmes, Franciscus J.: *See*—

Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., 3,655,479.

Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., to Helmes Machinefabriek N.V. Method for gluing a strip of material against the side of a flat work piece, like a table leaf, and a devicefor performing this method. 3,655,479, 4-11-72, Cl. 156-212.

Helmes, Johan P. H.: *See*—
Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., 3,655,479.

Helmes Machinefabriek N.V.: *See*—
Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., 3,655,479.

Helmes, Wilhelmina P. M.: *See*—
Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., 3,655,479.

Helmick, James William: *See*—
Sherman, James Webster; and Helmick, James William, 3,687,168.

Helmick, James William, to Johns-Manville Corporation. Method of forming fibrous bodies with dissimilar densities and apparatus therefor. 3,652,377, 3-28-72, Cl. 161-166.

Helmick, James William; Goebel, Brownell Wesley; and Current, John Marvin, to Johns-Manville Corporation. Method and apparatus for fabricating flexible tubing. 3,682,746, 8-8-72, Cl. 156-429.000.

Helmick, William E., to PPG Industries, Inc. Peracid treatment of keratinous fibers. 3,634,020, 1-11-72, Cl. 8-111.

Helmig, Richard W.; and Steinmetz, Floyd, to Rotographic Machinery Company, The. Loop stabilize web fed variable repeat cutter-creaser system. 3,667,352, 6-6-72, Cl. 93-58.20r.

Helminen, Toivo. Roll assembly. 3,633,493, 1-11-72, Cl. 100-162.

Helminen, Toivo A., to Kimberly-Clark Corporation. Method and apparatus for affixing fasteners to a moving web. 3,668,771, 6-13-72, Cl. 29-431.000.

Helmrich, William F., to Ex-Cell-O Corporation. Aerating fuel nozzle. 3,684,186, 8-15-72, Cl. 239-400.000.

Helms, August R.: *See*—
Rightmire, Glenn K.; Bossler, Alfred T.; Burnell, Arthur E.; and Helms, August R., 3,706,330.

Helms, Charles Robert, to Container Corporation of America. Wraparound carrier. 3,635,452, 1-18-72, Cl. 229-40.

Helms, Charles Robert, to Container Corporation of America. Divider partitions for bottle carriers. 3,662,879, 5-16-72, Cl. 206-65.

Helms, Charles Robert, to Container Corporation of America. Finger hole arrangement for article carriers. 3,692,232, 9-19-72, Cl. 229-52.00b.

Helms, Clifford J.; and Papadopoulos, Stelios B., to Data Products Corporation. Printer hammer bank assembly. 3,643,595, 2-22-72, Cl. 101-93.

Helms, Clifford J.; and Papadopoulos, Stelios B., to Sperry Rand Corporation, mesne. Linear positioner. 3,666,977, 5-30-72, Cl. 310-13.

Helms, Clifford J.; McMillan, Norman; and Papadopoulos, Stelios B., to Sperry Rand Corporation, mesne. Magnetic disc assembly. 3,700,855, 10-24-72, Cl. 219-388.000.

Helms, Gerd: *See*—
Brendt, Dieter; Helms, Gerd; and Keunecke, Gerhard, 3,699,008.
Gehrken, Hubert; Helms, Gerd; Keunecke, Gerhard; and Krimphove, Herbert, 3,650,906.
Gehrken, Hubert; Helms, Gerd; Keunecke, Gerhard; and Krimphove, Herbert, 3,655,521.

Helms, Horace H., Jr.: *See*—
Rozner, Alexander G.; and Helms, Horace H., Jr., 3,634,283.

Helms, Horace H., Jr.; and Rozner, Alexander G., to United States of America, Navy. Pyrotechnic composition. 3,695,951, 10-3-72, Cl. 149-19.000.

Helms, Hosea W. Power sanding device. 3,656,920, 4-18-72, Cl. 51-170.

Helms, Millard O.; and Dunbar, Oris G. Vehicle wheel temperature monitoring system. 3,691,523, 9-12-72, Cl. 340-57.000.

Helms, Thomas F., to Idex Corporation. Apparatus for testing articles. 3,633,406, 1-11-72, Cl. 73-45.5.

Helmschrott, Norbert: *See*—
Vogtlin, Karl; Holtz, Hermann; and Helmschrott, Norbert, 3,683,401.

Helmut, Klapp: *See*—
Possberg, Jobst; Rostock, Kai; Nickl, Eligius; Otmar, Zajicek; and Helmut, Klapp, 3,696,079.

Helmut, Werner; Frank, Dieter; and Drachenberg, Werner, to Akzona Incorporated. Process for the production of nonwoven webs of continuous filaments. 3,676,245, 7-11-72, Cl. 156-181.000.

Helmuth, Gene R.: *See*—
Asbelle, Charles C.; Arrigo, Michael F.; Hunting, Kenneth E.; and Helmuth, Gene R., 3,673,613.

Helmuth, James G., to Chadwick-Halmuth Electronics, Inc. Stabilization of multiple shaker systems. 3,654,804, 4-11-72, Cl. 73-71.6.

Helpert, Edward Philip: *See*—
Rempert, Lawrence Arnold; and Helpert, Edward Philip, 3,670,153.

Helrigel, Robert A.: *See*—
Keithley, Harry E.; and Helrigel, Robert A., 3,699,882.

Helrigel, Robert A.; and Ward, Roderick K., to Gulf & Western Industrial Products Company. Press frame. 3,665,847, 5-30-72, Cl. 100-231.000.

Helrigel, Robert A.; and Ward, Roderick K., to Gulf & Western Industrial Products Company. Shut height counter drive for presses. 3,687,069, 8-29-72, Cl. 100-257.000.

Helsell, John B. Ski slope traversing and conditioning vehicle. 3,650,343, 3-21-72, Cl. 180-5.

Helseth, Richard Lee: *See*—
Dunphy, Kenneth Robert; and Helseth, Richard Lee, 3,705,636.

Helsley, Grover Cleveland: *See*—
Duncan, Robert Louis, Jr.; and Helsley, Grover Cleveland, 3,642,779.
Lunsford, Carl Dalton; Welstead, William John, Jr.; and Helsley, Grover Cleveland, 3,651,085.
Welstead, William John, Jr.; and Helsley, Grover Cleveland, 3,634,441.

Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. Benzimidazo[1,2-d][1,4]benzodiazepin-6(5H-)-ones. 3,642,778, 2-15-72, Cl. 260-239.3.

Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 4-(1-Substituted-3-pyrrolidinyl)-2H-1,4-benzoxazin-3(4H)-ones. 3,644,350, 2-22-72, Cl. 260-244.

Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. Certain 1-[3-(lower-alkyl or phenyl carbamoyloxy) propyl]4-phenyl-1,2,3,6-tetrahydropyridines and derivatives thereof. 3,644,381, 2-22-72, Cl. 260-295.

Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 1-Carbamoyl-3-phenylpyrrolidines. 3,644,398, 2-22-72, Cl. 260-326.3.

Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 1-Substituted-3-phenylpyrrolidines. 3,644,414, 2-22-72, Cl. 260-326.3.

Helsley, Grover Cleveland; and Boswell, Robert Frederick, Jr., to Robins, A. H., Company Incorporated. 3-Aryloxy -8-carbamoylnortropanes. 3,657,253, 4-18-72, Cl. 260-292.000.

Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 3-Aryl-8-carbamoyl nortropanes. 3,657,257, 4-18-72, Cl. 260-292.000.

Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 11, 12-Dihydrodibenz [b,f] azocin-6 (5H)-ones. 3,676,432, 7-11-72, Cl. 260-239.30t.

Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 1-Nitrosopyrrolidines. 3,694,458, 9-26-72, Cl. 260-326.50l.

Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 4-[1-(τ-Benzoylalkyl)-3-pyrrolidinyl]-2 H-1, 4-benzoxazin-3(4H)-ones. 3,699,105, 10-17-72, Cl. 260-244.00r.

Helson, Lloyd W.: *See*—
Grove, George L.; Stewart, Irving J.; and Helson, Lloyd W., 3,638,364.

Helton, Charles J., to North American Rockwell Corporation. Material removing device. 3,661,315, 5-9-72, Cl. 228-20.

Helton, Clyde W. Removable push rod guide for engine assembly. 3,698,060, 10-17-72, Cl. 29-200.00p.

Helton, Marion P. Pipe laying apparatus. 3,686,888, 8-29-72, Cl. 61-72.100.

Helvy, Fred Anderson, to RCA Corporation. Method of making a multialkali photocathode with improved sensitivity to infrared light and a photocathode made thereby. 3,658,400, 4-25-72, Cl. 316-5.

Helwig, Lawrence E.; and Lewis, Leon L., to United States Steel Corporation. Corrosion resistant tin-free steel and method for producing same. 3,634,147, 1-11-72, Cl. 148-6.35.

Helyer, Lawrence Edward, to J & T Engineers (Ascot) Limited. Fluid injectors. 3,669,354, 6-13-72, Cl. 239-126.000.

Helzner, Albert E., to Badger Company, Inc., The. Production of ethylbenzene. 3,691,245, 9-12-72, Cl. 260-671.00r.

Hemdal, Goran Anders Henrik: *See*—
Edstrom, Nils Herbert; and Hemdal, Goran Anders Henrik, 3,673,577.

Hemdal, Goran Anders Henrik; and Lennmarker, Nils Bertil, to Telefonaktiebolaget L M Ericsson. Buffer store arrangement for obtaining delayed addressing. 3,644,895, 2-22-72, Cl. 340-172.5.

Hemdal, Goran Anders Henrik, to Telefonaktiebolaget L M Ericsson. Apparatus for identifying those means of a plurality of means which have changed state. 3,653,003, 3-28-72, Cl. 340-173.

Hemdal, Goran Anders Henrik, to Telefonaktiebolaget L M Ericsson. Arrangement for controlling devices transmitting digital pulses in a computer controlled telecommunication system. 3,668,330, 6-6-72, Cl. 179-18.

Hemdal, Goran Anders Henrik, to Telefonaktiebolaget L M Ericsson. Method of controlling jumps to different programs in a computer working in real time. 3,668,646, 6-6-72, Cl. 340-172.5.

Hemdal, Hakan O.: *See*—

Ross, Joseph A.; and Hemdal, Hakan O., 3,656,154.
Hemesath, Gerhard, to Hazemag Hartzerkleinerungs- und Zementmaschinenbau Gesellschaft m.b.H. Comminuting device. 3,659,794, 5-2-72, Cl. 241-189.
Heming, Elizabeth C.; Mathews, Warren W.; and Wilson, William J., to Mac Millan Bloedel Limited. Balanced release pelleted bark products and process. 3,645,714, 2-29-72, Cl. 71-23.
Hemingway, Eric: *See—*
Brocklehurst, Peter John; and Hemingway, Eric, 3,657,139.
Hemken, Peter Chauncey, to Deere & Company. Vehicle access ladder. 3,656,578, 4-18-72, Cl. 182-20.
Hemker, Fritz L.: *See—*
Coulter, Earl E.; Hemker, Fritz L.; and Kazmierski, Elias A., 3,689,045.
Hemmer, William R., to Collins Radio Company. Mistuned VOR receiver alarm. 3,665,470, 5-23-72, Cl. 343-106.00r.
Hemmerling, Volker: *See—*
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Hemming, Charles B.; and Bernholz, Edward L., to Champion International Corporation. Form board coated with a porous polymer film and a form oil, said film characterized by having solid particles distributed therethrough. 3,703,394, 11-21-72, Cl. 117-5.100
Hemming, Harold George: *See—*
Aldridge, David Cecil; Broadbent, Douglas; Hemming, Harold George; Turner, William Brian; and Bent, Keith Joseph, 3,661,935.
Hemminger, Charles E., to Esso Research and Engineering Company. Integrated oxydehydrogenation and alkylation process. 3,660,520, 5-2-72, Cl. 260-683.43.
Hemminger, Charles E.; and Mayer, Ivan. Process for the dimerization of propylene and alkylation of the dimer. 3,662,020, 5-9-72, Cl. 260-683.43.
Hemminger, James W., to American Metal Climax, Inc. Moisture deflector. 3,690,079, 9-12-72, Cl. 52-97.000.
Hempel, George T.: *See—*
Hansen, Robert N.; Hempel, George T.; and Noesges, Raymond, 3,679,026.
Hempel, Gerhard; Wieske, Reinhold; Krieger, Bernhard; and Kaspar, Emanuel, to Schering A.G. Catalytic preparation of 17α-acyloxy-20-keto-steroids. 3,700,660, 10-24-72, Cl. 260-239.550.
Hemphill, Virgil Dean, to Du Pont de Nemours, E. I., and Company. Process for preparing isochloroprene. 3,637,873, 1-25-72, Cl. 260-655.
Hempstead, Cyril Frank, to King, Geo W. Conveyor systems. 3,690,269, 9-12-72, Cl. 104-172.00s.
Hemsath, Klaus H., to Midland-Ross Corporation. Quench system for pipes. 3,671,028, 6-20-72, Cl. 266-6.00s.
Hemsley, Brian; Hinbest, Lionel Frederick; and Marshall, Joseph William. Measuring apparatus and methods utilizing a single line scan television camera. 3,666,885, 5-30-72, Cl. 178-6.8.
Hemstock, Russell A., to Esso Production Research Company. Ice control about marine structures. 3,702,542, 11-14-72, Cl. 62-66.000.
Hemwall, Robert W., to Shell Oil Company. Leather lubricating process and composition. 3,656,881, 4-18-72, Cl. 8-94.23.
Henault, Peter B.: *See—*
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Hendel, Hans W.; Chu, Tsu-Kai; and Simonen, Thomas C., to United States of America, Atomic Energy Commission. Dynamic stabilizer for plasma instabilities to improve plasma confinement and to increase plasma density. 3,668,066, 6-6-72, Cl. 176-5.000.
Hendershot, James R., to Vibrac Corporation. Electromagnetic clutch-brake devices. 3,672,476, 6-27-72, Cl. 192-21.500.
Hendershot, James R.; and Searle, Robert F., to Vibrac Corporation. Magnetic devices. 3,680,671, 8-1-72, Cl. 192-21.500.
Hendershot, James R., Jr.; and Searle, Robert F., to Vibrac Corporation. Combination magnetic particle clutch and brake assembly. 3,664,473, 5-23-72, Cl. 192-21.5.
Hendershot, Richard E., to Harvey Dental Specialty Company. Valve for dispensing measured quantities of liquid. 3,650,305, 3-21-72, Cl. 141-50.
Henderson, Albert E., Jr. Quick cure process for making superphosphates of low fluorine content. 3,672,828, 6-27-72, Cl. 23-109.000.
Henderson, Charles A., to Kimberly-Clark Corporation. Portable manually operable cutting machine for rolled sheet material. 3,659,487, 5-2-72, Cl. 83-447.
Henderson, Charles R., to LTV Aerospace Corporation. Harmonic information detection technique. 3,681,528, 8-1-72, Cl. 178-6.800.
Henderson, Clifford W. Spin down. 3,665,641, 5-30-72, Cl. 46-81.
Henderson, Craig, to Emerson & Cuming, Inc., mesne. Spray dried product for feed in the manufacture of hollow glass spheres and process for forming said spray dried product. 3,699,050, 10-17-72, Cl. 252-317.000.
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Henderson, Edward. Piperazinium mono (acetylsalicylate). 3,703,519, 11-21-72, Cl. 260-268.00r.
Henderson, Eulas W., to Phillips Petroleum Company. Carbon black reactor with positionable choke. 3,660,039, 5-2-72, Cl. 23-259.5.
Henderson, Gary A. Anti-cribbing device for horses. 3,687,112, 8-29-72, Cl. 119-29.000.
Henderson, George L., to Applied Technology Corporation. Method of generating stable fogs. 3,654,175, 4-4-72, Cl. 252-305.
Henderson, Harold B., to Texas Instruments, Incorporated. Air deliverable seismic system. 3,704,764, 12-5-72, Cl. 181-.5vm.
Henderson, Harold Bruce, to Texas Instruments, Incorporated. Scanner system. 3,632,870, 1-4-72, Cl. 178-7.6.
Henderson, Homer I. Ball throwing air gun. 3,662,729, 5-16-72, Cl. 124-11.000.
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Henderson, James Neil, to Goodyear Tire & Rubber Company, The. Polymers of 3-methyl-1,3-pentadiene. 3,652,512, 3-28-72, Cl. 260-79.5.
Henderson, John Franklin, to Litton Business Systems, Inc. Logic processing system. 3,688,261, 8-29-72, Cl. 340-146.1ab.
Henderson, John Frederick: *See—*
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Henderson, Larry D.; and Johnson, Craig E., to United States of America, Navy. Azeotropic removal of water from ordnance. 3,702,271, 11-7-72, Cl. 149-38.000.
Henderson, Larry D.; and Wilson, Robert C., to United States of America, Navy. Continuous process for manufacturing small particle nitrocellulose. 3,702,353, 11-7-72, Cl. 264-3.00d.
Henderson, Paul D., to Superior Electric Company, The. Automatic actuator for a drilling machine. 3,698,826, 10-17-72, Cl. 408-17.000.
Henderson, R., to Arcair Company. Arc cutting of metals and method of control of cutting depth. 3,659,071, 4-25-72, Cl. 219-69.
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Henderson, Wayne L.; and Dills, Raymond L., to General Electric Company. Combined baking and broiling gas oven. 3,659,579, 5-2-72, Cl. 126-21.
Henderson, William E.; and Ross, Camilla B. Freezing-mixing process. 3,684,540, 8-15-72, Cl. 106-164.000.
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Hendges, Louis W. Mirrored marine aquarium. 3,706,299, 12-19-72, Cl. 119-5.000.

Hendley, Dennis Alfred, to Decca Limited. Automatic steering systems. 3,673,977, 7-4-72, Cl. 114-144.000.
Hendley, Dennis Alfred; and Boersma, Sipko L., to Decca Limited. Angular position sensors. 3,699,558, 10-17-72, Cl. 340-196.000.
Hendlin, David; Stapley, Edward O.; Del Val, Sagrario Mochales; and Mata, Justo M., to Merck & Co., Inc. Antibacterial composition containing (-)(cis-1,2-epoxypropyl)phosphonic acid. 3,639,590, 2-1-72, Cl. 424-203.
Hendon, James D., 50% to Hendon, John C. Cotton harvesting bag. 3,674,073, 7-4-72, Cl. 150-7.000.
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Hendricks, Robert G.; and Eberhart, Billie J. Frame for utilization with a three-wheel, pedal driven vehicle. 3,701,545, 10-31-72, Cl. 280-282.
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Hendrickson, George Vernon, to Viking Snowmobile, Inc. Drive means for snowmobile devices. 3,701,394, 10-31-72, Cl. 180-5.00r.
Hendrickson, Jack R. Automotive vehicle signal light warning method. 3,676,844, 7-11-72, Cl. 340-71.000.
Hendrickson, Melvin C.: *See—*
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Hendrickson, Melvin C., to Zenith Radio Corporation. Regulated D.C. power supply. 3,673,487, 6-27-72, Cl. 321-18.000.
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Hendrickson, Robert T., to Hendrickson Mfg. Co. Vehicle suspension system. 3,653,683, 4-4-72, Cl. 280-124.
Hendrickson, Roger L. Collapsible trap for crustaceans. 3,678,612, 7-25-72, Cl. 43-66.000.
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Hendry, Allen J.; and Wilson, John T., to Westinghouse Electric Corporation. Circuit breaker including improved overcurrent protective device. 3,634,729, 1-11-72, Cl. 317-36.
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Henegar, Hubert B., to Bendix Corporation, The. Numerical control system using position number generator. 3,676,650, 7-11-72, Cl. 235-151.110.
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Hennig, Arnold; and Hennig, Kurt. Stripper device. 3,691,588, 9-19-72, Cl. 15-256.500.

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Hennig, Fridolin: *See—*
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Hennig, Hans Joachim; and Fischer, Peter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of polyisocyanates which contain a carbodiimide-isocyanate adduct. 3,640,966, 2-8-72, Cl. 260-77.5.

Hennig, Karl-Friedrich; Reinecke, Erich; Merz, Herbert; Werner, Egon; Isernhagen, Fritz; Holthusen, Erwin; and Klatt, Alfred, to Westinghouse Bremsen- und Apparatebau GmbH. Anti-wheel slide apparatus for vehicles. 3,695,734, 10-3-72, Cl. 303-21.00f.

Hennig, Kurt: *See—*
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Hennig, Ralph R.: *See—*
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Hennig, Walter, to Schwarzkopf Development Corporation. Process for production of rotary anodes for Roentgen tubes. 3,649,355, 3-14-72, Cl. 117-217.

Henning, Bodo, to Volkswagenwerk Aktiengesellschaft. Safety steering wheel for power vehicles. 3,675,505, 7-11-72, Cl. 74-552.000.

Henning, Donald S., to Autotrol Corporation. Snap action valve actuator. 3,685,792, 8-22-72, Cl. 251-75.000.

Henning, Donald S., to Autotrol Corporation. Flapper valve assembly. 3,685,794, 8-22-72, Cl. 521-303.000.

Henning, Eberhard, to Hell, Rudolf, Kommanditgesellschaft. Apparatus for producing corrected photographic color rastered reproductions. 3,671,666, 6-20-72, Cl. 178-6.70r.

Henning, Gerardus Johannes: *See—*
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Henning, Hans-Joachim: *See*—
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Henning, Harley B., to Raytheon Company. Balanced optical demodulator. 3,694,656, 9-26-72, Cl. 250-199.000.
Henning, Harley Barry, to Raytheon Company. Optical correction apparatus. 3,688,101, 8-29-72, Cl. 235-181.000.
Henning, Herbert; Alt, Werner; and Reiter, Paul, to Maschinenbau-Aktiengesellschaft Balcke. Spray system for cooling towers. 3,643,931, 2-22-72, Cl. 261-111.
Henning, John L., Jr.; and Robicheaux, Warren J., to Gulf Oil Corporation. Overflow type floating skimmer. 3,702,134, 11-7-72, Cl. 210-242.00.
Henning, Lester A.: *See*—
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Henning, Robert W., to Olin Corporation. Tubular magazine and dispenser therefor. 3,698,115, 10-17-72, Cl. 42-49.00r.
Henning, Walter, to Zimmermann, Jos., Messrs. Sleeve for reeling up and/or wet treating yarn or thread. 3,647,156, 3-7-72, Cl. 242-118.1.
Henning, Wolfgang. Hose clip. 3,648,335, 3-14-72, Cl. 24-279.
Henninges, Karin; and Schulze, Bernd, to Bosch, Robert, G.m.b.H. Apparatus for treating elements of circular outline. 3,643,671, 2-22-72, Cl. 134-118.
Hennings, Klaus: *See*—
Schutze, Hans-Jurgen; and Hennings, Klaus, 3,689,992.
Henningsen, Erik, to Ez Painter Corporation. Paint brush having supplemental reservoir. 3,633,234, 1-11-72, Cl. 15-114.
Henningsen, Erik; and Nielsen, Hans Borge, to Vald Henriksen A/S. Apparatus for liquid treatment of textile materials of string form. 3,696,645, 10-10-72, Cl. 68-177.000.
Henningsen, Etlar August: *See*—
Skromme, Arnold Burton; Lindstrom, Harold Richard; Henningsen, Etlar August; Beldin, Royal Lowell; Sorlie, Donald Thomas; and Eckert, Elmer Richard, 3,667,734.
Henningsen Foods, Inc.: *See*—
Bergquist, Dwight H., 3,648,753.
Hennis, Henry E.; and Priddy, Duane B., to Dow Chemical Company, The. 2,2'-Isopropylidenebis[(6-lower alkoxy-m-phenylene) methylene]bis(2-thiopseudourea) dihydrochloride. 3,636,109, 1-18-72, Cl. 260-564.
Henrard, Armand: *See*—
Forter, Willy; Henrard, Armand; Kehrer, Fritz; Keller, Urs Martin; and Wasem, Hans, 3,671,514.
Henri, Claude Paul: *See*—
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Henri, Richaud; and Roussos, Michel, to Compagnie Pechiney. Electrolyte for self-colored anodization of aluminum and alloys. 3,699,019, 10-17-72, Cl. 204-58.000.
Henrich, Grady B.: *See*—
Barland, Edwin S., Sr.; Cornish, Joseph J., III; and Henrich, Grady B., 3,693,913.
Henrich, Werner. Wire drawing apparatus. 3,664,169, 5-23-72, Cl. 72-278.
Henrich, Werner. Apparatus for winding wire and the like. 3,677,483, 7-18-72, Cl. 242-25.00r.
Henrici, Gisela Henrici; and Martin, Salvador Olive, to Monsanto Company. Process for preparing 1,4-hexadiene. 3,647,902, 3-7-72, Cl. 260-680.
Henrici, Helmut, to Linde Aktiengesellschaft. Method of and system for dissipating the heat generated by electronic control devices in cryogenic installations. 3,656,540, 4-18-72, Cl. 165-1.
Henrick, Clive A.; Edwards, John A.; and Fried, John H., to Syntex Corporation. Production of unsaturated carbocyclic ketones. 3,682,970, 8-8-72, Cl. 260-327.00m.
Henrick, Clive A.; Edwards, John A.; and Fried, John H., to Syntex Corporation. Production of 5,6,7,7a-tetrahydroindan-5-ones. 3,686,215, 8-22-72, Cl. 260-327.00m.
Henrick, Clive A.; and Siddall, John B., to Zoecon Corporation. 1-Halo-3,7,7,11,11-pentamethyl-di-and tri-enes. 3,692,851, 9-19-72, Cl. 260-654.00r.
Henrick, Clive A.; and Siddall, John B., to Zoecon Corporation. Novel composition. 3,697,560, 10-10-72, Cl. 260-399.000.
Henrick, Clive A.; and Siddall, John B., to Zoecon Corporation. Novel sulfur containing di and tri unsaturated aliphatic carbonyl compounds. 3,697,561, 10-10-72, Cl. 260-399.000.
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Henrick, Clive A.; and Siddall, John B. Epithio-thiol-dienoates. 3,706,733, 12-19-72, Cl. 260-327.00e.
Henricot, Paul, to Societe Anonyme Usines Emile Henricot. Damping and control device for a bogie bolster. 3,677,363, 7-18-72, Cl. 105-197.00d.
Henricot, Paul, to Societe Anonyme Usines Emile Hennicot Court-Saint-Etienne (Belgium). Device for suspending side-frames on axle boxes for railway carriages and similar applications. 3,682,104, 8-8-72, Cl. 105-224.100.
Henrie, Thomas A.: *See*—
Scheiner, Bernard J.; Lindstrom, Roald E.; and Henrie, Thomas A., 3,639,222.
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Henrie, Thomas A., to United States of America, Interior. Purification of reactive metals. 3,650,931, 3-21-72, Cl. 204-180.
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Henriksen, Harold C. Raking and mulching means for rotary mowers. 3,662,530, 5-16-72, Cl. 56-295.
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Landeborg, Lars Erik; Henriksson, Sune Torsten; and Muotka, Ragnar Ludvig, 3,653,469.
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Henrion, Michel Andre Robert: *See*—
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Henriot, Maurice. Prefabricated heating, ventilating and air conditioning unit. 3,685,575, 8-22-72, Cl. 165-48.000.
Henry Beakbane (FORTOX) Limited: *See*—
Moseley, Royston L.; and Knowles, Peter M., 3,676,286.
Henry, Carl L., to Regal Manufacturing Company. Yarn traverse mechanism. 3,680,801, 8-1-72, Cl. 242-43.100 .
Henry, Charles Frederick, to McCulloch Corporation. Multiple segment centrifugal clutch. 3,640,365, 2-8-72, Cl. 192-105.
Henry, Charles Frederick, to McCulloch Corporation. Centrifugal clutch. 3,696,901, 10-10-72, Cl. 192-105.0ba.
Henry, Clemence J.: *See*—
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Henry, Colin Alexander: *See*—
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Henry, Cyrus P., Jr.: *See*—
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Henry, Cyrus P., Jr.; and Jeffrey, John R., to Du Pont de Nemours, E. I., and Company. Dual response photosensitive composition containing alkyl benzenesulfonic acid and arene sulfonamide. 3,658,542, 4-25-72, Cl. 96-90.
Henry, Daniel: *See*—
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Henry, David W.: *See*—
Hoff, Dale R.; and Henry, David W., 3,637,702.
Sarett, Lewis H.; Hoff, Dale R.; and Henry, David W., 3,682,949.
Henry, David W.; Hoff, Dale R.; and Patchett, Arthur A., to Merck & Co., Inc. Nitroimidazoloyl derivatives. 3,632,817, 1-4-72, Cl. 260-309.000.
Henry, David W., to United States of America, Army. 2-Phenyl-4-(1-adamantyl)-6-dimethylaminomethylphenol. 3,642,899, 2-15-72, Cl. 260-570.9.
Henry, David W., to Merck & Co., Inc. 1-Substituted-5-nitroimidazole-2-carboximidates carboxylic acids. 3,644,392, 2-22-72, Cl. 260-309.
Henry, David W.; and Hoff, Dale R., to Merck & Co., Inc. Novel nitroimidazole hydrazone derivatives. 3,646,016, 2-29-72, Cl. 260-240.
Henry, Dominique, to Thomson-CSF. Telecommunication repeater traveling wave tube, frequency converting. 3,684,963, 8-15-72, Cl. 325-11.000.
Henry, Donald E.: *See*—
Bartlett, Peter G.; and Henry, Donald E., 3,651,477.
Henry, Donald E., to Gulf & Western Industries, Inc., mesne. Process control system. 3,632,251, 1-4-72, Cl. 425-166.
Henry, Francis B. Live action backboard. 3,692,307, 9-19-72, Cl. 273-29.00a.
Henry, Frederick D. Flow valve. 3,636,981, 1-25-72, Cl. 137-625.46.
Henry, George R.: *See*—
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Henry, James L., to National Cash Register Company, The. Film canister. 3,670,982, 6-20-72, Cl. 242-71.200.
Henry, James L.; and Schimpf, Luther G., to Bell Telephone Laboratories, Incorporated. Subscriber loop range extender. 3,671,676, 6-20-72, Cl. 179-16.00f.

Henry, James William, to Eastman Kodak Company. Environmentally disintegratable plastic compositions comprising copolymers of ethylene and carbon monoxide and a degradation accelerator. 3,676,401, 7-11-72, Cl. 260-63.0cq.

Henry, Jean Claude: *See*—
Billon, Gerard; Henry, Jean Claude; and Vincent, Eugene, 3,700,848.

Henry, Jean Claude; and Billon, Gerard, to Merlin Gerin Societe Anonyme. Double pressure compressed air electric apparatus having an air drying device. 3,701,867, 10-31-72, Cl. 200-148.00e.

Henry, Jean Francois: *See*—
Fishman, Jerry Haskel; Henry, Jean Francois; and Tessore, Susanne, 3,645,860.

Henry, Jean-Claude, to Merlin Gerin, Societe Anonyme. Compressed gas circuit interrupter having a closed-cycle high pressure heating circulation. 3,703,619, 11-21-72, Cl. 200-148.00e.

Henry, Jennie. Method and apparatus for pleating fabric. 3,643,336, 2-22-72, Cl. 33-174.

Henry, Joseph P.: *See*—
Trecker, David J.; Henry, Joseph P.; and Lynn, John W., 3,646,132.

Henry, Luke F., to Allis-Chalmers Manufacturing Corporation. System to control plugging of vehicle direct current motor. 3,694,721, 9-26-72, Cl. 318-341.000.

Henry, Malcolm C.; and Krebs, Adolf W. Methods of repelling rodents using tetrovalent organo-lead compounds. 3,683,090, 8-8-72, Cl. 424-293.000.

Henry, Michael F.: *See*—
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Henry, Michael F., to General Electric Company. Pre-passivation-anodic inhibitor-color method for detecting cracks in metal bodies. 3,664,883, 5-23-72, Cl. 148-6.200.

Henry, Nelson R.; and Middour, Donald R., to Woodman Company, Inc., The. Vibrating clamp product settler. 3,668,815, 6-13-72, Cl. 53-24.

Henry, Nelson R., to Woodman Company, Inc., The. Vibrating clamp product settler with interrupter. 3,684,254, 8-15-72, Cl. 259-72.000.

Henry, Nelson R.; and Middour, Donald R., to Woodman Company, Inc., The. Cam interrupted sealing jaws for product stripping. 3,685,250, 8-22-72, Cl. 53-100.000.

Henry, Nelson R. Automatic filling and weighing apparatus. 3,706,587, 12-19-72, Cl. 177-1.000.

Henry, O. Lee; and Pierce, William C., to Lear Siegler, Inc. Suspension structure for land vehicles. 3,707,298, 12-26-72, Cl. 280-124.00r.

Henry, Ormond Lee: *See*—
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Henry, Patrick M., to Hercules Incorporated. Isocyanate synthesis from amines and carbon monoxide catalyzed by $PdCl_2$. 3,641,092, 2-8-72, Cl. 260-453.

Henry, Ralph E., to Dresser Industries, Inc. Packing for compressors, pumps or the like. 3,685,840, 8-22-72, Cl. 277-28.000.

Henry, Ralph E.; and Kohanski, Robert F., to Dresser Industries, Inc. Packing for compressors, pumps or the like. 3,687,577, 8-29-72, Cl. 417-437.000.

Henry, Ronald A.: *See*—
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Henry Valve Company: *See*—
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Henry, William Nelson: *See*—
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Henry-Baudot, Jacques, to Kollmorgen Corporation. Magnetic motors. 3,686,521, 8-22-72, Cl. 310-96.000.

Henry-Baudot, Jacques, to Kollmorgen Corporation. Series-wave windings for dynamo-electric machines. 3,699,371, 10-17-72, Cl. 310-207.000.

Hensarling, Thomas P.: *See*—
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Hensch, Earl John; and Ogilvie, LeRoy Francis, to General Fireproofing Company, The. Filing device. 3,647,101, 3-7-72, Cl. 220-4.

Henschel, Werner, to Buss A.G. Mixing and kneading device. 3,650,511, 3-21-72, Cl. 259-104.

Henschel-Steinau Co.: *See*—
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Henschen, Homer Ernst: *See*—
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Desso, Thomas Dean; and Henschen, Homer Ernst, 3,669,054.

Henschen, Homer Ernst; and Reyner, Emerson Marshall, II, to AMP Incorporated. Impedance matched printed circuit connectors. 3,651,432, 3-21-72, Cl. 333-33.

Henschen, Homer Ernst, to AMP Incorporated. Support member for electronic packaging. 3,652,899, 3-28-72, Cl. 317-101.

Henschen, Homer Ernst; Huffnagle, Clifton Wesley; and Zell, Dale Richard, to AMP Incorporated. Disengageable electrical connector. 3,663,930, 5-16-72, Cl. 339-192.

Henschen, Homer Ernst, to AMP Incorporated. Termination means for flat cable. 3,697,925, 10-10-72, Cl. 339-17.oof.

Henschen, Homer Ernst; and Zell, Dale Richard, to AMP Incorporated. Flat conductor transmission cable. 3,703,604, 11-21-72, Cl. 174-75.00r.

Hense, Kurt R.: *See*—
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Hensel, Dwight L.: *See*—
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Hensel, William E., Jr.; and Harlowe, William W., Jr., to Arkla Industries, Inc., mesne. Compositions for absorption refrigeration system. 3,643,455, 2-22-72, Cl. 62-112.

Henselman, Richard O.; and Burkard, Herbert G., to Esso Research and Engineering Company. Synergistic dewaxing and composition. 3,639,226, 2-1-72, Cl. 208-37.

Hensen, David, to Machinery and Gears Hansen. Series of gear speed reducers. 3,673,885, 7-4-72, Cl. 74-421.00r.

Hensen, Friedhelm: *See*—
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Hensenne, Joseph F., to Elphiac. Furnace and method of making same. 3,666,250, 5-30-72, Cl. 263-46.000.

Henshaw, Charles Edward, to Pennwalt Corporation. Vacuum drying and stoppering apparatus. 3,668,819, 6-13-72, Cl. 53-102.000.

Henshaw, David Ernest; and Stern, Lionel, to Commonwealth Scientific and Industrial Research Organization. Roller support means for roller twisting apparatus. 3,693,339, 9-26-72, Cl. 57-77.402.

Henshaw, Jo Ann: *See*—
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Henshaw, John M. Variable pattern three-dimensional game board. 3,661,391, 5-9-72, Cl. 273-131.

Henshu Seishi Kabushiki Kaisha: *See*—
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Henslee, Cletus Ray. Movable stake pockets. 3,633,516, 1-11-72, Cl. 105-390.

Hensler, Paul, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Installation in internal combustion engines for preventing the escape of fuel out of the mixture formation system into the atmosphere. 3,678,912, 7-25-72, Cl. 123-136.000.

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Hensley, Albert L., Jr., to Standard Oil Company (Indiana). Hydrocracking catalyst. 3,687,869, 8-29-72, Cl. 252-455.00z.

Hensley, Billy R., to Certain-Teed Products Corporation. Closed mat forming system. 3,642,554, 2-15-72, Cl. 156-377.

Hensley, Billy R. Vertically drain flat structures. 3,687,021, 8-29-72, Cl. 94-9.000.

Hensley, Emmery P.: *See*—
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Hensley, James L., to Carborundum Company, The. Sawing apparatus. 3,634,975, 1-18-72, Cl. 51-35.

Hensley, James R. Safety device for air actuated assemblies. 3,658,391, 4-25-72, Cl. 303-84.

Hensley, John V., 50% to Kaplan, Jack H. Front floor mounted and seat attached vehicle gun rack. 3,635,381, 1-18-72, Cl. 224-1.

Hensley, Justin C., Jr.; and Young, Paul G. Molded plastic solar still. 3,655,517, 4-11-72, Cl. 202-234.

Hensley, William Burton, Jr. Retainer device. 3,689,060, 9-5-72, Cl. 269-217.000.

Henson, Artel R.: *See*—
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Henson, Artel R., to Disco Engineering, Inc. Modular roof system. 3,664,254, 5-23-72, Cl. 98-36.

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Henson, Glen E.: *See*—
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Henson, Glen E.; and Fisher, Milton W., said Fisher assor. to said Henson, Glen E. Exercise apparatus. 3,640,530, 2-8-72, Cl. 272-83.

Henson, James H.; and Henson, Artel R., to Disco Engineering, Inc. Vestibule air curtain door system. 3,687,053, 8-29-72, Cl. 98-33.000.
Henson, John W. Hose coupling method and means. 3,653,692, 4-4-72, Cl. 285-242.
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Henson, Samuel H. Speed mount camper bracket. 3,638,895, 2-1-72, Cl. 248-361.
Henson, Samuel H. Camper hold-down bracket. 3,671,003, 6-20-72, Cl. 248-361.00r.
Henson, William P., to Mobile Drilling Company, Inc. Quick acting drive cap assembly. 3,651,876, 3-28-72, Cl. 175-323.
Henson, William P., to Mobile Drilling Company, Inc. Air drilling method using controlled split stream. 3,664,444, 5-23-72, Cl. 175-323.
Hentrich, Robert Dale; Esbeck, Howard Christian; and Arnold, Loren Glenn, to Deere & Company. Plow colter with yieldable force-applying means and adjustable overload mount for colter carrying arm. 3,700,037, 10-24-72, Cl. 172-265.000.
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Hentschel, John E., to Varian Associates, mesne. Crossed-field noise generator tube employing a high magnetic field intensity. 3,679,993, 7-25-72, Cl. 331-78.000.
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Heob, Norvel J.; and Stoor, Jon D., to MSL Industries, Inc. Fan. 3,644,066, 2-22-72, Cl. 417-354.
Heob, Norvel J., to MSL Industries, Inc. Snap-on retainer for motor rotor shaft. 3,663,849, 5-16-72, Cl. 310-90.
Heogerl, Otto, to National Tel-Tronics Corporation. Solderless anode clip for cathode ray tubes. 3,689,871, 9-5-72, Cl. 339-256.00r.
Hepburn, Douglas I. Pull type frictional resistance exercising device. 3,690,654, 9-12-72, Cl. 272-79.00d.
Hepfer, Ivan C., to Furniture City Manufacturing Corporation. Method of making metal plates plastic articles. 3,640,789, 2-8-72, Cl. 156-92.
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Herger, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Device for making a centering and sealing joint between hot and cold parts of a housing. 3,632,118, 1-4-72, Cl. 277-4.

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Herman, Hans, to Steel Company of Canada, Limited, The. Method and apparatus for wringing excess liquid from steel strip. 3,672,946, 6-27-72, Cl. 117-102.00l.

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Herter, Eberhard, to International Standard Electric Corporation. Loop monitor circuit. 3,673,356, 6-27-72, Cl. 179-175.000.
Herter, Frank. Belt type side pocket waist adjustment for garments. 3,638,242, 2-1-72, Cl. 2-237.
Herter, George L., to Herter's, Inc. Over-shot wad for shotshells. 3,673,965, 7-4-72, Cl. 102-95.000.
Herter, George L.; and Mittelsteadt, Glen L., to Herter's Inc. All plastic polycarbonate shot shell with star crimp. 3,678,858, 7-25-72, Cl. 102-43.00p.
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Hertl, Albert, to Hydraulik G.m.b.H. Drain valve for a hydraulic shock absorber. 3,635,071, 1-18-72, Cl. 72-453.
Hertrich, Klaus; and Peters, Riener, to VEB Polygraph Leipzig, Komibnat fur Polygraphische Maschinen und Ausrustungen. Collecting device especially for transverse folders for web-fed rotary printing presses. 3,679,201, 7-25-72, Cl. 271-51.000.
Hertz, Carl Hellmuth. Liquid jet recorder. 3,673,601, 6-27-72, Cl. 346-75.
Hertz, Carl Hellmuth; and Lindstrom, Kjell O. T. Method of measuring the level of a material in a tank, and an apparatus for practicing this method. 3,695,107, 10-3-72, Cl. 73-290.00r.
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Hertz, Kuri J., to Ford Motor Company. Method of forming an insert. 3,678,552, 7-25-72, Cl. 29-91.100.
Hertzsch, Hans B., to Deutsche Spinnereimaschinenbau Insolstadt Niederlasng der Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Can changing in strand material handling. 3,698,041, 10-17-72, Cl. 19-159.00a.
Herubel, Jean Frederic, to Schlumberger, N., & Cie. Drafting device for textile machines. 3,636,591, 1-25-72, Cl. 19-236.
Herubel, Jean-Frederic, to Schlumberger, N., & Cie. Device with flexible elements for processing textile fibres. 3,694,860, 10-3-72, Cl. 19-236.000.
Hervert, George L., to Universal Oil Products Company. Alkylation of alkoxy-substituted aromatic compounds. 3,662,005, 5-9-72, Cl. 269-612.
Hervert, George L., to Universal Oil Products Company. High octane paraffinic motor fuel production. 3,686,354, 8-22-72, Cl. 260-683.430.
Hervig, Harold C., to Minnesota Mining and Manufacturing Company. Method for cable-blocking with polyurethane foam. 3,639,567, 2-1-72, Cl. 264-45.
Herweh, John E.; and Poshkus, Algirdas C., to Armstrong Cork Company. Poly(p-styrenesulfonylhydrazides). 3,654,242, 4-4-72, Cl. 260-79.3.
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Herz, Jack L.; and Weil, Edward D., to Stauffer Chemical Company. Nitrilotriacetic anhydride as an expoxy resin curing agent. 3,645,972, 2-29-72, Cl. 260-47.
Herz, Luis; Mohr, Reinhard; Mundlos, Eberhard; Mundlos, Eberhard; and Ostermeier, Johann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Basic oxazine dyestuffs. 3,681,347, 8-1-72, Cl. 260-242.000.
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Herzhoff, Peter; Gref, Hans; Behr, Rolf; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Friedsam, Josef; and Browatzki, Kurt, to Agfa-Gevaert Aktiengesellschaft. Apparatus for coating strip-form substrates. 3,638,604, 2-1-72, Cl. 118-50.
Herzhoff, Peter; Schweicher, Wolfgang; Maus, Fritz; Wasser, Willi; Browatzki, Kurt; and Gref, Hans, to Agfa-Gevaert Aktiengesellschaft. Deflecting guide mechanism for bands coated on one side. 3,638,845, 2-1-72, Cl. 226-97.
Herzhoff, Peter; Gref, Hans; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Browatski, Kurt; and Friedsam, Josef, to Agfa-Gevaert Aktiengesellschaft. Process for coating substrates in strip-form with photographic emulsion. 3,645,773, 2-29-72, Cl. 117-34
Herzhoff, Peter; Gref, Hans; and Platz, Stephan, to Agfa-Gevaert Aktiengesellschaft. Apparatus for coating foils or bands on one side with solutions of high viscosity. 3,654,899, 4-11-72, Cl. 118-419.
Herzhoff, Peter; Gref, Hans; Maus, Fritz; Wasser, Willi; Friedsam, Josef; and Schweicher, Wolfgang, to Agfa-Gevaert Aktiengesellschaft. Process for coating strip-form substrates. 3,663,292, 5-16-72, Cl. 117-34.
Herzhoff, Peter; Gref, Hans; Wolfgang, Leverkusen; Frenken, Hans; Assenmacher, Peter; and Westen, Dietmar, to Agfa-Gevaert Aktiengesellschaft. Method of measuring web tension. 3,677,076, 7-18-72, Cl. 73-144.000.
Herzhoff, Peter; Gref, Hans; Maus, Fritz; Wasser, Willi; Browatzki, Kurt; Friedsam, Josef; and Schweicher, Wolfgang, to Agfa-Gevaert Aktiengesellschaft. Process for coating substrates in strip form. 3,682,679, 8-8-72, Cl. 117-34.000.
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Herzhoff, Peter; Gref, Hans; and Platz, Stephan, to Agfa-Gevaert Aktiengesellschaft. Apparatus for coating tapes, sheets and the like with viscous solutions using the air-brush principle. 3,695,218, 10-3-72, Cl. 118-50.000.
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Heseltine, Donald W., to Eastman Kodak Company. Polymethine dyes containing a dilactone ring, intermediates useful in their synthesis and process for preparing said intermediates. 3,637,676, 1-25-72, Cl. 260-240.1.
Heseltine, Donald W.; and Lincoln, Lewis L., to Eastman Kodak Company. Merocyanine dyes. 3,642,786, 2-15-72, Cl. 260-240.4.
Heseltine, Donald W.; and Eldredge, Carl H., to Eastman Kodak Company. Organic photoconductors spectrally sensitized with merocyanine dyes containing a triazolo- or tetrazolo-(1,5-a) pyrimidin-7(6H)-one nucleus. 3,706,555, 12-19-72, Cl. 96-1.600.
Hesen, Joseph A., to Del Mar Engineering Laboratories. Diagnostic and therapeutic exercise treadmill. 3,703,284, 11-21-72, Cl. 272-69.000.
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Hesler, Joseph P.; McFadyen, Robert J.; and Schlereth, Fritz H., to General Electric Company. Active filter circuit having nonlinear properties. 3,654,563, 4-4-72, Cl. 328-167.
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Hess, Hans-Jurgen E., to Pfizer Inc. Certain 6- and/or 7-alkoxy-substituted-2,4-bis (disubstituted amino) quinazolines. 3,635,979, 1-18-72, Cl. 260-256.4.
Hess, Hans-Jurgen E., to Pfizer Inc. Use of 2,4-diaminoquinazolines as hypotensive agents. 3,663,706, 5-16-72, Cl. 424-251.000.
Hess, Hans-Jurgen E., to Pfizer Inc. Trialkoxy quinazolines. 3,669,968, 6-13-72, Cl. 260-256.50r.
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Hess, Howard V.; Wilson, Raymond F.; and Cole, Edward L., to Texaco Inc. Sewage and municipal refuse liquid phase coking process. 3,652,405, 3-28-72, Cl. 210-10.
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Hess, Howard V.; and Guptill, Frank E., Jr., to Texaco Inc. Secondary recovery of oil. 3,685,581, 8-22-72, Cl. 166-272.000.
Hess, Hugo J. A.; Milligan, James W.; and Friend, Harvey L., to Duncan Electric Company, Inc. Watt-hour meters with phasing plate phased after meter completion. 3,638,116, 1-25-72, Cl. 324-138.
Hess, James L., Jr.; and Dow, Harrison E., to Philco-Ford Corporation. Phonograph mounting structure. 3,638,951, 2-1-72, Cl. 274-2.
Hess, James R. Drainage tube coupling. 3,679,242, 7-25-72, Cl. 285-417.000.
Hess, Karl Gunter, to Schneider, Jos., & Co. Optische Werke. Two-way drive for optical systems and the like. 3,673,483, 6-27-72, Cl. 318-618.000.
Hess, Karl-Gunter; Himmelsbach, Paul; and Thomas, Otto, to Schneider, Jos., & Co. Optische Werke. Driving mechanism for components of optical system. 3,656,422, 4-18-72, Cl. 95-45.
Hess, Karl-Gunter; Himmelsbach, Paul; and Thomas, Otto, to Schneider, Jos., & Co., Optische Werke. Driving mechanism for components of optical system. 3,682,072, 8-8-72, Cl. 95-45.000.
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Hess, Robert V. Drags for snowmobile trails. 3,666,020, 5-30-72, Cl. 172-612.000.
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Hester, Jackson B., Jr., to Upjohn Company, The. Tetrahydropyrrolobenzodiazepines. 3,642,821, 2-15-72, Cl. 260-326.9.
Hester, Jackson B., Jr., to Upjohn Company, The. Hexahydropyrrolobenzodiazepines. 3,642,822, 2-15-72, Cl. 260-326.9.
Hester, Jackson B., Jr., to Upjohn Company, The. 2,4-Dihydro-6-phenyl-1H-s-triazolo[4,3-a] [1,4]benzodiazepin-1-ones. 3,646,055, 2-29-72, Cl. 260-308.
Hester, Jackson B., Jr., to Upjohn Company, The. Tetra- and hexahydro-phenylpyrrolo benzodiazepines and intermediates. 3,651,083, 3-21-72, Cl. 260-326.5.
Hester, Jackson, B., Jr., to Upjohn Company, The. 6-Alkyl-1,2,3,4,5,6-hexahydroazepino [4,5-b]indoles. 3,652,588, 3-28-72, Cl. 260-326.3.
Hester, Jackson B., Jr., to Upjohn Company, The. Azepinoindolones. 3,655,647, 4-11-72, Cl. 260-239.3.
Hester, Jackson B., Jr., to Upjohn Company, The. Process for preparing 1,3-dihydro-5-phenyl-2H-1,4-benzodiazepine-2-thiones. 3,674,777, 7-4-72, Cl. 260-239.30d.
Hester, Jackson B., Jr., to Upjohn Company, The. Anorexigenic compositions comprising 6-alkyl-1,2,3, 4,5,6-hexahydroazepino 4,5-indoles as active ingredient and process of treatment. 3,676,558, 7-11-72, Cl. 424-274.000.
Hester, Jackson B., Jr. 7-Benzoyl indolines. 3,679,701, 7-25-72, Cl. 260-326.110.
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Hester, Jackson B., Jr., to Upjohn Company, The. 3-(5-Phenyl-3H-1,4-benzodiazepin-2-yl) carbazic acid and alkyl esters in therapeutic compositions and method. 3,694,552, 9-26-72, Cl. 424-244.000.
Hester, Jackson B., Jr., to Upjohn Company, The. 1-Carbolower alkoxy-6-phenyl-4h-s-triazols 1,4 benzodiazepine compounds. 3,701,782, 10-31-72, Cl. 260-308.00r.
Hester, Jackson Boling, Jr., to Upjohn Company, The. 2-Substituted amino-5-phenyl-3H-1,4-benzodiazepines. 3,649,617, 3-14-72, Cl. 260-239.
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Hickmann, Horst R., to AMF Incorporated, mesne. Ski boot construction. 3,645,017, 2-29-72, Cl. 36-2.5.
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Hickox, Thomas A.; May, Gordon H.; and Shepard, Joseph E., to International Business Machines Corporation. Analyzing, orienting and printing means in ticket handling mechanism. 3,641,931, 2-15-72, Cl. 101-93.
Hicks, Alan A., to Kohner Bros., Inc. Puzzle with multiple passageways having a common intersection and objects shiftable among said compartments. 3,677,547, 7-18-72, Cl. 273-109.000.
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Hicks, De Voe H. Bowling ball control device. 3,672,673, 6-27-72, Cl. 273-54.00b.
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Hicks, Glen Elton, to Rusco Industries, Inc. False muntin assembly. 3,678,651, 725-72, Cl. 52-311.000.
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Hicks, Harris Vernon; and Nolan, Roger William, to Lucas, Joseph, (Industries) Limited. Road vehicle lighting system in which same shutter obscures photocell when system is operative and when it is not energized. 3,663,819, 5-16-72, Cl. 250-201.000.
Hicks, Harris Vernon; and Jones, Kenneth James, to Lucas, Joseph, (Industries) Limited. Lighting systems for road vehicles. 3,673,421, 6-27-72, Cl. 250-229.000.
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Hicks, James C.: *See—*
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Hicks, Raymond John, to Vickers Limited. Gear trains. 3,633,441, 1-11-72, Cl. 74-801.
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Hideg, Laszlo, to Ford Motor Company. Single fuel system carburetor having improved metering stability. 3,679,186, 7-25-72, Cl. 261-50.00r.
Hidenobu, Kondo, to Nippon Kogaku K.K. Safety wind-up device for camera. 3,633,480, 1-11-72, Cl. 95-31.
Hideo, Hashimoto, to Kabushiki Kaisha Ricoh. Form feeding device with memory means. 3,687,540, 8-29-72, Cl. 355-14.000.
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Higa, James Z. Tool for making flexible crimped tubes from pliable sheet material. 3,685,400, 8-22-72, Cl. 93-1.500.
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Higashi, Louis M.; and McEvers, Herbert R., to Karex, Inc., mesne. Magnetic coating formulation of recording tape. 3,650,828, 3-21-72, Cl. 117-235.
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Higashi, Seiya; and Kobayashi, Kenro, to Kokusai Denki Kabushiki Kaisha. Crystal pulling apparatus having means for maintaining liquid-solid crystal interface at a constant temperature. 3,700,412, 10-24-72, Cl. 23-273.0sp.
Higashi, Tadao; Iwatat, Yoshinori; and Ohta, Masae, to Oki Electric Industry Company, Limited. Frequency modulating system for microwave solid-state oscillator. 3,638,143, 1-25-72, Cl. 332-30.
Higashida, Yutaka; and Imanishi, Kaoru, to Matsushita Electric Industrial Co., Ltd. Single take-up reel, automatic threading, magnetic tape duplicating apparatus. 3,703,612, 11-21-72, Cl. 179-100.20e.
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Higginbotham, William W., to Monroe Auto Equipment Co. Vehicle leveling system. 3,649,044, 3-14-72, Cl. 280-124.
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Higgins, George C.; Kurtz, Clark N.; and Eisen, Fred C. Color recording on panchromatic sensitized material by additive modulation of pre-exposed gratings. 3,663,221, 5-16-72, Cl. 96-22.000.
Higgins, Horatio Leslie, to Westinghouse Brake and Signal Company Limited. Spring-force applying means. 3,704,653, 12-5-72, Cl. 92-29.000.
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Higgins, John B.; and Gatti, Arno, to General Electric Company. Formation of high-strength high-modulus coated filaments. 3,668,006, 6-6-72, Cl. 117-231.000.
Higgins, John J.; Berejka, Anthony J.; and Spenadel, Lawrence, to Esso Research and Engineering Company. Bonding glass with thermoplastic sealing compositions. 3,654,005, 4-4-72, Cl. 156-108.
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Higgs, Stuart P. Hydromassage device. 3,680,547, 8-1-72, Cl. 128-66.000.
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High, Carl F. Pressure carburetion system for manifold distribution. 3,635,201, 1-18-72, Cl. 123-130.
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Hill, David C., to General Motors Corporation. Exhaust gas recirculation. 3,641,989, 2-15-72, Cl. 123-119.
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Hill, Friedrich W., to AGA Aktiebolag. Burner unit. 3,680,999, 8-1-72, Cl. 431-21.000.
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Hill, James T.; and Garabedian, Michael E., to Du Pont de Nemours, E. I., and Company. Process for preparing fluorine-containing polymers. 3,660,315, 5-2-72, Cl. 260-2.
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Hill, Robert W., to Gulf Research & Development Company. Unsaturated alkyl sulfamates, method of preparing such sulfamates, and their use as slip agents in polyethylene. 3,661,830, 5-9-72, Cl. 260-30.8.
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Hill, Thomas, to BP Chemicals, Limited. Production of silica gels. 3,647,709, 3-7-72, Cl. 252-317.
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Hill, Vernon L.; Nichols, Harry R.; and Hess, Alan L., to IIT Research Institute. Nitrided hafnium-tantalum alloys and method of making the same. 3,679,494, 7-25-72, Cl. 148-20.300.

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Hill, William Frank, to Lucas, Joseph, (Industries) Limited. Liquid level detector. 3,689,883, 9-5-72, Cl. 340-59.000.

Hill, William G.; and Stevens, Kenneth, to Foster Wheeler Corporation. Method of welding tubes to tube plates. 3,643,059, 2-15-72, Cl. 219-125.

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Hill, William J., to International Development Corporation. Centrifugal casting machine. 3,648,762, 3-14-72, Cl. 164-289.

Hill, William J., to Morgan Construction Company. Bar separator. 3,651,921, 3-28-72, Cl. 198-34.

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Hiller, Gary L., to Eastman Kodak Company. Photographic materials. 3,649,289, 3-14-72, Cl. 96-123.

Hiller, Gary L.; Ulbing, Cynthia Geer; and Starr, John E., to Eastman Kodak Company. Photographic supersensitized silver halide emulsions. 3,695,888, 10-3-72, Cl. 96-123.000.

Hiller, Gary L., to Eastman Kodak Company. Supersensitized photographic emulsions. 3,706,567, 12-19-72, Cl. 96-126.000.

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Hiller, Heinrich; and Pfitzner, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Monoazo dyes containing an indole. 3,657,217, 4-18-72, Cl. 260-165.

Hiller, Heinrich; and Dimroth, Peter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Nickel complex of the dioxime of 2-acetoacetyl amino-6-ethoxybenzothihzole. 3,682,923, 8-8-72, Cl. 260-299.000.

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Hilliker, Donald E.; and Webb, William M., to General Electric Company. External ice service. 3,643,464, 2-22-72, Cl. 62-344.

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Hillinger, Bruno, to Waagner-Biro Aktiengesellschaft. Structure for transporting and storing flowable materials. 3,638,699, 2-1-72, Cl. 150-.5.

Hillingrathner, Franz, to International Harvester Company. Balancer. 3,667,317, 6-6-72, Cl. 74-604.000.

Hillis, Donald A. Key holder. 3,696,650, 10-10-72, Cl. 70-457.000.

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Hillmer, Duane. Stamp album. 3,685,187, 8-22-72, Cl. 40-159.000.

Hills, Brian. Induction motors. 3,675,060, 7-4-72, Cl. 310-172.000.

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Hilson, Eugene R., to Maule Industries, Inc. Insert for embedded fittings. 3,685,783, 8-22-72, Cl. 249-94.000.

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Hilton, Ralph W.; and Moudry, Gilbert A. Method for the manufacture of an aluminum cartridge case. 3,706,118, 12-19-72, Cl. 29-1.300.
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Hinckley, John N., to Beloit College. Engine. 3,684,413, 8-15-72, Cl. 418-141.000.
Hinckley, Paul D.; Klender, Gerald J.; and Lambiott, Jerry F., to Uniroyal, Inc. Flame resistant composition of ABS, polyarylene polysulfone and bromo-aryl compound. 3,686,362, 8-22-72, Cl. 260-876.00r.
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Hinkley, David F.; and Ellsworth, Robert L., to Merck & Co., Inc. Racemization of an alpha-methyl DOPA derivative. 3,676,482, 7-11-72, Cl. 260-471.00a.
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Hinkley, David F., to Merck & Co., Inc. 2-Carboxy or 2-carboxylower alkyl derivatives of 5-fluoro-1-(p-methylsulfinyl-benzylidene)-indenyl -3-acetic acid. 3,700,730, 10-24-72, Cl. 260-515.00a.
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Hinson, James L., to Three Way, Inc. Apparatus for separating pelletized lead or the like from granular compositions such as soil. 3,696,870, 10-10-72, Cl. 171-17.000.
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Hiroshi, Ueki, to Kurita Industrial Co., Ltd. Cleaning composition. 3,686,123, 8-22-72, Cl. 252-87.000.

Hiroshima Kago Kabushiki Kaisha: *See—*
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Hirota, Hatsuo, to Toyo Plywood Co., Ltd. Decorative overlay paper covered plywood and process of manufacturing the same. 3,654,044, 4-4-72, Cl. 161-2.

Hirota, Itaru. Friction reduced conveying apparatus of helical chain conveyor type. 3,706,371, 12-19-72, Cl. 198-181.000.

Hirota, Kashichi, to Kyowa Denki Kagaku Kaisha. Pallet. 3,678,868, 7-25-72, Cl. 108-51.000.

Hirota, Nobuyoshi; and Onoshima, Yoshio, to Mitsubishi Jukogyo Kabushiki Kaisha. Formaldehyde-gelatin composition for gas pressure testing which forms a long lasting foam. 3,664,965, 5-23-72, Cl. 252-408.

Hirota, Sadaichi. Method of making confectioned mushrooms. 3,658,554, 4-25-72, Cl. 99-102.

Hirota, Tatsuo. Eye-liner device. 3,682,559, 8-8-72, Cl. 401-278.000.

Hirota, Tatsuo, to Pentel Co., Ltd. Push-button type writing instrument with a cap. 3,690,778, 9-12-72, Cl. 401-66.000.

Hirotani, Tadashi: *See—*
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Hirozawa, Koichiro: *See—*
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Hirozawa, Koichiro, to Aisin Seiki Kabushiki Kaisha. Speed responsive transmission. 3,662,621, 5-16-72, Cl. 74-731.

Hirozawa, Koichiro, to Aisin Seiki Kabushiki Kaisha. Control mechanism for automatic speed change assembly. 3,675,512, 7-11-72, Cl. 74-869.

Hirozawa, Koichiro; and Asano, Tadao, to Aisin Seiki Kabushiki Kaisha. Speed change mechanism. 3,677,104, 7-18-72, Cl. 74-336.000.

Hirozawa, Koichiro; and Takahashi, Shigeo, to Aisin Seiki Kabushiki Kaisha. Mechano-hydraulically operated governor. 3,677,277, 7-18-72, Cl. 137-54.000.

Hirozawa, Koichiro, to Aisin Seiki Kabushiki Kaisha. Speed controller for a diesel engine. 3,693,605, 9-26-72, Cl. 123-140.0mp.

Hirozawa, Koichiro; and Takahashi, Shigeo, to Aisin Seiki Kabushiki Kaisha. Speed changer. 3,704,768, 12-5-72, Cl. 192-3.570.

Hirs, Gene, to Hydromation Engineering Company. Method of and apparatus for filtering. 3,669,882, 6-13-72, Cl. 210-33.000.

Hirs, Gene; and Wykoff, Richard H., to Hydromation Filter Company. Method of filtering a mixture of liquid and fibrous solid contaminants. 3,695,433, 10-3-72, Cl. 210-67.000.

Hirs, Gilles Gerardus, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Bearings and seals with a grooved bearing surface. 3,655,248, 4-11-72, Cl. 308-9.

Hirs, Gilles Gerardus, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid Handel en Verkeer. Aerostatic or hydrostatic bearing. 3,656,819, 4-18-72, Cl. 308-9.

Hirs, Joseph: *See—*

Graser, Toni; and Hirs, Joseph, 3,675,635.
Hirsbrunner, Hans G.: *See—*
Santala, Teuvo J.; and Hirsbrunner, Hans G., 3,701,654.
Hirsbrunner, Hans G.; and McBride, Lyle E., Jr., to Texas Instruments, Incorporated. Composite thermistor temperature sensor having step-function response. 3,644,864, 2-22-72, Cl. 338-25.
Hirsch, Allen F., to Ortho Pharmaceutical Corporation. 0-(Nitroaryl) oximes of 3-keto steroids. 3,686,237, 8-22-72, Cl. 260-397.300.
Hirsch, Charles J., to RCA Corporation. Time delay device. 3,688,131, 8-29-72, Cl. 307-293.000.
Hirsch, Christian Worm; and Johnsen, John Normann, to International Standard Electric Corporation. Power cable. 3,666,879, 5-30-72, Cl. 174-128.
Hirsch, Clarence A.: *See—*
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Hirsch, Donald, to Bell Telephone Laboratories, Incorporated. Adaptive equalizer for digital data systems. 3,648,171, 3-7-72, Cl. 325-42.
Hirsch, Hans, & Sohne, Firma: *See—*
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Hirsch, Hermann, to Hirsch, Hans, & Sohne, Firma. Apparatus for offering goods for sale and for dispensing goods. 3,650,585, 3-21-72, Cl. 312-71.
Hirsch, Irving C. Collapsible stool. 3,663,058, 5-16-72, Cl. 297-439.
Hirsch, Karl; Riedl, Wilhelm; Winkler, Siegmund; and Pirker, Hans, to Hirsch Plastikwaren Karl Hirsch OHG, Firma. Latern slide cover. 3,686,784, 8-29-72, Cl. 40-159.000.
Hirsch, Nathan M. Apparatus for washing blood cells. 3,677,710, 7-18-72, Cl. 23-258.500.
Hirsch, Peter, to Bell Telephone Laboratories, Incorporated. Arrays with nulls steered independently of main beam. 3,670,335, 6-13-72, Cl. 343-100.0sa.
Hirsch, Peter M.; Jordan, James A., Jr.; and Lesem, Louis B., to International Business Machines Corporation. Computer generated filtering method. 3,642,350, 2-15-72, Cl. 350-162.
Hirsch Plastikwaren Karl Hirsch OHG, Firma: *See—*
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Hirsch, Robert L., to International Telephone and Telegraph Corporation. Electrostatic field apparatus for reducing leakage of plasma from magnetic type fusion reactors. 3,655,508, 4-11-72, Cl. 176-5.
Hirsch, Robert L., to International Telephone and Telegraph Corporation. Electrostatic containment in fusion reactors. 3,664,920, 5-23-72, Cl. 176-1.
Hirsch, Roger B. Gauging system for press brakes. 3,704,611, 12-5-72, Cl. 72-36.000.
Hirsch, Roger D., to Bangor Punta Operations, Inc. Snowmobile having articulated bogey wheel suspension means. 3,684,043, 8-15-72, Cl. 180-5.00r.
Hirsch, Stanley; and Schneider, Irving, to Structural Industries, Inc. Frame construction. 3,698,114, 10-17-72, Cl. 40-155.000.
Hirsch, Winfred S., to Weck, Edward, & Company, Inc. Bandage having an integral reservoir. 3,658,065, 4-25-72, Cl. 128-296.
Hirschberg, Joseph G., to Research Corporation. Image recording method and device. 3,644,014, 2-22-72, Cl. 350-3.5.
Hirschberg, Kenneth A., to United States of America, Army, mesne. Seismic system for real-time reporting. 3,699,509, 10-17-72, Cl. 340-15.000.
Hirschburger, Eugen, KG: *See—*
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Hirschburger, Kurt, to Hirschburger, Eugen, KG. Device for treating strand-like material. 3,683,650, 8-15-72, Cl. 68-5.00d.
Hirschel, Joel. Mass spectrometer detector arrays. 3,636,345, 1-18-72, Cl. 250-41.9.
Hirschfeld, Tomas. Hydrocarbon detector. 3,695,847, 10-3-72, Cl. 23-232.00r.
Hirschfeld, Tomas; and Matsu, Noboru, to Block Engineering, Inc. Hydrocarbon detector system. 3,697,226, 10-10-72, Cl. 23-254.00r.
Hirschhorn, Leo. Porcelain bonding dental gold alloy. 3,679,402, 7-25-72, Cl. 75-165.000.
Hirschhorn, Sidney H. Rope clamps. 3,698,042, 10-17-72, Cl. 24-19.000.
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Hirschmann, Jack B., Jr., to Bonton, H. L., Company, Inc. Manually formable spectacle temple. 3,649,106, 3-14-72, Cl. 351-117.
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Hirshfeld, Julian J.; and Reuben, Bertie J., to Monsanto Company. Zirconium anti-soil treatment of synthetic fibers and resultant article. 3,671,292, 6-20-72, Cl. 117-62.000.
Hirshfeld, Julian J.; Reuben, Bertie J.; and Hacklander, Egon H., to Monsanto Company. Glue and dye in nylon-jute carpet dyeing. 3,682,582, 8-8-72, Cl. 8-18.000.
Hirshon, Jack M.; and Warner, Philip D., to TRW Inc. Semiconductor device and method of making the same. 3,678,346, 7-18-72, Cl. 317-234.00r.
Hirst, Archie John, to Dunlop Company Limited, The. Vehicle suspensions. 3,680,888, 8-1-72, Cl. 280-124.00r.
Hirst, Charles M., Jr.; and Lipshield, Eugene C., to Orscheln Brake Lever Mfg. Company. Parking brake operating means. 3,693,472, 9-26-72, Cl. 74-518.000.
Hirst, David Graham Spencer, to Procter & Gamble Company, The. Lime soap dispersants and compositions containing them. 3,660,470, 5-2-72, Cl. 260-501.12.
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Hirst, Sidney. Transformer with variable secondary reactance. 3,686,464, 8-22-72, Cl. 219-131.000.
Hirt, Andrew J., to Hanger Supply Company. Pipe hanger. 3,652,045, 3-28-72, Cl. 248-62.
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Hirt, Thomas J.; Kissinger, Richard D.; Kendall, John P.; and Frantzen, Karl H., to Northern Natural Gas Company. Apparatus for heating gases to high temperatures. 3,707,644, 12-26-72, Cl. 313-231.000.
Hirt, Wilhelm; Lehnerdt, Hagen; Weckesser, Ernst; Weinhold, Gottfried; and Wrigge, Friedrich Wilhelm, to Vereinigte Aluminium-Werke Aktiengesellschaft. Apparatus for improving the heat economy of an electrolytic cell for the production of aluminum. 3,673,04, 6-27-72, Cl. 204-243.00r.
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Hirtreiter, Walter J. Method and apparatus for balancing a body about an axis. 3,690,152, 9-12-72, Cl. 73-66.000.
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Hiruma, Kenji, to Kabushiki Kaisha Ricoh. Shutter for use in a camera. 3,633,485, 1-11-72, Cl. 95-60.
Hiruma, Kenji, to Kabushiki Kaisha Ricoh. Eye-level eyepiece shielding device for eye-level and waist-level viewfinder. 3,643,573, 2-22-72, Cl. 95-42.
Hiruma, Kenji, to Ricoh Co., Ltd. View-finder for single lens reflex cameras. 3,651,735, 3-28-72, Cl. 88-1.5.
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Hisada, Takeo; Nakajima, Fumio; Nishi, Takeshi; and Sugiyama, Kunro, to Tokico Ltd. Liquid level detecting apparatus. 3,680,579, 8-1-72, Cl. 137-81.500.
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Hiscox, Harold C.; and Arnold, Larry R., to Westinghouse Electric Corporation. Precision approach and landing system. 3,634,862, 1-11-72, Cl. 343-108.
Hiscox, Leonard R., to Girling Limited. Braking systems for vehicles. 3,664,712, 5-23-72, Cl. 303-21.
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Hishida, Yukio; Nakai, Toshio; and Kuzuya, Susumu, to Brother Kogyo Kabushiki Kaisha. Repeat typing mechanism for power operated typewriters. 3,706,366, 12-19-72, Cl. 197-17.000.
Hiskes, Ronald, to Hewlett-Packard Company. Method and flux for growing single crystals of garnet or orthoferrites. 3,697,320, 10-10-72, Cl. 117-234.000.
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Hoad, John G., to Hoad, John G., & Associates. Process for disposal of combustible waste. 3,670,669, 6-20-72, Cl. 110-8.

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Hoag, Don H., to Clarkson Industries, Inc. Sludge tank with self-cleaning screen and screen for use therein. 3,675,778, 7-11-72, Cl. 210-237.000.

Hoag, Yates M., to General Electric Company. Electronic chime alarm. 3,653,040, 3-28-72, Cl. 340-392.

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Hoard, Charles T., to MB Associates, mesne. Sheet igniter. 3,702,090, 11-7-72, Cl. 89-1.813.

Hoard, Norman F.; and Edick, Lee, to Entron Inc. Moving object microwave detection system. 3,691,558, 9-12-72, Cl. 343-7.700.

Hoare, John Edward, to Lucas, Joseph, (Industries) Limited. Electro-magnetic horns. 3,653,039, 3-28-72, Cl. 340-388.

Hoare, Robert C., to Allied Chemical Corporation. Water soluble lithium-N-benzoyl-2-[[1-(dichlorophenyl)-3-methyl-5-oxo-2-pyrazolin-4-yl] azo] sulfinates. 3,655,640, 4-11-72, Cl. 260-162.

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Hobbs, Edwin L. Tortuous grip rope broke. 3,695,397, 10-3-72, Cl. 188-65.400.

Hobbs, James, to Butler National Corporation. Adaptive filter using heading correction. 3,643,074, 2-15-72, Cl. 235-150.27.

Hobbs, James; and Carocari, John B., to Butler National Corporation. Vertical control system. 3,644,722, 2-22-72, Cl. 235-150.23.

Hobbs, James C., II. Method and apparatus for injecting fluid into the vascular system. 3,631,847, 1-4-72, Cl. 128-2.

Hobbs, James C., II. Expendable hemostat. 3,654,930, 4-11-72, Cl. 128-325.

Hobbs, James C., II. Method and apparatus for measuring and proportioning fluids. 3,655,094, 4-11-72, Cl. 222-1.

Hobbs, James W., to Phillips Petroleum Company. Control system for hydrogenation reactions. 3,656,911, 4-18-72, Cl. 23-253.

Hobbs, James W.; and Long, George W., to Phillips Petroleum Company. Control of fractionation column reboiler. 3,676,304, 7-11-72, Cl. 202-160.000.

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Hobbs, Marcus E.; and Bonnet, Carroll W., to Bethlehem Steel Corporation. Apparatus for improved payout of wire strand from strand packages. 3,667,699, 6-6-72, Cl. 242-129.000.

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Hobbs, Oliver K. Conveyor. 3,693,835, 9-26-72, Cl. 222-55.000.
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Hobel, Peter, to Siemens Aktiengesellschaft. Automatically operating apparatus for measuring blood pressure. 3,633,568, 1-11-72, Cl. 128-2.05.
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Hoblit, Louis D.; and Strange, Carl P., to Dow Chemical Company, The. Blends of ethylene polymers having improved stress crack resistance. 3,703,565, 11-21-72, Cl. 260-876.00b.
Hobo, Nobuhito; Natsume, Yoshimi; and Kaga, Sumihiro, to Nippondenso Kabushiki Kaisha and Toyota Jidosha Kogyo Kabushiki Kaisha. Fuel control system for internal combustion engines. 3,685,526, 8-22-72, Cl. 123-32.0ea.
Hobo, Nobuhito, to Nippondenso Kabushiki Kaisha. Dividing circuit using monostable multivibrator. 3,705,991, 12-12-72, Cl. 307-273.000.
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Hobson, Willis S.; Gregory, John T.; and Klienhaus, Clarence H., to Seymour Manufacturing Co. Process of reclaiming a liquid organic solvent from a foam contaminant. 3,697,388, 10-10-72, Cl. 203-96.000.
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Hodge, Edward B., to Commercial Solvents Corporation. Zearalenone reduction. 3,704,248, 11-28-72, Cl. 260-343.20f.
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Hoffman, George M., to White Motor Corporation. Control system for starting up and synchronizing a plurality of generators and method of operation. 3,646,356, 2-29-72, Cl. 307-87.
Hoffman, George W., to N L Industries, Inc. Production of polysilicic acid by ion exchange. 3,649,556, 3-14-72, Cl. 252-313.
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Hoffman, Hellmut; Hammann, Ingeborg; and Behrenz, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Thiazolo-(thiono) phosphoric (phosphonic) acid esters. 3,687,963, 8-29-72, Cl. 260-302.00e.
Hoffman, Herbert J., to United States of America, Air Force. Mixture ratio control. 3,633,434, 1-11-72, Cl. 74-470.
Hoffman, Herbert N., to General Electric Company. Gear type flexible coupling. 3,651,662, 3-28-72, Cl. 64-9.
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Hoffman, J. Gordon. Self-locating electrical connector for large planar surfaces. 3,649,953, 3-14-72, Cl. 339-64.
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Hoffman, John A. Electrically converted fire tube boiler and method. 3,691,344, 9-12-72, Cl. 219-321.000.
Hoffman, John P.; and Booth, Robert C., to Bethlehem Steel Corporation. One-probe method and apparatus for detecting correlating, and classifying defects in test members. 3,673,493, 6-27-72, Cl. 324-37.000.
Hoffman, John T. Dispenser for reel of filament material. 3,696,697, 10-10-72, Cl. 83-649.000.
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Hoffman, Joseph K.; and Russell, James P., to Air Products and Chemicals, Inc., mesne. Preparation of telomers of vinyl esters. 3,642,876, 2-15-72, Cl. 260-491.
Hoffman, Joseph K.; and Russell, James P., to Air Products and Chemicals, Inc., mesne. Preparation of vinyl ester-toluene telomers. 3,647,862, 3-7-72, Cl. 260-491.
Hoffman, Joseph Willard, to AMP Incorporated. Valve structure with a U-shaped spring retainer. 3,662,761, 5-16-72, Cl. 137-543.19.
Hoffman, Joseph Willard; and Demler, Henry William, Sr., to AMP Incorporated. Crimping tool and die assembly. 3,706,219, 12-19-72, Cl. 72-402.000.
Hoffman, Lawrence C., to Aerojet-General Corporation. Closed cycle power system. 3,658,043, 4-25-72, Cl. 123-119.
Hoffman, Lawrence C.; Rudnicki, Mark I.; and Williams, Howard W., to Aerojet-General Corporation. Closed cycle engine system. 3,702,110, 11-7-72, Cl. 123-119.00a.
Hoffman, Leonard M.; and Kimball, John B., to United States of America, Navy, mesne. System for deployment of a spherical body from the nose of an accelerating ballistic vehicle. 3,672,605, 6-27-72, Cl. 244-1.0ss.
Hoffman, Lewis C.; and Nakayama, Takashi, to Du Pont de Nemours, E. I., and Company. High dielectric constant ceramic bodies and compositions for producing same comprising iron oxide. 3,666,505, 5-30-72, Cl. 106-39.

Hoffman, Lewis Charles, to Du Pont de Nemours, E. I., and Company. Glass-ceramic precursors. 3,656,984, 4-18-72, Cl. 106-53.

Hoffman, Lewis Charles, to Du Pont de Nemours, E. I., and Company. Bismuthate glass-ceramic precursor compositions. 3,684,536, 8-15-72, Cl. 106-53.000.

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Hoffman, Mark; and Lindquist, Claude Alan, Jr., to Pfizer Inc. Light diffusion device. 3,655,263, 4-11-72, Cl. 350-126.

Hoffman, Mary V., to General Electric Company. Uranyl-activated strontium zinc pyrophosphate phosphors. 3,666,674, 5-30-72, Cl. 252-301.1.

Hoffman, Mary V., to General Electric Company. Phosphor comprising lanthanum cerium thorium phosphate. 3,692,689, 9-19-72, Cl. 252-301.10l.

Hoffman, Mary V., to General Electric Company. Europium-activated barium and strontium, calcium aluminum fluoride phosphors. 3,702,828, 11-14-72, Cl. 252-301.40r.

Hoffman, Maurice F.; and Hodge, Abram L., to Union Carbide Corporation. Gas carburization and carbonitriding. 3,663,315, 5-16-72, Cl. 148-16.5.

Hoffman, Norman Edwin, to AMP Incorporated. Bundle tie device. 3,653,099, 4-4-72, Cl. 24-16.

Hoffman, Otto L., to Gulf Research & Development Company. Herbicide resistant corn seed method. 3,702,759, 11-14-72, Cl. 71-77.000.

Hoffman, Paul; and Hodge, John D., Jr. Fisherman's soap. 3,650,968, 3-21-72, Cl. 252-142.000.

Hoffman, Paul. Laminated paper with reinforcing scrim. 3,671,372, 6-20-72, Cl. 161-58.000.

Hoffman, Paul. High voltage capacitor. 3,689,811, 9-5-72, Cl. 317-259.000.

Hoffman, Paul; and Craig, Herbert W., to Hudson Pulp & Paper Corporation. Remoistening adhesive compositions. 3,696,065, 10-3-72, Cl. 260-17.4st.

Hoffman, Paul R., to Brunswick Corporation. Split detecting and scoring system. 3,649,014, 3-14-72, Cl. 273-54.

Hoffman, Paul R., to Burroughs Corporation. Tape control mechanism. 3,662,970, 5-16-72, Cl. 242-180.

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Hoffman, Robert R., to Abcor Water Management Company, Inc., mesne. Membrane system which includes a tube sheet for securing supported membrane tubes therein. 3,643,805, 2-22-72, Cl. 210-321.

Hoffman, Sanford G.; Jackson, Earl V.; Starkweather, Gary K.; and Zucker, Edwin, to Xerox Corporation. Multiple exposure imaging apparatus. 3,703,335, 11-21-72, Cl. 355-51.000.

Hoffman, Stephen J.; and Schonegg, Louis E., to Regency Electronics, Inc. Radio receiver. 3,665,318, 5-23-72, Cl. 325-470.

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Hoffman, William D.; and Larson, Allen E., to Atlantic Richfield Company. Foundry mold process and pattern composition. 3,655,414, 4-11-72, Cl. 106-38.8.

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Hoffman, William K., to International Business Machines Corporation. Storage circuit for shift register. 3,648,065, 3-7-72, Cl. 307-221.

Hoffman, William K., to International Business Machines Corporation. Field effect transistor circuit. 3,663,835, 5-16-72, Cl. 307-246.000.

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Hoffmann, Charles; and Dordilly, Andree, born Faure, to Societe Anonyme dite: Hexachimie. 5-[2-(Phenylamino)-3-pyridyl]tetrazoles substituted in the phenyl nucleus. 3,637,719, 1-25-72, Cl. 260-296.

Hoffmann, Conrad E., to Du Pont de Nemours, E. I., and Company. Derivatives of 2-camphanamines as anti-influenza agents. 3,659,015, 4-25-72, Cl. 424-325.

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Hoffmann, Heinrich, to Daimler-Benz Aktiengesellschaft. Piston. 3,656,770, 4-18-72, Cl. 277-189.5.

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Hoffmann, Hellmut; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. Alkyl esters of thiazolotriazolyl phosphoric and phosphonic acids and amides, and thiono counterparts. 3,682,943, 8-8-72, Cl. 260-306.700.

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Hoffmann, Hellmut; and Hammann, Ingeborg, to Bayer Aktiengesellschaft. S-alkylmercapto methylthiophosphoric or phosphoric acid esters. 3,706,820, 12-19-72, Cl. 260-940.000.

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Holliday, Jack D., to Eltee Pulsitron. On-off pulse time control. 3,697,879, 10-10-72, Cl. 328-61.000.
Holliday, Robert G., to Xerox Corporation. Fiche storage and cleaning apparatus. 3,633,761, 1-11-72, Cl. 211-131.
Holliday, Robert G., to Xerox Corporation. Expandable cassette. 3,701,495, 10-31-72, Cl. 242-197.000.
Holliday, Robert G., to Xerox Corporation. Fiche cleaning element. 3,705,436, 12-12-72, Cl. 15-210.00r.
Holliday, Robin D., to Olin Mathieson Chemical Corporation. Refractory hard metal composite cathode aluminum reduction cell. 3,661,736, 5-9-72, Cl. 204-67.000.
Hollie, Manuel E. Identifying device for documents. 3,664,910, 5-23-72, Cl. 161-147.
Hollies, Norman R.S.: *See—*
Getchell, Nelson F.; Berch, Julian; and Hollies, Norman R.S., 3,642,428.
Hollinger, Harvey T. Tray dispenser. 3,695,484, 10-3-72, Cl. 221-296.000.
Hollinghurst, Ralph; and Papay, Andrew G., to Mobil Oil Corporation. Multifunctional lubricant additive compositions and lubricating oils containing. 3,652,410, 3-28-72, Cl. 252-32.7.
Hollingsead, Robert A.; Kuchler, Abraham; and Pryor, Clyde Robert, to Hollingsead-Pryor Enterprises, Inc. Extractor hold down apparatus. 3,640,141, 2-8-72, Cl. 74-89.15.
Hollingsead-Pryor Enterprises, Inc.: *See—*
Hollingsead, Robert A.; Kuchler, Abraham; and Pryor, Clyde Robert, 3,640,141.
Hollingshead, Frank A., to Murphy, G. W., Industries, Inc. Drill bit. 3,685,601, 8-22-72, Cl. 175-318.000.
Hollingsworth, Ashley J., to Newell Industries Inc. Tape transport apparatus and cartridge therefor. 3,638,880, 2-1-72, Cl. 242-192.
Hollingsworth, Charles M.: *See—*
Kosicki, Witold W.; and Hollingsworth, Charles M., 3,638,351.
Hollingsworth, Clinton A.; Snyder, John Harold; and Gudath, Ernest Andrew. Sulfuric acid defluorination. 3,677,701, 7-18-72, Cl. 23-172.000.
Hollingsworth, Elmont E.: *See—*
Gaarder, Gilbert W.; and Hollingsworth, Elmont E., 3,648,856.
Hollingsworth, Gale C.; and Steffel, Ronald V., to Motorola, Inc. Amplifier protection circuit. 3,641,451, 2-8-72, Cl. 330-134.
Hollingsworth, Gale C., to Motorola, Inc. Power amplifier including plurality of push-pull amplifier sections having outputs coupled in parallel. 3,652,947, 3-28-72, Cl. 330-15.
Hollingsworth, John D. Method for grinding the sides of the teeth of flexible card clothing on a card engine. 3,650,077, 3-21-72, Cl. 51-327.
Hollingsworth, John W.: *See—*
Werlein, Eugene R.; Hollingsworth, John W.; and Pinson, Lyndon D., 3,699,231.
Hollingsworth, R. Lee. Laser tape recording. 3,662,100, 5-9-72, Cl. 178-6.6.
Hollingsworth, R. Lee. Magnetic, and magnetic removal recording. 3,662,403, 5-9-72, Cl. 346-74.00m.
Hollingsworth, Willis W., to United States Steel Corporation. Hanging bosh construction with means allowing for thermal expansion. 3,682,457, 8-8-72, Cl. 266-25.000.
Hollingworth, Richard Peck: *See—*
Anderson, John Ray; and Hollingworth, Richard Peck, 3,674,466.
Hollins, Jesse R. Clamp for vehicle storage battery spring type cable terminal. 3,699,506, 10-17-72, Cl. 339-237.000.
Hollins, Jesse R. Vehicle engine emissions control system. 3,705,497, 12-12-72, Cl. 60-283.000.
Hollis, Clint R.: *See—*
Baxter, Robert O.; Hollis, Clint R.; and Evans, Carlton F., 3,664,238.
Hollis, David L., to Lockheed Aircraft Corporation. Circuit providing fast pulse rise and fall times. 3,657,564, 4-18-72, Cl. 307-252.
Hollis, David L., to Corning Glass Works. Omnidirectional loop antenna array. 3,683,389, 8-8-72, Cl. 343-788.000.
Hollis, Frank: *See—*
Glasser, George; Hollis, Frank; and Kaplow, Milton, 3,655,404.
Hollis, James E., to Bancroft Racket Company. Adjustable grip for an elongated handle of a game device. 3,674,267, 7-4-72, Cl. 273-75.000.
Hollis, John Gordon, to Newall Engineering Company Limited, The. Conveyor systems. 3,662,876, 5-16-72, Cl. 198-219.
Hollis, Joseph B.: *See—*
McCaulay, James L.; and Hollis, Joseph B., 3,642,466.
Hollis, Paul R., Jr.: *See—*
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Hollis, Russell E., Jr., to General Processing Corporation. Coupler for trailers and the like. 3,647,244, 3-7-72, Cl. 280-512.
Hollis, Samuel D.: *See—*
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Hollis, Samuel D.; and Winston, Philip E., Jr., to Pennsylvania Industrial Chemical Corporation. Process for preparing a terpene phenolic condensation product. 3,692,844, 9-19-72, Cl. 260-619.00d.
Hollison, Ronald B.: *See—*
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Hollister, Harry W. Access door assembly. 3,636,671, 1-25-72, Cl. 52-211.
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Hasson, Harrith M., 3,706,307.
Hollister, John I., to Jackson Products Company. Hydraulic counterweight. 3,638,530, 2-1-72, Cl. 91-172.
Hollister, Kenneth R.: *See—*
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Hollister, Kenneth Robert; and Perry, Ernest John, to Eastman Kodak Company. Coagulation of aqueous polymeric dispersions of silver halide. 3,679,425, 7-25-72, Cl. 96-114.000.
Hollister, Kenneth Robert; Perry, Ernest John; and Dappen, Glen Marshall, to Eastman Kodak Company. Process for forming silver halide crystals in the presence of amphiphilic copolymers. 3,706,564, 12-19-72, Cl. 96-114.000.
Hollister, Leslie. Container for dispensing paper. 3,667,597, 6-6-72, Cl. 206-58.
Hollister, Robert H.; Wilburn, Garlington C.; and Green, Kurt G., to Westinghouse Electric Corporation. Circuit interrupter. 3,676,623, 7-11-72, Cl. 200-146.00r.
Hollman, Henry: *See—*
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Hollmann, Walter G.; and Lozo, Frederick M., III, to Teledyne, Inc., mesne. Line drawing and marking system. 3,677,786, 7-18-72, Cl. 117-1.700.
Hollo, Imre; Lengyel, Sandor; Hannauer, Milos; and Eross, Bela, to Egyesudt Izzolampa es Villamossagi/Reszvenytarsasag. Device for rendering uniform the feed of incandescent filaments of light sources. 3,695,412, 10-3-72, Cl. 198-34.000.
Hollo, Janos; Zagyvai, Istvan; and Koch, Lehel. Process for the production of fiberless green plant concentrate of full biological value. 3,637,396, 1-25-72, Cl. 99-9.
Holloway, Alta, Jr. Mobile kitchen. 3,696,803, 10-10-72, Cl. 126-276.000.
Holloway, Henry, to Ford Motor Company. Vacuum deposition. 3,647,197, 3-7-72, Cl. 263-47.
Holloway, Homer C. Mirror mounting means. 3,653,627, 4-4-72, Cl. 248-488.
Holloway, Joseph H.: *See—*
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Holloway, Milton J., to Beatrice Foods Co. Butter flavored composition. 3,663,236, 5-16-72, Cl. 99-134.
Holloway, Robert M.: *See—*
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Holloway, Wilbur. Pry bar and nail puller. 3,680,834, 8-1-72, Cl. 254-25.000.
Holloway, William W., Jr.; and Kestigian, Michael, to Sperry Rand Corporation. Lutetium neodymium doped yttrium aluminum garnet. 3,632,521, 1-4-72, Cl. 252-301.4.
Hollowood, John, to Wyeth, John, & Brother Limited, mesne. Piperazino methyl isatinylidine 3 acetates. 3,632,587, 1-4-72, Cl. 260-268.
Hollows, Frank Brian, to Imperial Chemical Industries, Limited. Preparation of fire-extinguishing material comprising heating biuret with sodium or potassium hydroxide. 3,642,621, 2-15-72, Cl. 252-5.
Hollox, Graham E.; Precht, Walter; Lye, Robert G.; and Westwood, Albert R. C., to Martin-Marietta Corporation. High temperature TiC-VC structural materials. 3,661,599, 5-9-72, Cl. 106-43.
Hollrah, Glennon H., to Monsanto Company. Anthelmintic method employing certain dithiocarbanilates. 3,686,413, 8-22-72, Cl. 424-300.000.
Hollrock, Richard H., to Kaman Aerospace Corporation. Aircraft ejection seat vehicle stowed rotor. 3,662,978, 5-16-72, Cl. 244-122.
Hollstein & Fuhrmann Ges.m.b.H. KG.: *See—*
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Hollstein, Carl P., Jr., to International Business Machines Corporation. Information storage recording signal amplitude control. 3,653,062, 3-28-72, Cl. 346-74.
Hollstein, Elmer J., to Sun Oil Company. Separation of aldesters from an oxidation mixture. 3,632,856, 1-4-72, Cl. 260-469.
Hollstein, Elmer J., to Sun Oil Company. Process for preparing phthalimidines. 3,681,384, 8-1-72, Cl. 260-325.000.
Hollstein, Elmer J.; and Scott, Kenneth A., to Sun Oil Company. Preparation of 2-pyrrolidinone. 3,681,387, 8-1-72, Cl. 260-326.5fn.

Hollstein, Elmer J.; and Hall, Lewis W., Jr., to Standard Oil Company. Process for the recovery of essentially pure amorphous polyolefins. 3,705,885, 12-12-72, Cl. 260-93.700.

Hollwedel, Henry C., Jr., to George Lithograph Company. Machine for producing plates and prints from microfilm. 3,634,006, 1-11-72, Cl. 355-3.

Hollwedel, Henry C., Jr., to George Lithograph Company. Machine for making prints from microfilm fiche. 3,684,366, 8-15-72, Cl. 355-5.000.

Holly, Harry H.: *See—*
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Holly, James A., to Hollymatic Corporation. Molding device for plastic material. 3,654,665, 4-11-72, Cl. 17-32.

Holly, James A., to Hollymatic Corporation. Electrical connector. 3,676,835, 7-11-72, Cl. 339-73.000.

Holly, James A., to Hollymatic Corporation. Toothbrush. 3,683,442, 8-15-72, Cl. 15-167.00r.

Holly, James A., to Hollymatic Corporation. Molding apparatus. 3,693,213, 9-26-72, Cl. 17-32.000.

Holly, James A., to Permalok International, Inc. Wig. 3,699,978, 10-24-72, Cl. 132-53.000.

Holly Sugar Corporation: *See—*
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Hollyday, William C., Jr., to Esso Research and Engineering Company. Distillate fuel oil containing nitrogen-containing salts or amides as wax crystal modifiers. 3,658,493, 4-25-72, Cl. 44-62.

Hollyday, William C., Jr., to Esso Research and Engineering Company. Fuel oil compositions containing a mixture of polymers to improve the pour point and flow properties. 3,661,541, 5-9-72, Cl. 44-62.

Hollyer, John R.; and Andreas, Robert A., to Drever Company. Continuous quenching apparatus. 3,650,282, 3-21-72, Cl. 134-122.

Hollyhead, William Brian: *See—*
Pioli, Alexander Joseph Peter; Hollyhead, William Brian; and Todd, Peter Frank, 3,681,317.

Hollymatic Corporation: *See—*
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Hollywood, John M.: *See—*
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Holm, Barry Douglas; and Senese, Daniel John, to Bell Telephone Laboratories, Incorporated. Error detection arrangement for register-to-register data transmission. 3,649,963, 3-14-72, Cl. 340-146.1.

Holm, Bengt L., to Kockums, Mekaniska Verkstads Aktiebolag. Apparatus utilizing sonic vibrations to facilitate the movement of particulate material along a sloping surface. 3,637,115, 1-25-72, Cl. 222-195.

Holm, Burton J. Structural connections for building constructions. 3,683,569, 8-15-72, Cl. 52-93.000.

Holm, Fritz Bertil Willy: *See—*
Norr, Artur Valter Leopold; and Holm, Fritz Bertil Willy, 3,654,085.

Holm, Herbert K.: *See—*
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Holm, John D.: *See—*
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Holm, Karl Arne, to Hammarplast AB. Target-shooting dummy. 3,685,830, 8-22-72, Cl. 273-102.00r.

Holm, Kurt Anders; Hansson, Rune Einar; and Berglund, Bengt Gunnar, to Uddeholms Aktiebolag. Apparatus for steam degreasing. 3,656,492, 4-18-72, Cl. 134-64.

Holm, Le Roy W., to Union Oil Company of California. Method for improving the injectivity of brine into water injection wells. 3,637,015, 1-25-72, Cl. 166-273.

Holm, Le Roy W., to Union Oil Company of California. Method for improving the injectivity of water injection wells. 3,637,016, 1-25-72, Cl. 166-273.

Holm, Le Roy W., to Union Oil Company of California. Soluble oil composition. 3,673,124, 6-27-72, Cl. 252-8.55d.

Holm, Le Roy W., to Union Oil Company of California. Soluble oil composition. 3,697,424, 10-10-72, Cl. 252-8.55d.

Holm, Lennart: *See—*
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Holm, Leroy W.: *See—*
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Holm, Leroy W., to Union Oil Company of California. Oil recovery method using crude oil base soluble oil compositions. 3,664,419, 5-23-72, Cl. 166-274.

Holm, LeRoy W., to Union Oil Company of California. Soluble oil composition. 3,691,072, 9-12-72, Cl. 252-8.55d.

Holm, Robert Leander; and Ashford, John Wesley, to Litton Systems, Inc. Ceramic ball insulated depressed collector for a microwave tube. 3,679,929, 7-25-72, Cl. 315-5.380.

Holm, Svend A.: *See—*
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Holm, Svend Age, to Danfoss A/S. Method of producing a toothed ring for an internal-shaft meshing rotary piston engine. 3,705,619, 12-12-72, Cl. 51-287.000.

Holm, Thomas E., 51% to Holm, Herbert K. Solid particles separation. 3,707,229, 12-26-72, Cl. 609-157.000.

Holm, Vernon C. F.: *See—*
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Holm, Wayne E., to Hydril Company, mesne. Remote terminal computing unit to compute B/A x C values, for use by central computer. 3,673,392, 6-27-72, Cl. 235-150.500.

Holm, Wayne E., to Hydril Company, mesne. Net fluid computing unit for use with central computer. 3,673,574, 6-27-72, Cl. 340-172.5.

Holm, William J. Apparatus for breaking sheet ice. 3,639,005, 2-1-72, Cl. 299-25.

Holm, William J., to Riggs & Lombard, Inc. Apparatus for continuously scouring webs of knit material or the like. 3,640,099, 2-8-72, Cl. 68-19.1.

Holm, William Z., to Helm Tractor & Equipment Company. Automatic milking barn. 3,699,922, 10-24-72, Cl. 119-14.030.

Holman, Donald John, to Berk Limited. Preparation of brominated silane derivatives. 3,641,087, 2-8-72, Cl. 260-448.8.

Holman, Donald John, to Berk Limited. Brominated siloxanes and their preparation. 3,663,587, 5-16-72, Cl. 260-448.80r.

Holman, John G., to Roberts Consolidated Industries, Inc. Means and method for applying facing strips to cores. 3,674,590, 7-4-72, Cl. 156-252.000.

Holman, Leonard: *See—*
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Holman, Robert S.: *See—*
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Holman, Rudolph G., to AMF Incorporated. Ski and method of manufacture. 3,635,482, 1-18-72, Cl. 280-11.13.

Holmberg, Eugene P. Board game apparatus. 3,667,757, 6-6-72, Cl. 273-135.

Holme, John: *See—*
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Holmer, Bernt Arne Gustaf, to Aktiebolaget Atomenergi. Appliance for interstitial radiation of organs in the body. 3,674,006, 7-4-72, Cl. 128-1.200.

Holmer, Donald A.; and Pickett, Oscar A., Jr., to Monsanto Company. Process for preparing a polyamide. 3,651,022, 3-21-72, Cl. 260-78.

Holmes, Allen B., to United States of America, Army. Shock wave sensor. 3,642,017, 2-15-72, Cl. 137-81.5.

Holmes, Ann: *See—*
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Holmes, Billy D.: *See—*
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Holmes, Brandon M., to Progressive Products Corporation, mesne. Deep fat fryer apparatus. 3,667,374, 6-6-72, Cl. 99-408.000.

Holmes, David Alan, to Du Pont de Nemours, E. I., and Company. Concentration of polytetrafluoroethylene aqueous dispersion. 3,704,272, 11-28-72, Cl. 260-29.60f.

Holmes, David Alan, to Du Pont de Nemours, E. I., and Company. Reduced sludge formation in large particle tetrafluoroethylene polymer aqueous dispersion. 3,705,867, 12-12-72, Cl. 260-29.60f.

Holmes, David Alan, to Du Pont de Nemours, E. I., and Company. Elimination of brown scum in tetrafluoroethylene polymer aqueous dispersions. 3,707,517, 12-26-72, Cl. 260-29.60f.

Holmes, Elizabeth E.: *See—*
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Holmes, Ervine Stout: *See—*
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Holmes, Frank; Arias, Henry, Jr.; and Read, George, to Ajax Hardware Manufacturing Corporation. Adjustable bracket assembly for use as a rear drawer slide bracket and the like. 3,675,883, 7-11-72, Cl. 248-251.000.

Holmes, Fred S. Method and apparatus for removing sand from wells. 3,697,194, 10-10-72, Cl. 417-54.000.

Holmes, Frederick M., Sr. Protective collar devices. 3,657,739, 4-25-72, Cl. 2-2.

Holmes, Gordon W. Paint container. 3,643,854, 2-22-72, Cl. 229-14.

Holmes Hardware & Sales Co.: *See—*
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Holmes, John E.: *See—*
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Holmes, John E. Rotary sign device. 3,638,341, 2-1-72, Cl. 40-39.

Holmes, John F.: *See—*
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Holmes, Kenneth E., to Vulcan Corporation. Shoe last. 3,657,755, 4-25-72, Cl. 12-136.
Holmes, Lawrence, Jr. Cycle inhibitor for an electrical typewriter. 3,643,773, 2-22-72, Cl. 197-16.
Holmes, Lawrence, Jr. Circuits for interconverting groups of parallel form and serial form signal bits. 3,646,573, 2-29-72, Cl. 178-4.1.
Holmes, Lawrence, Jr. Data input mechanism for an electrical typewriter. 3,658,161, 4-25-72, Cl. 197-19.
Holmes, Lawrence, Jr. Self-contained reed switch unit. 3,678,425, 7-18-72, Cl. 335-207.000.
Holmes, Lloyd H.; and Sundland, William D., to LTV Electrosystems, Inc. Rotational coupling. 3,678,810, 7-25-72, Cl. 92-119.000.
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Holmes, Raymo W.; and Holmes, Elizabeth E. Container. 3,698,779, 10-17-72, Cl. 312-126.000.
Holmes, Richard E.: *See*—
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Holmes, Robert W., to Bausch & Lomb Incorporated. Accessory mounting mechanism for a microscope. 3,645,609, 2-29-72, Cl. 350-91.
Holmes, Samuel J.; and Woodberry, Frank Joseph, to Union Carbide Corporation. Laser polarizing beam splitter. 3,704,934, 12-5-72, Cl. 350-152.000.
Holmes, Terry M., to Case, J. I., Company. Safety device for mobile cranes. 3,680,714, 8-1-72, Cl. 212-145.000.
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Wesselink, Gustaaf Adolf; Holmes, Thomas; de Kock, Arie Jan Rudolf; and Goorissen, Jan, 3,678,315.
Holmes, Tunis L.; and Moore, Robert N. Process for nickel-cobalt separation. 3,642,440, 2-15-72, Cl. 23-183.
Holmes, W. Church. Process for recovery of metals. 3,657,081, 4-18-72, Cl. 204-105.
Holmes, Walter V.; and Renz, John F., to Computer Test Corporation. Peak and hold system. 3,701,909, 10-31-72, Cl. 307-246.000.
Holmes, William A., to Polaroid Corporation. Magnetic recording apparatus having an impact resistant head mounting feature. 3,682,482, 8-8-72, Cl. 274-4.00h.
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Holmgren, Ephraim T. Shelf brackets. 3,687,410, 8-29-72, Cl. 248-235.000.
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Holmquist, Larry M. Coin value teaching device. 3,690,017, 9-12-72, Cl. 35-24.00r.
Holmstrom, Ola Ragnar; and Lundin, Kurt Ake, to LKB-Produkter AB. Magnetic stirrer device. 3,689,033, 9-5-72, Cl. 259-5.000.
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Hori, Yasuaki; Yoneda, Kazuo; and Kobayashi, Takahiko, to Showa Denko Kabushiki Kaisha. Coating compositions for arresting the surface lubricity of polyolefin shaped articles. 3,689,441, 9-5-72, Cl. 260-5.000.

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Horowitz, Alexandre; and Beusink, Bernard Joseph, to U.S. Philips Corporation. Cutter cylinder lawn mower in which the cutter cylinder is arranged so as to be self-energizing. 3,685,265, 8-22-72, Cl. 56-249.000.
Horowitz, Carl, to Polymer Research Corporation. Method of grafting polymerizable monomers onto substrates. 3,698,931, 10-17-72, Cl. 117-47.00r.
Horowitz, Charles, to Berg Manufacturing Company, The, mesne. Dual line brake. 3,636,822, 1-25-72, Cl. 92-63.
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Horowitz, Frederick; and Dede, Joseph B., Jr., to Georgia-Pacific Corporation. Process for making wood laminate. 3,658,622, 4-25-72, Cl. 156-331.
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Horrom, Bruce Wayne, to Abbott Laboratories. Certain 1-aralkyl azetidines. 3,649,618, 3-14-72, Cl. 260-239.
Horrom, Bruce Wayne; and Crovetti, Aldo Joseph, to Abbott Laboratories. Substituted propargyl benzamides. 3,652,670, 3-28-72, Cl. 260-558.
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Horstman, Gilbert F. Centrifugal clutch. 3,680,674, 8-1-72, Cl. 192-105.0ba.
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Horton, Alfred A., to Barber-Colman Company. Single triac reversible motor control. 3,673,479, 6-27-72, Cl. 318-208.000.

Horton, Billy M. Open-end ratchet wrench. 3,641,847, 2-15-72, Cl. 81-111.

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Horton, George F. Bracket for mounting boat accessory. 3,674,228, 7-4-72, Cl. 248-4.000.

Horton, Herbert D. Rotary pipe straightener. 3,706,215, 12-19-72, Cl. 72-99.000.

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Horton, John P.; and Sulser, Troy S., to Danline Manufacturing Company. Rotary brush plastic bristle holder and mounting means. 3,678,530, 7-25-72, Cl. 15-180.000.

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Horton, Paul F. Inflating device. 3,633,230, 1-11-72, Cl. 9-345.

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Horton, Robert A., to Precision Metalsmiths, Inc. Methods of removing patterns from investment molds. 3,636,190, 1-18-72, Cl. 264-221.

Horton, Robert A.; and Coghill, Timothy L., to Precision Metalsmiths, Inc. Resin-coated sand mixes for shell molding. 3,668,160, 6-6-72, Cl. 260-19.

Horton, Robert A., to Precision Metalsmiths, Inc. Refractory cores and methods of making the same. 3,686,006, 8-22-72, Cl. 106-38.300.

Horton, Robert A., to Precision Metalsmiths, Inc. Refractory cores. 3,688,832, 9-5-72, Cl. 164-72.000.

Horton, Robert C., to Bramson Instruments, Incorporated. Sonic or ultrasonic cutting apparatus. 3,679,526, 7-25-72, Cl. 156-580.000.

Horton, Robert F. Electrical connector. 3,659,250, 4-25-72, Cl. 339-91.00b.

Horton, William E., III, to Westinghouse Electric Corporation. Electrical bushing assembly. 3,684,995, 8-15-72, Cl. 337-224.000.

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Horvath, Bertalan, to Phillips Petroleum Company. Polymerization catalyst. 3,646,000, 2-29-72, Cl. 260-93.7.

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Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 1,2,3,4,6,7-Hexahydro-11bH-benzo[a] quinolizines. 3,635,984, 1-18-72, Cl. 260-286.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Tetrahydroisoquinoline-2 carboxamides. 3,637,709, 1-25-72, Cl. 260-287.

Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Substituted benzylideneamino guanidines. 3,637,849, 1-25-72, Cl. 260-564.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Substituted benzylideneamino guanidines. 3,637,850, 1-25-72, Cl. 260-564.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 3-alkyl benzazonines. 3,642,777, 2-15-72, Cl. 260-239.
Houlihan, William J.; and Eberle, Marcel K., to Sandoz-Wander, Inc. Substituted tetrazoloisoindoles. 3,642,814, 2-15-72, Cl. 260-308.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Isoindolo[1,2-a] isoquinoline-8-ones. 3,644,369, 2-22-72, Cl. 260-289.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Isoindolo[1,2-a] isoquinolines. 3,644,370, 2-22-72, Cl. 260-289.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 2,5-Benzodiazonin-3-ones. 3,655,648, 4-11-72, Cl. 260-239.3.
Houlihan, William J., to Sandoz-Wander, Inc. Octahydropyridazino [1,2-a] pyridazines. 3,657,239, 4-18-72, Cl. 260-250.
Houlihan, William J., to Sandoz-Wander, Inc. 2,6-substituted-4,5-dihydropyridazin(2H)-3-ones and 1,3-substituted hexahydropyridazines. 3,657,242, 4-18-72, Cl. 260-250.
Houlihan, William J., to Sandoz-Wander, Inc. Imidazo [2,1-a] isoindoles. 3,657,269, 4-18-72, Cl. 260-309.6.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Benzylideneamino guanidines. 3,657,337, 4-18-72, Cl. 260-551.
Houlihan, William J., to Sandoz-Wander, Inc. 2-(τ-Chloroalkyl)-6-aryl substituted-4,5-dihydropyridazin (2H)-3-one. 3,658,814, 4-25-72, Cl. 260-250.
Houlihan, William J.; and Nadelson, Jeffrey, to Sandoz-Wander, Inc. 5-(Substituted-benzyl)-dibenzo[a,d]cycloheptenes. 3,661,910, 5-9-72, Cl. 260-268.
Houlihan, William J., to Sandoz-Wander, Inc. 1,5-Diazacyclononanes. 3,663,536, 5-16-72, Cl. 260-239.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 2,3,5,6-Tetrahydroimidazo[2,1-b]thiazoles. 3,671,533, 6-20-72, Cl. 260-306.700.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 6,6-Di-lower alkyl-2,3,5,6-tetrahydroimidazo [2,1-b] thiazoles. 3,671,534, 6-20-72, Cl. 260-306.700.
Houlihan, William J., to Sandoz-Wander, Inc. Dichloro trifluoromethyl phenyl lithium. 3,674,882, 7-4-72, Cl. 260-665.00r.
Houlihan, William J., to Sandoz-Wander, Inc. Dialkylaminomethylphenyl benzyl alcohols. 3,678,111, 7-18-72, Cl. 260-570.000.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Secondaryamino pyridazines. 3,683,085, 8-8-72, Cl. 424-250.000.
Houlihan, William J.; and Manning, Robert E. Substituted thiazolo[3,2-a] pyrimidines. 3,686,173, 8-22-72, Cl. 260-251.00a.
Houlihan, William J.; and Nadelson, Jeffrey. Substituted isochromar or phthalan piperidenes. 3,686,186, 8-22-72, Cl. 260-293.580.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 1-Hydroxy-isoindol-3-ones. 3,686,207, 8-22-72, Cl. 260-325.000.
Houlihan, William J.; and Nadelson, Jeffrey. Substituted dibenz [a,h] azulenones and 8-(oxa or thia) substituted dibenz [a,h] azulenones. 3,687,975, 8-29-72, Cl. 260-327.00b.
Houlihan, William J. Substituted tetrahydro-1H-pyrazolo [1,2-b] phthalazines. 3,694,442, 9-26-72, Cl. 260-250.00a.
Houlihan, William J.; and Nadelson, Jeffrey. 5-(Substituted-benzyl)-benzocycloheptenes and -1-benzothiepines. 3,694,446, 9-26-72, Cl. 260-268.0bc.
Hoult, David Parks: *See*—
Cross, Ralph Herbert, III, 3,706,382.
Hoult, J. A., Enterprises Limited: *See*—
Hoult, John A., 3,702,702.
Hoult, John A., to Hoult, J. A., Enterprises Limited. Lacrosse stick. 3,702,702, 11-14-72, Cl. 273-96.00d.
Hoult, Raymond Oliver, to Coal Industry (Patents) Limited. Apparatus for rinsing small particulate material. 3,706,416, 12-19-72, Cl. 239-193.000.
Hounshell, James R.; and Pringle, William L., to Pullman Incorporated. Flexible movable enclosure for vehicles. 3,677,197, 7-18-72, Cl. 105-378.000.
Houot, Jean-Jacques; Pelissier, Yves; and Durand, Jean-Francois, to Etablissement public a caractere industrial et commercial dite: Entreprise de Recherches et d'Activites Petrolieres (ELF). Sealing-tight, controlled-friction connecting device between two ipe elements. 3,645,565, 2-29-72, Cl. 285-18.
House, Bruce F., to Shelley Manufacturing Company. Plural stack dispenser having common actuation for stacks. 3,640,427, 2-8-72, Cl. 221-127.
House, Bruce F., to Shelley Manufacturing Company. Operating apparatus for cart. 3,701,396, 10-31-72, Cl. 188-21.000.
House, Chas. W., & Sons, Incorporated: *See*—
Tranfield, George, 3,684,284.
House, John I. Rearview mirror. 3,702,535, 11-14-72, Cl. 60-54.50r.
House, Ralph: *See*—
Danzik, Mitchell; and House, Ralph, 3,697,573.
House, Robert L. Tunnel boring apparatus. 3,672,726, 6-27-72, Cl. 299-31.000.
House, Ronald Raymond, to American Cyanamid Company. Ceiling tile carrying anti-sag coating. 3,655,431, 4-11-72, Cl. 117-126.
House, Ronalee, to General Motors Corporation. Three position pivotal switch with improved spring biased joystick actuator and contact. 3,679,847, 7-25-72, Cl. 200-6.00a.
House, William R.: *See*—
Glass, Robert I.; Phillips, William; and House, William R., 3,695,125.
House, William T.: *See*—
Adams, Clark E.; and House, William T., 3,668,116.
Houseknecht, Theodore M., to Fuller Company. Shrinkage compensating cement. 3,649,317, 3-14-72, Cl. 106-90.
Houseman, John, to Hercules Incorporated, mesne. Solids arc reactors apparatus and method. 3,668,108, 6-6-72, Cl. 204-323.000.
Houseman, Paul S.: *See*—
Hickner, George B.; Howard, Donald W.; Houseman, Paul S.; and Carp, Ralph W., 3,704,043.
Houser, F. Douglass: *See*—
Hartley, Richard S.; Churley, George; and Houser, F. Douglass, 3,695,171.
Houser, Franklin Douglass,: *See*—
Hartley, Richard S.; and Houser, Franklin Douglass,, 3,672,420.
Houser, George G.; and Jenkins, Robert E., to International Business Machines Corporation. Data processor and compactor therefor. 3,680,103, 7-25-72, Cl. 343-17.10r.
Houser, Philip H., to Mead Corporation, The. Inlet plate for a coating head. 3,645,448, 2-29-72, Cl. 239-15.
Houser, Philip H., to Mead Corporation, The. Coating head sub-assembly with clean out port. 3,647,138, 3-7-72, Cl. 239-104.
Houser, Philip H., to Mead Corporation, The. Drop generator with rotatable transducer. 3,701,476, 10-31-72, Cl. 239-102.000.
Housholder, William R.: *See*—
Gammill, Adrian Monroe; Guinn, Franklin Keith; Bird, Urban S.; and Housholder, William R., 3,667,423.
Housley, John Rosindale: *See*—
Oxley, Peter; and Housley, John Rosindale, 3,639,434.
Housman, Earl R.: *See*—
Hale, David A.; and Housman, Earl R., 3,656,102.
Housman, William A. Card and verification system having card voiding element. 3,641,499, 2-8-72, Cl. 340-149.
Houst, Douglas R.: *See*—
Mason, William B.; and Houst, Douglas R., 3,649,896.
Houston Gamma Ray Company: *See*—
Ketchbaw, Thomas E.; Foster, Robert D.; and Arvanetakis, Kiryako, 3,691,385.
Houston, George Porter, Jr., to Bendix Corporation, The. Mechanical raster scanner means using fiber optics for pattern recognition or display. 3,636,365, 1-18-72, Cl. 250-227.
Houston, Herbert James; Baird, Robert Gordon; Bolt, Kenneth Dale; and Gretzinger, Adolf, to Slater, N., Company; division of Slater Steel Industries Limited. Clamping assembly for aerially suspended cables. 3,633,858, 1-11-72, Cl. 248-63.
Houston, Jack W. Umbrella folding assembly. 3,680,571, 8-1-72, Cl. 135-22.000.
Houston, Jack W. Foldable umbrella. 3,692,035, 9-19-72, Cl. 135-25.000.
Houston, James. Toilet for household pets. 3,656,457, 4-18-72, Cl. 119-1.
Houston, John B., to Burroughs Corporation. Storage system having a head assembly for reading and writing on a record member having a touch indicator circuit. 3,634,835, 1-11-72, Cl. 340-174.1.
Houston, John M., to General Electric Company. System for conducting heat from an electrode rotating in a vacuum. 3,694,685, 9-26-72, Cl. 313-60.000.
Houston Natural Gas Corporation: *See*—
Ebner, Iheran L., 3,683,368.
Houston, Richard K., to Agrecology, Incorporated. Agriculture irrigating method. 3,643,442, 2-22-72, Cl. 61-12.
Houston, Robert D., to Xerox Corporation. Digital signal synchronizing system. 3,671,776, 6-20-72, Cl. 307-269.000.
Houston, Robert J.; and Csicsery, Sigmund M., to Chevron Research Company. Catalyst composition comprising a mixture. 3,639,273, 2-1-72, Cl. 252-455.
Houston, William L., Jr.: *See*—
Mitchell, Norris W.; Skraba, Frank W.; and Houston, William L., Jr., 3,681,897.
Houston, William L., Jr.; and Clark, William C., to Phillips Petroleum Company. Removal of polymer from cracked gas caustic washes or caustic solutions. 3,679,765, 7-25-72, Cl. 260-683.00r.
Houtz, Kenneth E.: *See*—
Kampert, Keith W.; and Houtz, Kenneth E., 3,666,332.
Houtz, Kenneth E., to International Harvester Company. Self aligning and self adjusting thrust bushing assembly. 3,677,613, 7-18-72, Cl. 308-135.000.
Hovagimyan, Norman; and Van Delft, Robert Neale, to RCA Corporation. Solid state analog cross-point matrix having bilateral crosspoints. 3,639,908, 2-1-72, Cl. 340-166.

Hovasse, Christian: *See—*
Bonnel, Bernard; and Hovasse, Christian, 3,656,985.
Hoven, Hubert: *See—*
Rolauffs, Hans; Hoven, Hubert; Hippel, Hans; and Schafer, Max, 3,695,199.
Hover, Borre, to A/S Norsk Viftefabrikk. Ceiling structure with lights. 3,655,961, 4-11-72, Cl. 240-9.
Hover, Borre, to A/S Norsk Viftefabrikk. Ceiling structure II. 3,687,056, 8-29-72, Cl. 98-40.00l.
Hover, Paul B., to Tecumseh Products Company. Compressor muffler construction. 3,698,840, 10-17-72, Cl. 417-312.000.
Hovermarine (Canada) Limited: *See—*
Richardson, Harold; and Newman, Bruce D., 3,700,064.
Hovestad, Adrian P. Self-extending dockboard. 3,671,990, 6-27-72, Cl. 14-71.000.
Hovey, Almon G.: *See—*
Dean Hubert W.; and Hovey, Almon G., 3,634,280.
Dean, Hubert William; and Hovey, Almon G., 3,661,790.
Hovey, Richard J., to American Optical Corporation. Variable density light filtering system. 3,645,909, 2-29-72, Cl. 252-300.
Hovey, Richard J., to American Optical Corporation. Variable density light filtering means utilizing leuco phenazine dyes. 3,660,299, 5-2-72, Cl. 252-300.
Hovik, J. Kjell: *See—*
Furst, Jozef; and Hovik, J. Kjell, 3,705,420.
Hovis, Donald B.: *See—*
Kovalcik, John N.; and Hovis, Donald B., 3,697,223.
Hovius, Eerenst Frans, to U.S. Philips Corporation. Apparatus for aligning two objects which comprises a source of light, a photosensitive detection system and two pattern carriers. 3,671,755, 6-20-72, Cl. 250-237.00r.
Hovnanian, Vram E.; and Kitzmiller, Edward, to Logic Dynamics, Inc. Microelectronic package, buss strip and printed circuit base assembly. 3,670,208, 6-13-72, Cl. 317-101.
Hovy, J. W. Hermann: *See—*
Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Shorre, Gustav; Hovy, J. W. Hermann; and Schorscher, Ernst, 3,669,956.
Hovy, Jan Willem: *See—*
Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorre, Gustav; Hovy, Jan Willem; and Schorscher, Ernst, 3,669,972.
Hovy, Jan Willem Herman: *See—*
Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schoree, Gustav; Hovy, Jan Willem Herman; and Schorscher, Ernst, 3,669,973.
Howa Kogyo Kabushiki Kaisha: *See—*
Ohira, Banri, 3,631,620.
Sakazaki, Katsuhiko; and Saruhashi, Shigeru, 3,682,491.
Howa Sangyo Kabushiki Kaisha: *See—*
Ando, Tsuneo; and Nakashima, Hironori, 3,648,481.
Howald, Frank Peterson: *See—*
Gieseke, Elmer William; and Howald, Frank Peterson, 3,640,862.
Howald, Werner E.: *See—*
Wright, Jack D.; and Howald, Werner E., 3,632,224.
Howaldtswerke-Deutsche Werft Aktiengesellschaft Hamburg und Keil: *See—*
Ehluss, Heinz-Gunter; and Wessel, Erich, 3,659,503.
Howard, Anthony: *See—*
Greenfield, Stephen J.; Howard, Anthony; and Knapp, Lowell W., 3,697,063.
Howard, Arthur G.: *See—*
Crisman, Marilou; and Howard, Arthur G., 3,654,629.
Sterns, Lorance E.; and Howard, Arthur G., 3,664,458.
Howard, Arthur G. Tossing game having target surfaces tiltable in response to correctly tossed projectile. 3,656,748, 4-18-72, Cl. 273-102.1.
Howard Associates, Inc.: *See—*
Howard, Homer E., 3,704,699.
Howard, Boyd D.: *See—*
Sump, Kenneth R.; Robinson, Ramon K.; Drumheller, Kirk; and Howard, Boyd D., 3,666,846.
Howard, Carlton J.: *See—*
Port, Eugene B.; and Howard, Carlton J., 3,653,848.
Howard, Carlton J.; and Port, Eugene B., to Allied Chemical Corporation. Method for recovering dust produced in sodium carbonate manufacture. 3,634,999, 1-18-72, Cl. 55-72.
Howard, Darwin R. Holder for tetrahedron packages. 3,669,343, 6-13-7, Cl. 229-42.000.
Howard, David Campbell, to Gas Council, The. Leak clamp assemblies. 3,700,270, 10-24-72, Cl. 285-337.000.
Howard Displays, Inc.: *See—*
Kramer, Jerome D., 3,685,664.
Howard, Donald Kearey; Thomas, Brian Martin; Popplewell, Alan Francis; and Matossi, Dario, to Ciba-Geigy Corporation. Addictive for tin electroplating. 3,691,033, 9-12-72, Cl. 204-54.00r.
Howard, Donald W.: *See—*
Hickner, George B.; Howard, Donald W.; and Suttle, Ward C., 3,674,318.
Hickner, George B.; Howard, Donald W.; Houseman, Paul S.; and Carp, Ralph W., 3,704,043.
Howard, Donald W.; and Eppley, Dewey W., to Bendix Corporation, The. Hydraulic accumulator charge detector and indicating system. 3,662,333, 5-9-72, Cl. 340-52.
Howard, Donald W., to Bendix Corporation, The. Brake lining temperature probe. 3,674,114, 7-4-72, Cl. 188-1.00a.
Howard, Donald W.; and Hickner, George B., to Bendix Corporation, The. Adaptive braking control system. 3,674,320, 7-4-72, Cl. 303-21.00p.
Howard, Dwight Thomas, to Eastman Kodak Company. Document detecting and counting apparatus. 3,660,670, 5-2-72, Cl. 250-219.0dc.
Howard, Edward G., Jr., to Du Pont de Nemours, E. I., and Company. Copolymers of fluoroketone imines with polymerizable unsaturated compounds. 3,671,509, 6-20-72, Cl. 260-87.500.
Howard, Frank C., to Signode Corporation. Pneumatic piston return system and valve assembly for impact tools. 3,653,299, 4-4-72, Cl. 91-416.
Howard, Frank S., to United States of America, National Aeronautics and Space Administration. Geysering inhibitor for vertical cryogenic transfer pipe. 3,697,021, 10-10-72, Cl. 244-15.00b.
Howard, George C., to Pan American Petroleum Corporation. System for lowering a subsea device from a vessel. 3,641,961, 6-15-72, Cl. 114-.5.
Howard, Gerald T.: *See—*
Nichols, Charles E., Jr.; and Howard, Gerald T., 3,660,214.
Howard Hardware Products, Inc.: *See—*
Howard, Joel A., 3,703,234.
Howard, Harold K., to United States of America, Navy. Bipolar sample and hold circuit. 3,701,152, 10-24-72, Cl. 343-16.00m.
Howard, Herbert H., to Marine Swimming Pool Equipment Co. Automatically extensible and retractable swimming pool cleaner with housing in bond beam. 3,665,525, 5-30-72, Cl. 4-172.150.
Howard, Herbert H., to Marine Swimming Pool Equipment Co. Swimming pool skimmer with vacuum and sweeping controls. 3,701,427, 10-31-72, Cl. 210-169.000.
Howard, Homer E., to Howard Associates, Inc. Capacitor discharge ignition system with revolution limiter. 3,704,699, 12-5-72, Cl. 123-148.00e.
Howard, James Kent: *See—*
Ainslie, Norman G.; Cheroff, George; Graff, William S.; Howard, James Kent; and Ross, Rupert F., 3,695,855.
Howard, James N. Bicycle attachment and combination. 3,653,679, 4-4-72, Cl. 280-32.7.
Howard, Joel A., to Howard Hardware Products, Inc. Display packages for drills, bits and similar boring tools, providing means to test if proper size for a given bolt, screw or dowell. 3,703,234, 11-21-72, Cl. 206-78.00b.
Howard, John; and McIntosh, Terence D., to ITT Rayonier Incorporated. Plicatic acid esters. 3,644,481, 2-22-72, Cl. 260-473.
Howard, John, to International Telephone and Telegraph Corporation. Crystalline plicatin. 3,689,505, 9-5-72, Cl. 260-343.300.
Howard, John Alban, to Lever Brothers Company. Device for passing a product between zones of different pressure. 3,633,770, 1-11-72, Cl. 214-17.
Howard, Joseph D.: *See—*
Howard, Joseph D.; and Brobeck, William M. (said Brobeck assor. to said), 3,637,989.
Howard, Joseph D.; and Brobeck, William M. (said Brobeck assor. to said), 3,688,087.
Howard, Joseph D.; and Brobeck, William M., said Brobeck assor. to said Howard, Joseph D. Automatic pricing and inventory control apparatus. 3,637,989, 1-25-72, Cl. 235-61.7.
Howard, Joseph D.; and Brobeck, William M., said Brobeck assor. to said Howard, Joseph D. Method and apparatus for handling materials. 3,688,087, 8-29-72, Cl. 235-61.90r.
Howard, Laurence M. Ornamental article. 3,674,616, 7-4-72, Cl. 161-62.000.
Howard, Lawrence, 140/1500 to Hille, Jack, 140/1500 Andalman, Avrum N.; trustee, 680/1500 Cohen, Arnold L. and 115/1500 to Andalman, Avrum N. Electrical heating cables. 3,657,513, 4-18-72, Cl. 219-200.
Howard, Lawrence A. Clock mechanism actuated by successively supplied ball weights. 3,672,149, 6-27-72, Cl. 58-2.000.
Howard, Lawrence K. Character generator. 3,704,343, 11-28-72, Cl. 178-30.000.
Howard, Lloyd V. Solar distillation irrigation apparatus. 3,653,150, 4-4-72, Cl. 47-29.
Howard, Michael R., to Ford Motor Company. Method for making gear. 3,678,557, 7-25-72, Cl. 29-159.200.
Howard, Robert, to Centronics Data Computer Corporation. Print head assembly containing solenoids. 3,690,431, 9-12-72, Cl. 197-1.00r.
Howard, Robert; Robinson, Prentice I.; and Menhennett, Herbert E., to Centronics Data Computer Corporation. High-speed printer. 3,703,949, 11-28-72, Cl. 197-1.00r.
Howard, Robert C.: *See—*
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Howard, Robert E., to Armco Steel Corporation. Roller entry guide for rod mill. 3,664,074, 5-23-72, Cl. 72-250.
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Howard, Thomas W., 1/2 to Metro-Goldwyn-Mayer British Studios Limited. Front projection composite cinematography. 3,634,004, 1-11-72, Cl. 352-47.
Howard, Velmar E.: *See—*
MacCallum, James A.; Howard, Velmar E.; and Coberley, Daniel A., 3,677,856.
Howard, Vesper J.: *See—*
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Howard, Walter B.: *See—*
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Howard, Wayne R.; and Sisson, Ronald L., to Clark Equipment Company. Automatic control system for hydrostatic drive. 3,636,705, 1-25-72, Cl. 60-19.
Howard, Webster E., Jr.; Ludeke, Rudolf; and Stiles, Phillip J., to International Business Machines Corporation. Gated metal-semiconductor transition device. 3,648,124, 3-7-72, Cl. 317-235.
Howard, William A. Electrical signal generator and liquid level indicator. 3,646,293, 2-29-72, Cl. 200-84.
Howard, William L., to Dow Chemical Company, The. Crystalline propylene glycol. 3,632,657, 1-4-72, Cl. 260-635.
Howarth, Graham Arton; and Hoyle, William, to Ciba-Geigy Corporation. Substituted 5-nitrofuryl-pyrazoles. 3,682,953, 8-8-72, Cl. 260-310.00r.
Howarth, Graham Arton; and Hoyle, William, to Ciba-Geigy Corporation. Substituted 3-(5-nitro-2-furyl)-pyrazoles. 3,682,956, 8-8-72, Cl. 260-310.00r.
Howarth, Graham Arton; and Hoyle, William, to Ciba-Geigy Corporation. Compositions with 5-nitro-2-furyl-isoxazoles and their use as antibacterial and antifungal agents. 3,686,408, 8-22-72, Cl. 424-272.000.
Howatt, Glenn N., to Gulton Industries, Inc. Method of eliminating voids in ceramic bodies. 3,635,759, 1-18-72, Cl. 117-212.
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Cairns, Walter John; and MacDonald, Ian Norman, 3,642,386.
Fraser, William Milton; Cairns, Walter John; and Mac Donald, Ian Norman, 3,671,149.
Howe, Alan Colin Scott, to Laing, John, & Sons Limited. Entrainment of a fluid medium or other additive in a liquid or other formulation. 3,667,737, 6-6-72, Cl. 259-164.000.
Howe, Alan Colin Scott, to Laing, John, & Sons Limited. Low density concretes and their manufacture. 3,679,445, 7-25-72, Cl. 106-88.000.
Howe, Charles E.: *See—*
Brown, Gaylord W.; Russell, Edward J.; Howe, Charles E.; and Schnepp, Bradley A., 3,669,594.
Howe, Clarence H. Animal identification tag and installation tool therefor. 3,694,949, 10-3-72, Cl. 40-301.000.
Howe, Donald R.: *See—*
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Howe, Edwin W. Gyroscopes and suspensions therefor. 3,702,568, 11-14-72, Cl. 74-5.000.
Howe, Eugene E.; and Huff, Jesse W., to Merck & Co., Inc. Cholanic acid and cholenic acid compositions and method of treatment. 3,636,210, 1-18-72, Cl. 424-238.
Howe, Frank D., to Ingersoll-Rand Company. Fluid control valve. 3,656,502, 4-18-72, Cl. 137-327.
Howe, Frank D., to Ingersoll-Rand Company. Heat exchanger. 3,656,544, 4-18-72, Cl. 165-74.
Howe, Frank D., to Ingersoll-Rand Company. Cooler for gas. 3,667,541, 6-6-72, Cl. 165-74.000.
Howe, Frederick J.; and Jimenez, Mario E., to Monsanto Company. Programmed drive systems for drawtwisters. 3,636,696, 2-25-72, Cl. 57-95.
Howe, Guy E. Device for sensing overcurrent and ground leakage current. 3,648,111, 3-7-72, Cl. 317-18.
Howe, Hans-Ulrich, to Klockner-Humboldt-Deutz Aktiengesellschaft. Cylinders for air cooled reciprocable piston internal combustion engines. 3,659,568, 5-2-72, Cl. 123-41.69.
Howe, Hans-Ulrich, to Klockner-Humboldt-Deutz Aktiengesellschaft. Cylinder head connection for reciprocable piston internal. 3,699,852, 10-24-72, Cl. 92-169.000.
Howe, Harald O.; and Zaschke, Wolfgang. Manhole setup for sewer systems. 3,654,952, 4-11-72, Cl. 137-363.
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Howe, Theodore. Load carrying stacking platforms. 3,664,273, 5-23-72, Cl. 108-53.
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Howe, Wilson S. Quick connect coupler. 3,695,139, 10-3-72, Cl. 85-33.000.
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Howell, Charles Frederick; and Greenblatt, Eugene Newton, to American Cyanamid Company. 2-Chloro-7-hydroxy-11-(1-piperavinyl)dibenz [b,f][1,4]oxazepines. 3,660,406, 5-2-72, Cl. 260-268.
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Howell, Charles N., to Ajax Magnethermic Corporation. Scanning type induction heating. 3,689,726, 9-5-72, Cl. 219-10.710.
Howell, Eddie P.; Youngman, Carl A.; Hardison, Jack E.; and Tribble, Robert E., to Atlantic Richfield Company. Borehole thermal conductivity measurements. 3,668,927, 6-13-72, Cl. 73-154.000.
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Howell, Richard S.; and Brunner, Robert V., to Xerox Corporation. Dual mode electrographic recorder. 3,686,676, 8-22-72, Cl. 346-74.0es.
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Howick, Stanley O. Air washer. 3,702,048, 11-7-72, Cl. 55-238.000.
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Howland, Robert W.; and Van Fleet, Richard L., to Singer Company, The, mesne. Simulated aircraft radio aids. 3,663,734, 5-16-72, Cl. 35-10.2.
Howland, Robert W.; Minnich, George E.; and Van Fleet, Richard L., to Singer Company, The, mesne. Instrument drive signals. 3,694,930, 10-3-72, Cl. 35-12.00f.
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Hoyer, Georg-Alexander; and Pieroh, Ernst Albrecht, to Schering A.G. Salts of carbamic and thiocarbamic esters with fungicidal and fungistatic action. 3,649,674, 3-14-72, Cl. 260-482.
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Hoyt, Edwin R., to Core Cell Corporation. Method and apparatus for forming cellular cores. 3,660,195, 5-2-72, Cl. 156-197.
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Hrubesh, Lawrence W.; and Anderson, Roger E. (said Anderson assor. to said), 3,691,454.
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Hruby, John O., Jr., to Rain Jet Corporation. Liquid discharge nozzle with air injection feature. 3,633,822, 1-11-72, Cl. 239-17.
Hruby, John O., Jr., to Rain Jet Corporation. Liquid discharge nozzle having improved flow control means. 3,640,472, 2-8-72, Cl. 239-552.

Hruby, John O., Jr., to Rain Jet Corporation. Reverberating liquid discharge device. 3,643,866, 2-22-72, Cl. 239-101.

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Hruda, Robert M., to Westinghouse Electric Corporation. Electronic power regulation control device for providing constant electrical powers to a load of varying impedance. 3,688,204, 8-29-72, Cl. 328-267.000.

Hruschka, Ulrich: *See—*
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Hrusovsky, Louis J., to North American Rockwell Corporation. Metallic articles and the manufacture thereof. 3,661,655, 5-9-72, Cl. 148-12.000.

Hryniszak, Waldemar; and Graham, Robert Porteous, to Clarke, Chapman & Co., Limited. High temperature seals. 3,633,926, 1-11-72, Cl. 277-96.

HSH, Inc.: *See—*
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Hsia, Shwang, to Frye Industries, Inc., mesne. Process of making toner. 3,640,861, 2-8-72, Cl. 252-62.1.

Hsian, Chun-Chih. Automobile speed limiters. 3,635,101, 1-18-72, Cl. 74-526.

Hsiao, James C., to Union Special Machine Company. Control mechanism for sewing machine. 3,693,564, 9-26-72, Cl. 112-176.000.

Hsiao, Mu Y.: *See—*
Bossen, Douglas C.; Henle, Robert A.; Hsiao, Mu Y.; Maley, Gerald A.; and Pricer, W. David, 3,675,200.

Hsiao, Mu-Yue: *See—*
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Hsieh, Henry L.; and Busler, William R., to Phillips Petroleum Company. Vinyl ketone polymerization. 3,639,346, 2-1-72, Cl. 260-63.

Hsieh, Henry L.; and Mueller, Francis X., Jr., to Phillips Petroleum Company. Process for preparing block copolymers by reacting lactone with a polymer. 3,639,519, 2-1-72, Cl. 260-880.

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Hsieh, Henry L., to Phillips Petroleum Company. Method of gelling an organic liquid with terpolymer and gelled composition. 3,658,716, 4-25-72, Cl. 252-316.

Hsieh, Henry L., to Phillips Petroleum Company. Production of ABC terpolymers. 3,661,865, 5-9-72, Cl. 260-78.4.

Hsieh, Henry L.; and Buck, Ollie G., to Phillips Petroleum Company. Tetrapolymers and process for production thereof. 3,676,407, 7-11-72, Cl. 260-77.50r.

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Hsu, Harry L.: *See—*
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Hsu, Harry L., to Great Lakes Carbon Corporation. Fuel briquets and their method of manufacture. 3,684,465, 8-15-72, Cl. 44-10.000.

Hsu, Howard L.: *See—*
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Hsu, Tsong-Han, to U.S. Plywood-Champion Papers, Inc. Dimethylolamide modified bark alkali product and method of making same. 3,654,200, 4-4-72, Cl. 260-17.2.

Hsu, Yung Shing, to Omark Industries, Inc. Multi stage power load. 3,648,616, 3-14-72, Cl. 102-40.

Hsu, Yung Shing; and Pomeroy, Raymond V., to Omark Industries, Inc. Energy dissipating mechanisms. 3,678,808, 7-25-72, Cl. 92-85.000.

Hsueh, Chia Ying. Inter-pulse time interval detection circuit. 3,634,869, 1-11-72, Cl. 307-234.

Hsueh, Chia Ying, to RCA Corporation. Measurement of maximum dynamic skew in parallel channels. 3,681,693, 8-1-72, Cl. 324-188.000.

HTL Industries, Inc., mesne: *See—*
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Htoo, Maung S., to International Business Machines Corporation. Process using polyvinyl butral topcoat on photoresist layer. 3,652,273, 3-28-72, Cl. 96-36.

Hu, King Lau, to TRW, Inc. Alloy diode characteristics control method. 3,663,321, 5-16-72, Cl. 148-181.

Hu, Kwoh H.: *See—*
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Hu, Paul Y., to International Business Machines Corporation. Dynamoelectric machine with improved magnetic field construction. 3,668,452, 6-6-72, Cl. 310-266.000.

Hu, Shih-En: *See—*
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Hu, Shih-en, to Esso Research and Engineering Company. Lubricating oil compositions containing improved sludge inhibiting additives. 3,676,346, 7-11-72, Cl. 252-47.500.

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Huang, Chian L., to University of Mississippi, The. Detoxication of tung meal. 3,634,093, 1-11-72, Cl. 99-2.

Huang, Ching Yun: *See—*
Imoto, Minoru; Takemoto, Kiichi; and Huang, Ching Yun, 3,687,878.

Huang, Ching Yun; and Shimoi, Masahiro, to Japan Gas-Chemical Company, Inc. Coating compositions of carboxylic acid-containing terpolymers stabilized with aluminum alkoxide compounds. 3,632,546, 1-4-72, Cl. 260-362.

Huang, Ching Yun; Ueno, Kazuo; and Masawaki, Keizo, to Japan Gas-Chemical Company Inc. Heat-curable composition comprising polyglycidyl xylylene-diamine and process for preparation of polyglycidyl xylylenediamine. 3,683,044, 8-8-72, Cl. 260-830.0tw.

Huang, Denis K., to Westvaco Corporation. Alakali-swellable polyvinyl acetate grafted latexes comprising vinyl acetate, an aliphatic ester of an unsaturated monocarboxylic acid, styrene and an unsaturated monocarboxylic acid. 3,687,884, 8-29-72, Cl. 260-296rw.

Huang, George C.: *See—*
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Huang, Keng Tang: *See—*
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Huang, Kwang-Ta, to United States of America, Navy. Voltage regulating circuit. 3,697,856, 10-10-72, Cl. 321-10.000.

Huault, Jean, to Lever Brothers Company. Carrier for tubs or pots. 3,638,990, 2-1-72, Cl. 294-87.2.

Huba, Francis: *See—*
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Huba, Francis, to Du Pont de Nemours, E. I., and Company. Chromium plating bath containing chromic compound and organic component. 3,706,643, 12-19-72, Cl. 204-51.000.

Hubach, Louis E.; and Gardner, Edgar E., to Tyler, W. S., Incorporated. Edge seal strip for a tensioned screen. 3,666,277, 5-30-72, Cl. 277-166.000.

Hubach, Louis E., to Tyler, W. S., Incorporated. Vibratory grain cleaner with feed and discharge means. 3,680,697, 8-1-72, Cl. 209-240.000.

Hubach, Louis E., to Tyler, W. S., Incorporated. Grain cleaner. 3,688,902, 9-5-72, Cl. 209-240.000.

Hubach-Freer Corporation, mesne: *See—*
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Hubbard, Alan M. Method and means providing dosages of oral hygienic substance. 3,670,927, 6-20-72, Cl. 222-107.000.

Hubbard, Arthur Lowell; and Sanderson, Leon Franklin, to Deere & Company. Automatic height adjustment of crop harvester. 3,643,407, 2-22-72, Cl. 56-10.2.

Hubbard, Charles J., to Jorway Corporation. Optical interferometer. 3,661,464, 5-9-72, Cl. 356-106.

Hubbard, Claudia M.: *See—*
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Hubbard, George M.: *See—*
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Stevens, William P.; Hubbard, George M.; and Wagner, William D., 3,639,890.
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Hubbard, Glenn O.; deceased (by Hubbard, Claudia M.; executrix). Locating holes in tubing. 3,696,660, 10-10-72, Cl. 73-40.50r.

Hubbard, Glenn R., to Webster Electric Company, Inc. Spool release and sequence valve. 3,650,297, 3-21-72, Cl. 137-624.27.

Hubbard, Henry James: *See—*
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Hubbard, James R., to Philco-Ford Corporation. Laundry dryer. 3,696,521, 10-10-72, Cl. 34-128.000.

Hubbard, Leo J., to Xerox Corporation. Thermostatic heat wheel. 3,660,208, 5-2-72, Cl. 156-571.

Hubbard, Ronald R.; and Nalevanko, Richard N., to Anaconda Wire and Cable Company. Dispensable coil package. 3,700,185, 10-24-72, Cl. 242-159.000.
Hubbard, Vance M.: *See—*
Tims, Jerry L.; and Hubbard, Vance M., 3,648,109.
Hubbauer, Philip Clark; and McHenry, Edwin John, to Bell Telephone Laboratories, Incorporated. High temperature compression seal terminal. 3,678,178, 7-18-72, Cl. 174-152.00r.
Hubbel, Cohen & Stiefel: *See—*
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Hubbel, Edward F., to Aeroquip Corporation. Method of installing brazing rings. 3,639,721, 2-1-72, Cl. 219-91.
Hubbell, Franklin R., III, to Tenneco Inc. Off center pinch can for muffler. 3,643,760, 2-22-72, Cl. 181-48.
Hubbell, Franklin R., III, to Tenneco, Inc. Plural diameter tube. 3,654,764, 4-11-72, Cl. 60-324.
Hubbell, Harvey, Incorporated: *See—*
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Collart, Webber I.; and Galanis, Tom L., 3,656,855.
Fidrych, Alfred W., 3,638,987.
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Gartland, Albert J., Jr.; and D'Amato, Michael J., 3,676,829.
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Hubber, Richard H.; and Brown, Robert J., to Uniroyal, Inc. Apparatus for cooling tires during post inflation. 3,692,444, 9-19-72, Cl. 425-28.000.
Hubble, William Schenck; Woods, Kenneth K.; and Tramuta, Salvatore S., to General Electric Company. Modular combined moisture separator and reheater. 3,667,430, 6-6-72, Cl. 122-483.000.
Hubbuch, Theodore; Murfree, James A., Jr.; Duncan, William A.; Sandlin, Billy J.; and Nappier, Henry A., to United States of America, Army. Method of making a thermal bed for gas generating. 3,664,969, 5-23-72, Cl. 252-438.000.
Hubbuch, Theodore N.: *See—*
Murfree, James A., Jr.; Hubbuch, Theodore N.; Nappier, Henry A.; Duncan, William A.; and Sandlin, Billy J., 3,667,219.
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Hubby, Laurence M., to Texaco Inc. Methods for controlling pumping wells. 3,705,532, 12-12-72, Cl. 73-155.000.
Hubby, Laurence M., Jr. Optical resonator having acousto-optic output coupling means. 3,666,349, 5-30-72, Cl. 350-149.000.
Hube, Arthur B.: *See—*
Rush, Charles D.; and Hube, Arthur B., 3,680,734.
Hubel, Egon; and Hoeber, Gerhard, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Apparatus for the smooth switching-on of an electrical load. 3,670,237, 6-13-72, Cl. 321-47.000.
Hubel, Otto, to Dupol-Rubbermaid GmbH Fabrik fur Gummi- und Kunststofferzeugnisse. Foot mat for vehicles. 3,654,657, 4-11-72, Cl. 15-215.
Hubele, Adolf, to Ciba Limited. Oxime thiophosphates. 3,634,557, 1-11-72, Cl. 260-944.
Hubele, Adolf; and Rohr, Otto, to Ciba-Geigy Corporation. N-[3-Trifluoromethyl-4-chlorophenyl]-carbamates. 3,676,457, 7-11-72, Cl. 260-347.400.
Hubenak, Daniel W., Jr.: *See—*
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Huber, Buel D.; and Enloe, Howard M. System for heating a section of pipe. 3,706,824, 12-19-72, Cl. 263-2.00r.
Huber, Charles L., to Xerox Corporation. Portable document abstrator. 3,677,633, 7-18-72, Cl. 355-7.000.
Huber, Clayton S.: *See—*
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Huber, Douglas B., to Polacoat, Inc. Rear projection screen. 3,705,757, 12-12-72, Cl. 350-126.000.
Huber, Ernest G. Internal combustion engine including maximum firing pressure-limiting means. 3,633,552, 1-11-72, Cl. 123-48.
Huber, Ernst: *See—*
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Huber, Gerhard: *See—*
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Huber, Hans: *See—*
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Huber, Hans F., to National Cash Register Company, The. Encapsulation process. 3,703,474, 11-21-72, Cl. 252-316.000.
Huber, Hans-Peter: *See—*
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von Albedyll, Joachim; Wagner, Karl; and Huber, Hans-Peter, 3,631,778.
Huber, Hans-Peter, to Agfa-Gevaert Aktiengesellschaft. Control arrangement for copying apparatus. 3,640,619, 2-8-72, Cl. 355-36.
Huber, Hans-Peter, to Agfa-Gevaert Aktiengesellschaft. Photographic film pack. 3,650,751, 3-21-72, Cl. 96-76.
Huber, Hans-Peter, to Agfa-Gevaert Aktiengesellschaft. Photographic film pack. 3,698,303, 10-17-72, Cl. 95-22.000.
Huber, Helmut: *See—*
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Huber, Hugh Dana; and Edgren, Jack C., to Conenco International Limited, mesne. Anchorage system for stressing concrete. 3,685,934, 8-22-72, Cl. 425-111.000.
Huber, J. M., Corporation: *See—*
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Huber, Joel E., to Upjohn Company, The. Preparation of cortisone compounds and prednisone compounds. 3,699,136, 10-17-72, Cl. 260-397.450.
Huber, John F., to Unidynamics/Phoenix, Inc. Collision survival system. 3,675,942, 7-11-72, Cl. 280-150.0ab.
Huber, John Henry, to AMP Incorporated. Open barrel coaxial cable terminal. 3,699,504, 10-17-72, Cl. 339-177.00r.
Huber, Manfred; Klimek, Norbert; and Dee, Kenneth Herbert William, to English Numbering Machines Limited. High speed print mechanism with interposer arm for print hammer. 3,673,956, 7-4-72, Cl. 101-93.
Huber, Max; and Meier, Werner, to Sulzer Brothers Limited. Packing elements for materials-interchange column. 3,679,537, 7-25-72, Cl. 161-135.000.
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Huber, Ralph W.; Pellini, William S.; and Goode, Robert J., to United States of America, Navy. Method for improving the fracture toughness of metals and alloys. 3,645,803, 2-29-72, Cl. 148-127.
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Huber, Roy L. Automatically deployed occupant restriant system. 3,633,936, 1-11-72, Cl. 280-150.
Huber, Ulrich, to Varian Associates. Gyromagnetic resonance spectrometer utilizing an improved sample spinning and ejecting structure. 3,681,683, 8-1-72, Cl. 324-.50r.
Huber, Walter E., to Dayco Corporation. Endless track. 3,664,715, 5-23-72, Cl. 305-38.000.
Huber, Walter E., to Dayco Corporation. Endless track. 3,674,322, 7-4-72, Cl. 305-38.000.
Huber, William B., to Motorola, Inc. Indexing mechanism. 3,636,782, 1-25-72, Cl. 74-143.
Huber, William B., to Motorola, Inc. Cartridge adaptor. 3,662,123, 5-9-72, Cl. 179-100.2.
Huber, William B., to Motorola, Inc. Fast forward tape advance. 3,690,198, 9-12-72, Cl. 74-785.000.
Huber, William B., to Motorola, Inc. Magnetic tape reproducing device. 3,702,192, 11-7-72, Cl. 274-4.00a.
Huber, William B., to Motorola, Inc. Mounting arrangement for a magnetic tape head including a spherical cam follower and an arcuately shaped. 3,705,270, 12-5-72, Cl. 179-100.2ca.
Huber, William C., to United States of America, National Aeronautics and Space Administration. Foldable construction block. 3,665,669, 5-30-72, Cl. 52-594.000.
Huber, William C.; and Ritter, Dale L., said Huber assor. to United States of America, National Aeronautics and Space Administration. Foldable construction block. 3,702,520, 11-14-72, Cl. 52-284.000.

Huber, William R., III: *See—*
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Huber, William W.; and Dana, Richard L., to United States Ceramic Tile Company. Method for dry pressing ceramic tile. 3,671,618, 6-20-72, Cl. 264-120.000.

Huber, Wolfgang, to Diagnostic Data, Inc. Orgotein stabilized with saccharide, process and products. 3,637,640, 1-25-72, Cl. 260-115.

Huber, Wolfgang; and Schulte, Thomas L., to Diagnostic Data, Inc. Method of treating post-traumatic arthritis. 3,637,641, 1-25-72, Cl. 424-177.

Huber, Wolfgang, to Diagnostic Data, Inc. Orgotein isolation process employing single ion exchange resin having both acidic and basic groups. 3,687,927, 8-29-72, Cl. 260-113.000.

Huber-Emden, Helmut, to Ciba Limited. N-Acyl-3,4-dihydro-oxazine-(1,3) compounds for controlling phytopathogenic fungi. 3,678,046, 7-18-72, Cl. 260-244.00r.

Huber-Emden, Helmut; Eschle, Karl; and Macder, Arthur, to Ciba-Geigy AG. Phosphonic acid dialkyl esters. 3,679,779, 7-25-72, Cl. 260-943.000.

Hubert, Gustav, to Spectrol Electronics Corporation. Variable resistor having an improved wiper member. 3,652,970, 3-28-72, Cl. 338-174.

Hubert, Helmut, to Buderus'sche Eisenwerke. Peltier-effect heat pump. 3,635,037, 1-18-72, Cl. 62-3.

Hubert Industries Limited: *See—*
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Hubler, Robert, to Societe d'Etudes et de Developpement des Industries Modernes (S.E.D.I.M.). Device for the sealing of a rotatable shaft. 3,666,276, 5-30-72, Cl. 277-30.000.

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Hublou, Frank E.; and Lenox, Timothy L., to Kaiser Aluminum & Chemical Corporation. Schedule program for remote input management system. 3,633,213, 1-4-72, Cl. 444-1.

Hubner, Franz; and Jilek, Walter, to Vereinigte Osterreichische Eisen-und Stahlwerke Aktiengesellschaft. Apparatus for indicating the rise of liquid in a mold. 3,685,358, 8-22-72, Cl. 73-321.000.

Hubner, Gerhard; and Kainzmaier, Helmut, to Wacker-Chemie G.m.b.H. Process for continuously manufacturing vinyl esters. 3,646,077, 2-29-72, Cl. 260-410.9.

Hubner, Klaus: *See—*
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Hubner, Klaus; Prokert, Konrad; and Stolz, Werner, to VEB Fluorwerke Dohna. Threshold value dosage meter. 3,691,380, 9-12-72, Cl. 250-83.0cd.

Hubner, Kurt, to Ebauches Electroniques S.A. Electric time-piece. 3,672,154, 6-27-72, Cl. 58-23.0ba.

Hubner, Otto. Mechanically powered toothbrush. 3,685,080, 8-22-72, Cl. 15-22.00r.

Huboi, Robert W.; Waz, Edward M.; and Seckel, Thomas G., to Eastman Kodak Company. Correction level adjustment for video negative analyzer. 3,644,664, 2-22-72, Cl. 178-5.2.

Huboi, Robert W.; Riley, Terry E.; and Rising, Bradley D., to Eastman Kodak Company. Photographic printing system. 3,694,074, 9-26-72, Cl. 355-38.000.

Hubrich, Rudolf, to Rafi Raimund Finsterholzl Elektrotechnische Spezialfabrik. Magnetic keys. 3,668,596, 6-6-72, Cl. 338-32.

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Huchette, Paul V.; and Hall, Homer H., Jr., to Edgewater Corporation. Composite Belleville type springs and manufacture. 3,682,466, 8-8-72, Cl. 267-161.000.

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Huckenbeck, Otto. Steerable roller skate. 3,649,038, 3-14-72, Cl. 280-11.28.

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Huckstedt, Guido; and Tunze, Norbert. Foam flotation separation system particularly suitable for separating dissolved protein compounds and toxic metallic ions from aquarium water. 3,669,883, 6-13-72, Cl. 210-44.000.

Hudak, Ronald A.: *See—*
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Huddle, Carl F., to Tension Structures Co. Housing with cable suspended panels. 3,699,987, 10-24-72, Cl. 135-4.00r.

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Hudis, Michael I., to Rex Chainbelt Inc. Apparatus for installing reinforcing in plastic concrete. 3,678,816, 7-25-72, Cl. 94-39.000.
Hudnall, Frederick W., to Textron, Inc. Cover fastener. 3,648,559, 3-14-72, Cl. 85-7.
Hudson, Allan C.; Kinnear, John M.; and Havstad, Harold R. Nasal cannula. 3,643,660, 2-22-72, Cl. 128-206.
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Hudson, Earl A., to Reliance Paper & Bag Co. Method and apparatus for manufacturing flat, tubular wrappers. 3,677,144, 7-18-72, Cl. 93-1.00r.
Hudson, Edward C., Jr., to Hudson Corporation. Code authenticator. 3,643,064, 2-15-72, Cl. 235-61.7.
Hudson, Edward C., Jr., to Hudson Corporation. Method of fabricating a semiconductor magnetic transducer. 3,692,595, 9-19-72, Cl. 148-187.000.
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Hudson, Frederick W., to Xerox Corporation. Apparatus for controlling developer charge level. 3,641,981, 2-15-72, Cl. 118-637.
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Hudson, Perry B., to American Chemosol Corporation. Tobacco additive device. 3,677,269, 7-18-72, Cl. 131-134.000.
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Hudson, Robert B., to Monsanto Company. Process for preparing particulate products having preferentially internally concentrated core components. 3,650,961, 3-21-72, Cl. 252-99.
Hudson, Robert M.; Stoner, Dorald W.; and Stragand, George L., to United States Steel Corporation. Method for improving steel for carbonated beverage containers. 3,653,990, 4-4-72, Cl. 148-12.1.
Hudson, Robert M.; and Warning, Clair J., to United States Steel Corporation. Method for improving steel for carbonated beverage containers. 3,707,408, 12-26-72, Cl. 148-12.100.
Hudson, Ronald Augustus, to Imperial Chemical Industries Limited. Method of thermally processing a comestible product. 3,672,907, 6-27-72, Cl. 99-1.000.
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Hudson, Russell L.; Williams, Kenneth C.; and Smith, Martin B., to Ethyl Corporation. Mixed nitroso hydrocarbons. 3,647,777, 3-7-72, Cl. 260-143.
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Huebner, Werner P. E.; and Long, Robert G., to D. D. I. Communication, Inc. Multiplexer interval detector. 3,691,305, 9-12-72, Cl. 179-15.0aw.
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Hull, Leroy E.: *See—*
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Humphries, Darral V., to Bethlehem Steel Corporation. Seal for multi-wire strand. 3,639,201, 2-1-72, Cl. 161-143.
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Humphriss, Wesley D.; and Bartlett, Lawrence C., to Eastman Kodak Company. Barrier layers for electrophotographic elements containing a blend of cellulose nitrate with a tetrapolymer having vinylidene chloride as the major constituent. 3,640,708, 2-8-72, C. 96-1.5.
Humphriss, Wesley D.; and Bartlett, Lawrence C., to Eastman Kodak Company. Electrophotographic elements containing electrically conducting solid dispersions. 3,684,503, 8-15-72, Cl. 96-1.500.
Humphrye, Frederick Harold. Blow-molded pump-type dispenser. 3,648,902, 3-14-72, Cl. 222-207.
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Hunsicker, Paul Robert, to Commercial Mechanisms, Inc. Trajectory control mechanism for ball pitching machine. 3,640,262, 2-8-72, Cl. 124-7.
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Hunt, Charles d'A., to Airco, Inc. Method for continuous casting. 3,658,116, 4-25-72, Cl. 164-82.

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Hunt, Frederick B. Disposable rotary brush core and filament assembly for power sweepers. 3,649,985, 3-21-72, Cl. 15-179.
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Hunt, George H.; and Learn, Jonathan R., to Simplex Wire and Cable Company. Cross-linked polyolefin compositions. 3,632,680, 1-4-72, Cl. 260-45.9.
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Hunt, Jerry Donald: *See—*
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Hunt, John M.; and Dannatt, Hugh St. L., to Singer Company, The. Electrical circuit for impact contact keyboard. 3,679,038, 7-25-72, Cl. 197-98.000.
Hunt, Johnnie B., to Hunt, J. B., Company. Packaging compressible material. 3,694,992, 10-3-72, Cl. 52-24.000.
Hunt, Larry R.: *See—*
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Hunt, Mack W.; Rogers, Lynn C.; and Sias, Roy C., to Continental Oil Company. Thixotropic colloidal lead-containing composition. 3,661,777, 5-9-72, Cl. 252-33.
Hunt, Peter, to Rotax Limited. Dynamo electric machines. 3,689,786, 9-5-72, Cl. 310-58.000.
Hunt, Philip A., Chemical Corporation: *See—*
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Hunt, William B. Automatic ice cream freezer. 3,695,051, 10-3-72, Cl. 62-136.000.
Hunt, William Grayson. Programmed timer device and dispensing apparatus incorporating same. 3,643,836, 2-22-72, Cl. 222-70.
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Hunter, Brian C. Ground-stake animal tether. 3,658,037, 4-25-72, Cl. 119-121.
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Hunter, C Shelburn: *See—*
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Hunter, Calvin W., to Clark Equipment Company. Lateral shuttle device for material storage system. 3,664,534, 5-23-72, Cl. 214-730.
Hunter, Calvin W., to Clark Equipment Company. Transfer car guidance system. 3,675,589, 7-11-72, Cl. 104-247.000.
Hunter, Clarence S., to Eastman Kodak Company. Title backed photosensitive microfiche. 3,647,454, 3-7-72, Cl. 96-67.
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Hunter, Edward E., to Goodyear Tire & Rubber Company, The. Apparatus for tensioning fabric. 3,643,844, 2-22-72, Cl. 226-111.
Hunter, Edward E., to Goodyear Tire & Rubber Company, The. Cord tensioning device. 3,703,263, 11-21-72, Cl. 242-129.800.
Hunter, Edwin J.; Starrett, George H.; and Swing, Davison B. Apparatus for making plastic venetian blind tape. 3,682,752, 8-8-72, Cl. 156-552.000.
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Hunter, George Dwight; and Hook, Richard Wayne, to Deere & Company. Hydraulic depth control for drawn implement carriers having pivoted outer frames. 3,666,284, 5-30-72, Cl. 280-43.23.
Hunter, Gregory Michael, to RCA Corporation. Memory system including buffer memories. 3,699,533, 10-17-72, Cl. 340-172.500.
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Hunter, Jack A.; and Gilbert, Frederick W., to United States of America, Interior. Hot brine seeding technique to increase flashing efficiencies in multistage flash evaporators. 3,649,470, 3-14-72, Cl. 203-11.
Hunter, James H., to Upjohn Company, The. Process for preparing 5-halocyt osine-1-nucleosides. 3,651,044, 3-21-72, Cl. 260-211.5.
Hunter, James R.; Lazzarotti, Sebastion James; and Mann, Abe, to Burroughs Corporation. Transport and sorting mechanisms for an automatic conveyor. 3,674,143, 7-4-72, Cl. 209-74.000.
Hunter, James R.; Dinerman, Bernard B.; Mann, Abe; and Schroeder, Franklin T., to Burroughs Corporation. Conveyor system having a plurality of carrier position sensors. 3,696,946, 10-10-72, Cl. 214-11.00r.
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Hunter, Wesley L, to Ashland Oil, Inc. Process for the removal and concentration of a component gas from a multi-gaseous stream. 3,656,275, 4-18-72, Cl. 55-31.
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Hunter, William A., to Chrysler Corporation. Motor vehicle fuel tank venting. 3,698,160, 10-17-72, Cl. 55-385.000.
Hunter, William Allan, to Heatherwill Company. Method and apparatus for casting in molds radially displaced on rotating table. 3,703,921, 11-28-72, Cl. 164-130.000.
Hunter, William D., Jr.: *See*—
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Hunton, James Keith; Kelly, Wayne M.; and Takeuchi, James S., to GTE Sylvania Incorporated. Broadband planar balanced circuit. 3,678,395, 7-18-72, Cl. 325-446.000.
Hunts, Barney D.; and Lyon, William O., to Singer Company, The. Apparatus for rotating work for thin film deposition. 3,675,624, 7-11-72, Cl. 118-503.000.
Huntsinger, Dean P., to Collins Radio Company. All digital distance measuring equipment. 3,680,097, 7-25-72, Cl. 343-7.300.
Huntsinger, Dean P., to Collins Radio Company. Analog harmonic rejecting phase detector. 3,699,461, 10-17-72, Cl. 328-134.000.
Huntsinger, Fritz R.; and Hanes, James W. E., to Vetco Offshore Industries, Inc. Underwater wellhead electric connection apparatus for submerged electric motor driven well pumps and method of installation. 3,638,732, 2-1-72, Cl. 166-315.
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Huntzinger, Gerald O., to General Motors Corporation. Bistable throttle control system. 3,645,241, 2-29-72, Cl. 123-102.
Huntzinger, Gerald O.; and Sheldrake, Leonard J., to General Motors Corporation. Dual voltage charging system. 3,671,843, 6-20-72, Cl. 320-15.000.
Huntzinger, Gerald O., to General Motors Corporation. Bistable throttle control system. 3,704,382, 11-28-72, Cl. 307-233.000.
Huntzinger, Gerald O.; and Bassett, Norris J., to General Motors Corporation. Lamp failure indicator. 3,706,089, 12-12-72, Cl. 340-253.00n.
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Hunziker, Fritz; and Schmutz, Jean, to Sandoz Ltd.; a/k/a Sandoz AG. 2-Substituted-11-(4-methyl-1-piperizinyl)-dibenzo [b,f]-1,4-oxazapin-(4-oxide). 3,697,523, 10-10-72, Cl. 260-268.70r.
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Hupert, Adam. Clamping device. 3,663,004, 5-16-72, Cl. 269-157.
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Huret, Jacques Andre; and Huret, Roger Henri. Cycle gear change and cycles equipped with such gear change. 3,702,080, 11-7-72, Cl. 74-217.00b.
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Hurko, Bohdan; and Dills, Raymond L., to General Electric Company. Heat exchanger construction. 3,659,646, 5-2-72, Cl. 165-164.
Hurko, Bohdan; and Dills, Raymond L., to General Electric Company. Smooth surface electric cooktop. 3,674,983, 7-4-72, Cl. 219-462.000.
Hurlburt, Charles E., to Bendix Corporation, The. Performance monitor for a vertical gyro. 3,657,918, 4-25-72, Cl. 73-1.
Hurlburt, Charles E.; Lanni, Michael J.; and Fraenkel, Alphons, to Bendix Corporation, The. Oscillator type force measuring system insensitive to input voltage variations. 3,662,595, 5-16-72, Cl. 73-141.
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Hurlburt, Joseph C., to Sperry Rand Corporation. Mower blade sharpening means. 3,660,971, 5-9-72, Cl. 56-291.000.
Hurlburt, Joseph C., to Sperry Rand Corporation. Crop gathering and converging reel. 3,664,101, 5-23-72, Cl. 56-220.
Hurlburt, Joseph C.; McCarty, Horace G.; and Locati, Norman C., to Sperry Rand Corporation and Omark Industries, Inc. Blade mount for belt mower. 3,698,167, 10-17-72, Cl. 56-291.000.
Hurlburt, Joseph C., to Sperry Rand Corporation. Belt carried cutters and mounting means therefor. 3,699,757, 10-24-72, Cl. 56-291.000.
Hurlburt, Joseph C., to Sperry Rand Corporation. Tiltable steering system. 3,700,257, 10-24-72, Cl. 280-87.00a.
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Hurley, Forrest R.; Tecotzky, Melvin; and Vanik, Milton C., to Grace, W. R., & Co. Method for the preparation of uranium oxide sols. 3,691,087, 9-12-72, Cl. 252-301.10s.

Hurley, Frederick A., to Funtronics, Inc. Bird shoot game and the like. 3,637,212, 1-25-72, Cl. 273-85.
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Hurst, George S.; Thennard, Norbert; and Schneider, Karl A., to University of Kentucky Research Foundation, The, mesne. X-ray irradiation apparatus in which an X-ray source is energized upon the recording of irradiation dosage data. 3,679,902, 7-25-72, Cl 250-65.00r.
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Hurst, Mowatt M., to Malsbary Manufacturing Company. Automatic carwash apparatus. 3,650,281, 3-21-72, Cl. 134-58.
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Husa, Richard; and Stark, James A. Method for disinterring a casket. 3,669,614, 6-13-72, Cl. 21-2.000.
Husch, Robert L., to Interstate Foods Corporation. Apparatus for testing fatty acids content in edible oils and protective shipper therefor. 3,682,597, 8-8-72, Cl. 23-259.000.
Huschle, Peter; and Ettischer, Helmut, to Eastman Kodak Company. Resilient stop for a photographic shutter. 3,678,838, 7-25-72, Cl. 95-59.000.
Huse, Henry. Multi-stage vacuum pumping system. 3,642,384, 2-15-72, Cl. 417-205.
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Hussain, Anwar A., to American Home Products Corporation. Freeze dried echothiophate iodide compositions. 3,681,495, 8-1-72, Cl. 424-211.000.
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Hussauf, Walter. Pipe-spacing device for use in making wall-batteries of cold water and hot-water piping connections. 3,650,548, 3-21-72, Cl. 285-3.
Hussey, Joseph L., to Bonin, Pete J. Therapy table. 3,640,272, 2-8-72, Cl. 128-33.
Hussey, Norman R., to A & D Fabricating Company, Inc. Chemical feed pump with improved valve means. 3,661,167, 5-9-72, Cl. 137-269.5.
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Hustead, Ralph L. Rotary floor and table light. 3,707,625, 12-26-72, Cl. 240-81.0ba.
Husted, Royce Hill: *See—*
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Husten, Werner; and Siemensmeyer, Heinrich, to Hoesch Aktiengesellschaft. Combined three-sectional axial-radial roller turning connection. 3,652,141, 3-28-72, Cl. 308-174.
Husting, Liborius F. Garbage container and anchoring base. 3,679,161, 7-25-72, Cl. 248-154.000.
Huston, Charles W. Mason's guide for aligning building blocks. 3,698,089, 10-17-72, Cl. 33-86.000.

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Huszty, Denes; and Illenyi, Andras, to Elektroakusztikai Gyar. Sound radiator. 3,648,801, 3-14-72, Cl. 181-31.
Hutch, Frederick S.; and Phares, Bruce G., to Honeywell Inc. Multipoint recorder with solid state programmer. 3,665,414, 5-23-72, Cl. 340-172.5.
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Hutcheson, James L., to Reynolds Metals Company. Easy open pouch construction. 3,650,461, 3-21-72, Cl. 229-66.
Hutchings, Kenneth J., to Pacific Plantronics, Inc. Headset cradle. 3,654,404, 4-4-72, Cl. 179-146.
Hutchings, Leonard Henry, to Plessey Handel und Investments A.G. Touch-wire detection systems. 3,668,659, 6-6-72, Cl. 340-365.000.
Hutchings, Leroi E., to Universal Oil Products Company. Swing-bed guard chamber in hydrogenating and hydrorefining a coke-forming hydrocarbon charge stock. 3,696,022, 10-3-72, Cl. 208-57.000.
Hutchings, Paul D., Sr., to Hanchett Company. Balancing heads for dynamic balancing machines. 3,677,093, 7-18-72, Cl. 73-473.000.
Hutchins, Alma A. Rotary fluid device with axially expansible vane. 3,639,090, 2-1-72, Cl. 418-111.
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Hutchins, Samuel F. Apparatus for measuring and indicating the angular position of an antenna. 3,704,449, 11-28-72, Cl. 340-198.000.
Hutchins, Thomas B., IV. Low density dielectric coating for electrode in electron tube. 3,687,723, 8-29-72, Cl. 117-222.000.
Hutchinson, Charles A.; Henderson, Richard L.; and Schilling, Thomas L., to General Electric Company. Bypass valve control. 3,688,504, 9-5-72, Cl. 60-226.00r.
Hutchinson, Desmond Ernest; and Bickerdike, John David, to English Electric Company Limited, The. Measuring apparatus. 3,656,239, 4-18-72, Cl. 33-141.
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Hutchinson, Eric; and Hetheringto, Gordon, to Thermal Syndicate Limited. Electrical heating elements. 3,699,308, 10-17-72, Cl. 219-546.000.
Hutchinson, Francis Gowland, to Imperial Chemical Industries Limited. Gel polymerized polyurethane precursors and vinyl monomers. 3,700,752, 10-24-72, Cl. 260-859.00r.
Hutchinson, Frank J. Apparatus for loading bags with articles. 3,673,767, 7-4-72, Cl. 53-385.000.
Hutchinson, George M. Textile carrier. 3,650,494, 3-21-72, Cl. 242-118.61.
Hutchinson, Herman R.; Arpajian, Vasken F.; and Malcomson, Robert S., to Pennwalt Corporation. Injection molding process control. 3,642,402, 2-15-72, Cl. 425-144.
Hutchinson, Herman R.; Arpajian, Vasken F.; and Malcomson, Robert S., to Pennwalt Corporation. Time monitored injection molding process control apparatus. 3,695,800, 10-3-72, Cl. 425-146.000.
Hutchinson, Lawrence A.: *See—*
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Hutchinson, Thomas R.; and Lombard, Marco Hans, to Motorola, Inc. Housing assembly for miniature radio apparatus with self contained battery. 3,693,089, 9-19-72, Cl. 325-119.000.
Hutchinson, William Earl, to Stauffer-Wacker Silicone Corporation, mesne. Stabilized heat curable silicone elastomers. 3,647,741, 3-7-72, Cl. 260-37.
Hutchinson, William M., to Phillips Petroleum Company. Preparation of unsaturated fluorocompounds. 3,662,009, 5-9-72, Cl. 260-653.3.
Hutchinson, William M., to Phillips Petroleum Company. Process for separating halogenated hydrocarbons by gas-liquid separation with a solvent. 3,689,373, 9-5-72, Cl. 203-58.000.
Hutchinson, William M., to Phillips Petroleum Company. Process for separating halogenated hydrocarbons from a halogenated hydrocarbon-acetone mixture by water extractive distillation. 3,689,376, 9-5-72, Cl. 203-95.000.
Hutchinson, William Y.; and Kushmuk, Walter P., to Continental Scale Corporation. Weighing and height measuring device. 3,667,561, 6-6-72, Cl. 177-245.
Hutchinson, William Y.; and Kushmuk, Walter P., to Continental Scale Corporation. Weighing scale with conccalable dial. 3,703,935, 11-28-72, Cl. 177-124.000.
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Hutchison, Stanley O.; and Mc Kinnell, John C., to Chevron Research Company. Method and apparatus for removal of petroliferous adherent solids from an inaccessible surface. 3,637,021, 1-25-72, Cl. 166-302.
Hutchison, Stanley O., to Chevron Research Company. Through tubing well cleanout method using foam. 3,662,828, 5-16-72, Cl. 166-312.
Hutchison, Stanley O., to Chevron Research Company. Method for well cleanout. 3,700,034, 10-24-72, Cl. 166-312.000.
Huth, Gerald C., to General Electric Company. Silicon device having a lead-silicate thereon and method of forming the same. 3,669,731, 6-13-72, Cl. 117-201.000.
Huth, Gerald C.; and Davies, Robert L., to General Electric Company. Semiconductor devices with improved voltage breakdown characteristics. 3,697,829, 10-10-72, Cl. 317-235.00r.
Huth, Heinz. Flavouring material prepared from onion. 3,645,756, 2-29-72, Cl. 99-140.
Huth, Heinz, to Dragoco Spezialfabrik Kong, Riech-und Aroma-Stoffe Gerberding & Co., GmbH. Method for manufacturing practically sterile, concentrated aromas of spices, vegetables and mushrooms. 3,681,090, 8-1-72, Cl. 99-140.00r.
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Huthsing, Charles K., Jr. Valved head assembly for pressurized receptacles. 3,643,691, 2-22-72, Cl. 137-590.
Huthsing, Charles K., Jr. Dry chemical fire extinguisher structure. 3,648,778, 3-14-72, Cl. 169-30.
Huthsing, Charles K., Jr.; deceased (Huthsing, Evelyn N.; executor). Apparatus for manufacture of tubular projectiles. 3,653,240, 4-4-72, Cl. 72-82.
Huthsing, Charles K., Jr.; deceased (by Huthsing, N. Evelyn; executor). Pressure indicator. 3,703,879, 11-28-72, Cl. 116-70.000.
Huthsing, Evelyn N.: *See—*
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Huthwaite, John Alan, to Calmic Engineering Company Limited. Dryers and method of operation. 3,662,474, 5-16-72, Cl. 34-9.000.
Hutley, Ronald W. F., to Advanced Terminals, Inc. Apparatus for stacking fan folded paper. 3,640,521, 2-8-72, Cl. 270-61.
Hutner, Mark A.; Polit, Neil A.; Watson, Donald W; and Artelt, Herbert C., Jr., to Xerox Corporation. Electrophotographic printing systems. 3,700,324, 10-24-72, Cl. 355-6.000.
Hutner, Mark A., to Elco Corporation, mesne. Automatic stop circuit for motion picture projector. 3,704,999, 12-5-72, Cl. 352-92.000.
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Hutson, Thomas, Jr.; and Carter, Cecil O., to Phillips Petroleum Company. Conversion of hydrocarbons. 3,679,771, 7-25-72, Cl. 260-676.00r.
Hutt, Thomas Gough. Method of making synthetic-resin foils with paper-like characteristics. 3,639,554, 2-1-72, Cl. 264-95.
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Hutter, Harold G.; and Zerlin, William Max Erich, to Bunker-Ramo Corporation, The. Connector element and method for element assembly. 3,646,502, 2-29-72, Cl. 339-89.
Hutter, James Francis; and Kelly, Leonard, to Sphere Investments Limited. Method of and apparatus for sorting ores. 3,701,419, 10-31-72, Cl. 209-111.800.
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Hutto, Edgar, Jr.; and Mahoney, James P., to RCA Corporation. Bowling pin detector. 3,651,328, 3-21-72, Cl. 250-222.
Hutto, John F., to Phillips Petroleum Company. Solvent extraction process. 3,634,537, 1-11-72, Cl. 260-681.5.
Hutton, Duane A.; and Hutton, Wallace, 1/3 to Jacobson, John L. Hay distributor. 3,656,638, 4-18-72, Cl. 214-83.14.
Hutton, Duane A.; and Hutton, Michael. Wire tightener. 3,704,858, 12-5-72, Cl. 254-81.000.
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Hutz, Gerhard; and Muller, Karl, to Siempelkamp, G., & Co. Discharge device for platen press. 3,690,801, 9-12-72, Cl. 425-229.000.
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Huyssen, Phillip H. Rider-propelled vehicle. 3,647,241, 3-7-72, Cl. 280-221.
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Hyde, James A., to Nalco Chemical Company. Silicone oil antifoam. 3,700,587, 10-24-72, Cl. 208-131.000.
Hyde, James Franklin; and Spielvogel, David E., to Dow Corning Corporation. Cyclotetrasiloxanes which impart alteration of genital function in mammals. 3,652,628, 3-28-72, Cl. 260-448.2.
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Inaba, Seiuemon; Yoshitake, Norito; Imazeki, Ryoji; and Kozai, Yoshinori, to Fujitsu Limited. Time shared numerical controller for simultaneous control of a plurality of machine tools. 3,636,525, 1-18-72, Cl. 340-172.5.

Inaba, Seiuemon; and Kobayashi, Kengo, to Fujitsu Limited. Tool selection system. 3,657,627, 4-18-72, Cl. 318-601.

Inaba, Seiuemon; Shimizu, Kanryo; and Hashimoto, Yoshihiro, to Fujitsu Limited. Numerical control system for eliminating pitch error and backlash of the feeding mechanism. 3,668,377, 6-6-72, Cl. 235-151.11.

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Inaba, Shigeho; Akatsu, Mitsuhiro; and Yamamoto, Hisao, to Sumitomo Chemical Company, Ltd. 1-Hydroxyalkyl-2-aminomethylindole derivatives. 3,674,808, 7-4-72, Cl. 260-326.150.
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Inada, Masmi; and Hayashi, Tatsuo, to Aisin Seiki Company Limited. Automotive wheel anti-skid mechanism. 3,685,867, 8-22-72, Cl. 303-21.00f.
Inaga, Katsu; and Miura, Yotaro, to Sony Corporation. Guide plate for use with a tape record/playback mechanism. 3,688,055, 8-29-72, Cl. 179-100.200.
Inaga, Katsu; and Miura, Yotaro, to Sony Corporation. Tape loop forming and threading mechanism for use with a magnetic recording and reproducing apparatus. 3,702,383, 11-7-72, Cl. 179-100.20t.
Inagaki, Junpei; and Marumo, Hitoshi, to Tokyo Shibaura Electric Co., Ltd. Electric synchronous machine having a comb-shaped pole type rotor. 3,656,017, 4-11-72, Cl. 310-90.
Inagaki, Junpei, to Tokyo Shibuara Electric Co., Ltd. Linear comb-shaped synchronous motor. 3,706,922, 12-19-72, Cl. 318-135.000.
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Inagaki, Takefumi, to Fujitsu Limited. Method and apparatus for producing holograms utilizing a plurality of short focus convex lenses. 3,692,380, 9-19-72, Cl. 350-3.500.
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Inamdar, Sayed-Ibrahim S., to Bechtel International Corporation, mesne. Ground fault detection circuit. 3,696,367, 10-3-72, Cl. 340-255.000.
Inami, Akira,; Shida, Sankichi; and Haga, Mikio, to Matsushita Electric Industrial Co., Ltd. Electric contact grease. 3,632,509, 1-4-72, Cl. 252-33.3.
Inamine, Seiei: *See—*
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Inamine, Shigeo: *See—*
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Inamorato, Jack Thomas, to Colgate-Palmolive Company. Ternary foam control systems with amines or amides and detergent compositions containing same. 3,696,056, 10-3-72, Cl. 252-525.000.
Inamorato, Jack Thomas, to Colgate-Palmolive Company. Ternary foam control composition and built anionic detergent composition containing same. 3,704,267, 11-28-72, Cl. 252-524.000.
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Inaoka, Kazuyoshi: *See—*
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Indjian, Arpe G. Egg laying toy fowl. 3,660,930, 5-9-72, Cl. 46-117.

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Ingalls, James E. Method of and apparatus for applying labels to articles or packages. 3,676,257, 7-11-72, Cl. 156-351.000.
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Ingersoll, Henry Gilbert, to Du Pont de Nemours, E. I., and Company. Magnetic recording elements containing stabilized chromium dioxide, a polyurethane binder, and an isocyanate hardening agent. 3,649,541, 3-14-72, Cl. 252-62.54.
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Ingerson, Paul G., to TRW Inc. Modulated arm width spiral antenna. 3,681,772, 8-1-72, Cl. 343-895.000.
Ingerson, Paul G., to University of Illinois Foundation. Log-periodic scaled directional coupler feed line for antennas. 3,696,438, 10-3-72, Cl. 343-792.500.
Ingerson, Paul G.; and Mayes, Paul E., to University of Illinois Foundation. Modulated impedance feeding system for logperiodic antennas. 34,633,207, 1-4-72, Cl. 343-770.
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Ingham, Robert M., Jr., to Deering Milliken Research Corporation. Drafting apparatus. 3,670,367, 6-20-72, Cl. 19-255.
Ingham, William Ellis; Symons, Michael; and Murden, Peter, to Electric & Musical Industries Limited. Pattern recognition device in which allowance is made for pattern errors. 3,643,215, 2-15-72, Cl. 340-146.3.
Ingimarsson, Bjorn Rafnar. Screwdriver with non-slip bit coating means. 3,656,522, 4-18-72, Cl. 145-50.
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Inglis, Hugh Stewart, to Imperial Chemical Industries Limited. Prins-type reactions. 3,644,428, 2-22-72, Cl. 260-345.1.
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Ingmarson, Martin, to Kooperativa forbundet ekonomisk forening. Method and machine for packaging goods. 3,672,116, 6-27-72, Cl. 53-3.000.
Ingold, Werner, to Proton AG. Measuring instrument equipped with removable measured value transmitter probe. 3,691,846, 9-19-72, Cl. 73-432.00r.
Ingram, Brian, to Girling Limited. Two pedal hydraulic braking system. 3,640,067, 2-8-72, Cl. 60-54.6.
Ingram, Brian, to Girling Limited. Hydraulic braking systems for vehicles. 3,678,688, 7-25-72, Cl. 60-54.60r.
Ingram, Brian; Spence, Douglas Roy; and Cochrane, Robin Adam, to Girling Limited. Hydraulic systems for vehicles. 3,690,738, 9-12-72, Cl. 303-21.00f.
Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, to Girling Limited. Actuator assemblies for hydraulic braking systems. 3,694,038, 9-26-72, Cl. 303-21.00f.
Ingram, Brian; and Harries, David Anthony, to Girling Limited. Hydraulic actuating systems. 3,703,079, 11-21-72, Cl. 60-54.50e.
Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, to Girling Limited. Hydraulic systems for vehicles. 3,703,319, 11-21-72, Cl. 303-21.00f.
Ingram, Brian; Harries, David A.; and Phoenix, Lancelot, to Girling Limited. Actuator assemblies for hydraulic braking systems. 3,704,044, 11-28-72, Cl. 303-21.00f.
Ingram, Carey. Automatic free-fall oceanographic temperature probe. 3,656,345, 4-18-72, Cl. 73-170.00r.
Ingram, Clarence E.; and Warriner, Louis T. Alarm device utilizing fishing reel ratchet mechanism. 3,686,852, 8-29-72, Cl. 58-21.150.
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Ingram, David John; and Maillardet, Frederick James, to General Electric and English Electric Companies, Limited, The. Winch arrangements. 3,675,794, 7-11-72, Cl. 214-13.000.
Ingram, Gordon B., to Adair, Michael H. and Reeves, Rosser S., II[1]; in care of Tiderock Corporation, mesne. Bolt handle and pistol grip magazine for an automatic firearm. 3,651,736, 3-28-72, Cl. 89-132.
Ingram, John Anthony, to National Research Development Corporation. Carrier devices for shoulder-strap support on the back. 3,679,108, 7-25-72, Cl. 224-8.00r.
Ingram, John D., to Schlumberger Technology Corporation. Acoustic reflection coefficient logging. 3,697,937, 10-10-72, Cl. 340-15.50a.
Ingram, Maurice S. Lathe tool holder. 3,691,883, 9-19-72, Cl. 82-34.00r.
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Ingrey, Sidney Ivor Joseph, to Northern Electric Company Limited. Information on a layer of orthoferrite with an electron beam. 3,701,115, 10-24-72, Cl. 340-173.0cr.
Ingulli, Alfred F.; and Alter, Henry L., to Uniroyal, Inc. Thermoplastic resin blend of polysulfone with ABS. 3,636,140, 1-18-72, Cl. 260-876.
Ingvartsen, Arne. Releasable corner joint arrangement for stacking frames for loading pallets. 3,643,988, 2-22-72, Cl. 287-53.5.
Ingvorsen, Helmuth. Substrate-containing test container for the cultivation and inspection of micro organisms. 3,701,717, 10-31-72, Cl. 195-139.000.
Inhelder, Allen E., to Cross, J. W., Co. Cabinet construction. 3,694,047, 9-26-72, Cl. 312-234.000.
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Inman, Clarence D. Floating marine marker. 3,660,855, 5-9-72, Cl. 9-8.
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Inman, Eric Richard; Macpherson, Ian Alexander; and Stirling, John Andrew, to Ciba-Geigy AG. Azomethine pigments. 3,700,709, 10-24-72, Cl. 260-438.100.
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Inoue, Noboru, to Yugen Kaisha Hayashi Shika Shoten. Instrument of probing the length of a root canal of the tooth. 3,660,901, 5-9-72, Cl. 32-40.
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Irvine, Chester A., to Chatham Container Display Corporation. Hole shield. 3,692,084, 9-19-72, Cl. 160-368.000.
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Irvine, John A., to Molins Machine Company Limited. Temperature-control apparatus. 3,637,984, 1-25-72, Cl. 219-471.
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Irwin, Arthur S., to TRW Inc. Heat transfer bearing mounting. 3,645,593, 2-29-72, Cl. 308-189.
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Irwin, Carl Francis, to Du Pont de Nemours, E. I., and Company. Tris(isocyanatotolyl) isocyanurate-tolylene diisocyanate complexes. 3,666,725, 5-30-72, Cl. 260-75.
Irwin, Charles B., Jr. Means for attaching goggles to helmets. 3,703,750, 11-28-72, Cl. 24-265.00r.
Irwin, George, to Imperial Camera Corporation. Flash lamp actuating structure. 3,665,827, 5-30-72, Cl. 95-11.50r.
Irwin, George, to Imperial Camera Corporation. Double exposure mechanism for cameras. 3,688,671, 9-5-72, Cl. 95-31.0fl.
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Irwin, John W., to International Business Machines Corporation. Intra-record resynchronization in digital recording systems. 3,641,534, 2-8-72, Cl. 340-174.1.
Irwin, John W., to International Business Machines Corporation. Microprogrammable I/O controller. 3,654,617, 4-4-72, Cl. 340-172.5.
Irwin, Malcolm F., to Techniservice Corporation. Splicing of textile strands. 3,643,[illegible] 2-22-72, Cl. 57-142.

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Irwin, Winfield T., to PPG Industries, Inc. Resilient, fire-resistant article. 3,670,348, 6-20-72, Cl. 5-345.000.
Isaac, Anthony Leonard, to Thorn Electronics Limited. Lighting control apparatus with a signal switching matrix. 3,668,467, 6-6-72, Cl. 315-292.000.
Isaac, George L.: *See—*
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Isaac, George L.; Kingsbury, Richard F.; and Surak, John G., to Signetics Corporation. Apparatus for testing circuit packages. 3,701,021, 10-24-72, Cl. 324-158.00f.
Isaac, Olivier, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Hydrostatic transmission control. 3,650,108, 3-21-72, Cl. 60-53.
Isaac, Olivier, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Variable ratio hydrostatic transmissions. 3,672,166, 6-27-72, Cl. 60-53.00r.
Isaac, Peter. Ski and boot relative force indicators. 3,631,715, 1-4-72, Cl. 73-133.
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Isaacs, Robert O.: *See—*
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Isaacson, Max; and Smilg, Benjamin, to Vibrodyne, Inc. Vibratory apparatus. 3,643,384, 2-22-72, Cl. 51-163.
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Isaacson, Robert B., to Celanese Corporation. Porous article. 3,666,517, 5-30-72, Cl. 117-7.000.
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Isaksson, Sven-Erik, to Allmanna Svenska Elektriska Aktiebolaget. Furnace for sintering powder. 3,703,278, 11-21-72, Cl. 266-24.000.
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Isard, Arsene: *See—*
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Isbell, Willard D., to Cubic Corporation. Film transport unit. 3,643,891, 2-22-72, Cl. 242-189.
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Ische, Friedrich: *See—*
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Iseli, Hans, to Vereinigte Drahtwerke A.G. Method for the fabrication of nail plates and apparatus for the performance of the aforeside method. 3,694,288, 9-26-72, Cl. 156-269.000.
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Ishibashi, Wataru. Method of refining waste oils. 3,682,807, 8-8-72, Cl. 204-188.000.
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Ishida, Akio: *See—*
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Ishida, Masao. Assembly kit for making a decorative drawing board. 3,680,225, 8-1-72, Cl. 35-26.000.
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Ishida, Mitsuo. Safety valve for aerosol containers. 3,638,840, 2-1-72, Cl. 222-402.24.
Ishida, Mitsuo. Pressure-fluid spray device with pressure indicator. 3,656,659, 4-18-72, Cl. 222-49.
Ishida, Moriyoshi; Hori, Terutsugu; Otsuka, Yuzuru; Sato, Kunimitsu; Inoue, Katsuyuki; and Ogata, Yoshio, to Ajinomoto Co., Inc. Method of recovering lysine from a fermentation broth. 3,702,341, 11-7-72, Cl. 260-527.00n.
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Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; Kurita, Kunio; Ohki, Hayashi; Sato, Kunio; Nagamatsu, Kazuo; and Tokushige, Akira, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for the preparation of polyoxymethylene. 3,654,228, 4-4-2, Cl. 260-67.
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Ishida, Takashi, to Mikuni Kogyo Co., Ltd. Fuel supply system for internal combustion engines. 3,695,245, 10-3-72, Cl. 123-140.0mc.
Ishida, Takuo. Hand control device for speed change gear mechanism of a bicycle. 3,633,437, 1-11-72, Cl. 74-489.
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Ishihara, Yasushi; and Watanabe, Shigeru, to Nippon Concrete Industries Co., Ltd. Method of constructing continuous wall by use of piles or pile sheets and apparatus therefor. 3,657,896, 4-25-72, Cl. 61-53.5.
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Ishii, Jiro: *See—*
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Ito, Masaharu, to Canon Kabushiki Kaisha. Interchangeable lens capable of change over between automatic and manual stop operations. 3,687,047, 8-29-72, Cl. 95-64.00d.

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Ito, Mikiji; Yamada, Kenji; and Noda, Kazuo, to Nippondenso Kabushiki Kaisha. Exhaust emission purifying device. 3,654,763, 4-11-72, Cl. 60-294.

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Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. Automatic shift control system for automatic transmission. 3,650,161, 3-21-72, Cl. 74-866.

Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. System for controlling the shift point of fluid controlled automatic transmission for vehicles. 3,657,934, 4-25-72, Cl. 74-861.

Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. Automatic shift control system for an automatic transmission for vehicles. 3,667,325, 6-6-72, Cl. 74-866.000.

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Ito, Shin; and Kubo, Seitoku. Automatic shift control system for automatic transmission. 3,680,411, 8-1-72, Cl. 74-866.000.

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Itoh, Akira. Cord hangers for hoist. 3,704,350, 11-28-72, Cl. 191-12.00r.
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Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoti, Kenro; and Endo, Takaya, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide photographic emulsions containing yellow couplers. 3,669,671, 6-13-72, Cl. 96-100.000.

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Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoto, Kenro; and Endo, Takaya, to Komishiroku Photo Industry Co., Ltd. Light-sensitive color-photographic emulsions. 3,694,214, 9-26-72, Cl. 96-100.000.

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Iwami, Akira, to Mitsui Shipbuilding and Engineering Co., Ltd. Container supporting apparatus for container ship. 3,654,887, 4-11-72, Cl. 114-72.

Iwami, Ichiro; Honda, Toshio; and Fukuura, Yukio, to Bridgestone Tire Company Limited. Process for adhering a polyester fibrous material with a rubber. 3,673,022, 6-27-72, Cl. 156-166.000.

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Iwamoto, Minoru, to Ricoh Co., Ltd. Device for electrophotocopying machines for detecting whether a usable length of copy paper is left on a roll thereof. 3,675,228, 7-4-72, Cl. 340-259.000.

Iwamoto, Minoru, to Kabushiki Kaisha Ricoh. Device for detecting the end of a roll of copy paper in a photocopying machine or the like. 3,682,543, 8-8-72, Cl. 355-13.000.

Iwamoto, Shunsuke; and Kawasaki, Ryohei, to Omron Tateisi Electronics Co. Apparatus for detecting traffic information. 3,675,195, 7-4-72, Cl. 340-38.00l.

Iwamoto, Takeaki: *See—*
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Iwano, Haruhiko; and Shimamura, Isao, to Fuji Photo Film Co., Ltd. Photographic processing for photographing silver halide light-sensitive elements. 3,649,281, 3-14-72, Cl. 96-66.5.

Iwano, Haruhiko; and Shimamura, Isao, to Fuji Photo Film Co., Ltd. Hardening process for photographic light sensitive elements. 3,677,760, 7-18-72, Cl. 96-50.0pt.

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Iwao, Norito; Ito, Akira; Maeda, Minoru; Kawaguchi, Tadashi; and Nobukuni, Nakano, to Yawata Iron & Steel Co., Ltd. Method of controlling the exhaust gas flow volume in an oxygen top-blowing converter. 3,653,650, 4-4-72, Cl. 266-35.

Iwao, Norito; Naito Koichiro; Kawaguchi, Tadashi; Maeda, Minoru; and Norita, Toshihito, to Nippon Steel Corporation. Method for controlling the treatment of exhaust gases in oxygen top-blowing converter. 3,681,052, 8-1-72, Cl. 75-60.000.

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Iwaoka, Seijiro; and Mori, Hiroo, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Brake and clutch control for industrial track. 3,705,643, 12-12-72, Cl. 192-13.00a.

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Iwasaki, Koichiro; Yamaguchi, Kazuo; Kakogawa, Genjiro; Ohtsuka, Yasuo; and Kasahara, Kanji, to Mitsubishi Chemical Industries Limited. Process for the polymerization of olefins. 3,642,748, 2-15-72, Cl. 260-88.2.

Iwasaki, Koichiro; Yamaguchi, Kazuo; Kimura, Harutaka; Hasuo, Masayoshi; and Tanaka, Toru, to Mitsubishi Chemical Industries Limited. Process for the polymerization of olefins. 3,674,764, 7-4-72, Cl. 260-88.20r.

Iwasaki, Masahiro; Goto, Nobuyuki; Fujisaki, Hiroya; and Niwa, Kunihiko, to Tokyo Shibaura Electric Co., Ltd. Speech articulation frequency modulation communication system. 3,667,047, 5-30-72, Cl. 325-45.000.

Iwasaki, Masahiro; Goto, Nobuyuki; Fujisaki, Hiroya; and Niwa, Kunihiko, to Tokyo Shibaura Electric Co., Ltd. Frequency modulation communication system. 3,678,390, 7-18-72, Cl. 325-46.000.

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Iwashita, Akira; Tsunokawa, Tamio; and Yuyama, Masahiro, to Sumitomo Chemical Company, Ltd. Method for stabilizing acrylamide. 3,699,081, 10-17-72, Cl. 260-561.00n.
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Jablin, Richard; and Leister, Robert G., to Wood, Allan, Steel Company. Drag wipe. 3,672,595, 6-27-72, Cl. 242-75.200.
Jablon, Theodore M.; and Raynor, Russell C., to Dorr-Oliver Incorporated. Continuous sedimentation tank with center-pier supported sediment raking apparatus. 3,704,789, 12-5-72, Cl. 210-531.000.
Jabloner, Harold: *See*—
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Jablonski, Edward R., to Mc-Graw Edison Company. Luminaire. 3,654,453, 4-4-72, Cl. 240-25.
Jablonski, Werner L., to Dow Chemical Company, The. Foamable thermoplastic polymer granules and method for making. 3,663,466, 5-16-72, Cl. 260-2.5.
Jabsen, Felix S., to Babcock & Wilcox Company, The. Nuclear fuel rod supporting arrangements. 3,665,586, 5-30-72, Cl. 29-428.
Jabsen, Felix S. Welding nozzle. 3,688,079, 8-29-72, Cl. 219-136.000.
Jacaway, William Arthur, Jr.: *See*—
Armbruster, Frederick Carl; and Jacaway, William Arthur, Jr., 3,640,847.
Jaccard, Andre Robert, to Jaccard Corporation. Meat pressing apparatus. 3,648,600, 3-14-72, Cl. 100-224.
Jaccard, Andre Robert, to Jaccard Corporation. Method of guiding piercing instruments. 3,651,541, 3-28-72, Cl. 17-45.
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Jaccodine, Ralph James, to Bell Telephone Laboratories, Incorporated. Method of forming closely spaced conductive layers. 3,693,251, 9-26-72, Cl. 29-625.000.
Jachacz, Edmund A.: *See*—
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Jachimek, Thomas P.; and Wrabel, James A., to Seeburg Corporation of Delaware, The. Pulse generator. 3,665,208, 5-23-72, Cl. 307-106.
Jachimek, Thomas P.; and Murrell, Thomas A., to Seeburg Corporation of Delaware, The. Selecting apparatus and method for phonograph. 3,701,970, 10-31-72, Cl. 340-162.000.
Jachimek, Thomas P.; and Mulford, Jack A., to Seeburg Corporation of Delaware, The. Arrangement for translating a train of pulses into logic words. 3,705,423, 12-5-72, Cl. 340-347.0dd.
Jachimowica, Ludwik; Reasoner, Edwin W.; and Olszewski, Jerzy A., to General Cable Corporation. Electrical conductor with paper insulation. 3,662,091, 5-9-72, Cl. 174-110.
Jachimowicz, George A.; Minatelli, Mark A.; and Preston, Harold M., to General Mills Chemicals, Inc. Epoxy resin adhesive containing a polymeric fatty-amido amine and monomeric fatty-amido amine mixture as the curing agent. 3,666,695, 5-30-72, Cl. 260-18.
Jachimowicz, Ludwik; and Olszewski, Jerzy A., to General Cable Corporation. Watertight disc coaxial cable. 3,660,589, 5-2-72, Cl. 174-28.
Jacisin, Joseph Michael; and Tropello, Sam Duane, 1/2 each to Bell Telephone Laboratories, Incorporated and Western Electric Company, Incorporated. High-pressure packing gland. 3,697,089, 10-10-72, Cl. 277-35.000.
Jack, David: *See*—
Harcourt, David N.; and Jack, David, 3,642,993.
Hartley, David; Lunts, Lawrence H. C.; and Jack, David, 3,644,520.
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Jack, David; Hartley, David; and Lunts, Lawrence Henry Charles, to Allen & Hanburys Limited. Phenethylamine derivatives. 3,689,524, 9-5-72, Cl. 260-471.00a.
Jack, James; Drake, John; Thompson, David Crompton; and Harris, Frederick John, to Imperial Chemical Industries Limited and Scottish Agricultural Industries Limited. Fertilizer compositions. 3,679,391, 7-25-72, Cl. 71-64.00e.
Jack, Ronald H., to Teletype Corporation. Self-testing insertion tool and methods of inserting workpieces. 3,670,388, 6-20-72, Cl. 29-244.000.
Jack, William, Jr. Golf putting practice device. 3,685,833, 8-22-72, Cl. 273-176.0fa.
Jack-O-Line Corporation: *See*—
O'Brien, John C., 3,678,974.

Jacke, Stanley E., to Branson Instruments, Incorporated. Sonic dispersing apparatus. 3,645,504, 2-29-72, Cl. 259-2.
Jacke, Stanley E., to Branson Instruments, Incorporated. Ultrasonic processing apparatus. 3,698,408, 10-17-72, Cl. 134-122.000.
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Jackisch, Philip F., to Ethyl Corporation. Preparation of amino-substituted carboxylic acids. 3,642,887, 2-15-72, Cl. 260-534.
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Jacknow, Burton B.; and Moriconi, Joseph H., to Xerox Corporation. Imaging system. 3,653,893, 4-4-72, Cl. 96-1.4.
Jackovitz, John F.; and Langer, Alois, to Westinghouse Electric Corporation. Preparation of battery plates with iron oxides having a fused coating. 3,650,835, 3-21-72, Cl. 136-25.
Jacks, Thomas J.: *See*—
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Jackson, Albert Edward; and Russell, Robert Gordon. Apparatus for delivering metered quantities of powdered material towards a point of use. 3,659,751, 5-2-72, Cl. 222-194.
Jackson, Albert Edward; and Hughes, Phillip Haydn, to Summers, John, & Sons Limited. Method of coating a moving metal strip. 3,661,612, 5-9-72, Cl. 117-22.
Jackson, Albert Edward, to Summers, John, & Sons Limited. Method of producing a metallic length. 3,681,062, 8-1-72, Cl. 75-208.0cs.
Jackson, Aldrich L., to Dynasort Corporation. Silverware washing and handling apparatus. 3,682,184, 8-8-72, Cl. 134-63.000.
Jackson, Aldrich L., to Dynasort Corporation. Silverware washing and handling apparatus. 3,687,264, 8-29-72, Cl. 198-33.0aa.
Jackson, Andrew D., Jr., 35% to Pohl, Lee W. and 25% to Carinhas, Jack G., Jr. Bilge scavenger. 3,643,802, 2-22-72, Cl. 210-172.
Jackson, Billy G., to Lilly, Eli, and Company. Cephalosporin compositions. 3,671,449, 6-20-72, Cl. 252-182.000.
Jackson, Billy G., to Lilly, Eli, and Company. Process for preparing cephalosporin compounds. 3,694,437, 9-26-72, Cl. 260-243.00c.
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Jackson, Bruce W., to Du Pont de Nemours, E. I., and Company. Chain transfer linked urethane graft copolymers. 3,689,593, 9-5-72, Cl. 260-859.000.
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Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,648,858.
Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,675,900.
Dickmann, John L.; and Flick, Howard S., 3,635,105.
Geczy, Bela; and Wilms, Carl Alfred, 3,691,875.
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Langowski, Faustyn C., 3,695,669.
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Jackson, Carl Thomas, to True Temper Corporation. Fiber glass reinforced golf shaft. 3,646,610, 2-29-72, Cl. 273-80.
Jackson, Carl Thomas, to True Temper Corporation. Apparatus for producing fiber glass articles. 3,676,258, 7-11-72, Cl. 156-392.000.
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Jackson, Charles L., to Signatron, Inc. Alarm system using coded signalling. 3,701,019, 10-24-72, Cl. 325-64.000.
Jackson, Clive G. B., to Bendix Corporation, The. Dual-element centrifugal pump pressure responsive flow regulator means. 3,658,440, 4-25-72, Cl. 417-62.
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Jackson, David B., to Hercules Incorporated. Adjustable beater bar. 3,684,142, 8-15-72, Cl. 225-97.000.
Jackson, David H. Pitch-changing tuning device for string instruments. 3,688,631, 9-5-72, Cl. 84-312.000.
Jackson, David L., to Thomas & Betts Corporation. Method of making a series of electrical connections. 3,643,327, 2-22-72, Cl. 29-628.
Jackson, David L. Underwater dye-marker release mechanism. 3,670,692, 6-20-72, Cl. 116-124.00b.
Jackson, Dennis B., to Wiltshire Cutlery Company Proprietary Limited. Knife scabbard or holder. 3,676,961, 7-18-72, Cl. 51-214.000.
Jackson, Dennis E.; and Rustin, Francis R., to Naremco, Inc. Flow proportioning device and magnetically operated valve therefor. 3,656,506, 4-18-72, Cl. 137-414.
Jackson, Donald N. Boat hulls. 3,698,342, 10-17-72, Cl. 114-66.50r.
Jackson, Donald Richard Patrick. Apparatus for wrapping articles of a shape of thin rectangular parallelopipeds. 3,685,249, 8-22-72, Cl. 53-133.000.
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Jackson, Frederick E. Disposable catheter apparatus. 3,648,704, 3-14-72, Cl. 128-349.
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Jackson, George E., to Union Carbide Corporation. Apparatus and method for warp knitting a simulated woven fabric. 3,665,733, 5-30-72, Cl. 66-87.
Jackson, George E., to Union Carbide Corporation. Simulated-weave, warp-knit fabric, and method for making the same. 3,675,447, 7-11-72, Cl. 66-192.000.
Jackson, George E. Sheer warp knit garment and method for making same. 3,685,319, 8-22-72, Cl. 66-87.00r.
Jackson, George E., to Union Carbide Corporation. Foundation garment and method of making same. 3,703,820, 11-28-72, Cl. 66-177.000.
Jackson, George Edward, to Union Carbide Corporation. Warp knitted garments and apparatus and method for making the same. 3,656,324, 4-18-72, Cl. 66-177.
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Jackson, George W., to Hydro Flame Corporation. Wall-mounted fluid-fuel furnace. 3,662,735, 5-16-72, Cl. 126-85.
Jackson, George W.; and Whelan, James E., to General Motors Corporation. Engine cam operated air compressor for vehicle leveling system. 3,671,150, 6-20-72, Cl. 417-395.000.
Jackson, George W.; Long, Paul J., Jr.; and Fannin, Wayne V., to General Motors Corporation. Energy absorbing bumper system. 3,700,273, 10-24-72, Cl. 293-70.000.
Jackson, Harold Ernest, to Petrol Injection Limited. Fuel injection systems. 3,650,258, 3-21-72, Cl. 123-139.
Jackson, Harold Ernest, to Petrol Injection Limited. Fuel injection systems. 3,683,870, 8-15-72, Cl. 123-32.0ea.
Jackson, Harold Ernest, 1/2 to Petrol Injection Limited. Fuel supply systems. 3,685,503, 8-22-72, Cl. 123-127.000.
Jackson, Harold Ernest, to Petrol Injection Limited. Fuel injection nozzles. 3,685,742, 8-22-72, Cl. 239-407.000.
Jackson, Harold Ernest, to Petrol Injection Limited. Fuel injector devices. 3,695,518, 10-3-72, Cl. 239-533.000.
Jackson, Harold G. Leveling device. 3,665,536, 5-30-72, Cl. 14-71.
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Jackson, Henry G.: *See*—
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Jackson, Hosea: *See*—
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Jackson, Howard Rodney, to International Computers Limited. Data storage systems. 3,676,857, 7-11-72, Cl. 340-172.500.
Jackson, Jack M.: *See*—
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Jackson, James A., to Standard Oil Company (Indiana). Process for removal of aromatic bromine in benzoic acid production. 3,642,883, 2-15-72, Cl. 260-525.
Jackson, James C., to Phillips Petroleum Company. Method of heat sealing a peelable cover onto a container. 3,701,699, 10-31-72, Cl. 156-69.000.
Jackson, Jesse, Jr.: *See*—
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Jackson, John C., Jr. Method of treating burned skin. 3,655,881, 4-11-72, Cl. 424-144.
Jackson, John Ernest, to Imperial Chemical Industries Limited. Stabilized polyamides. 3,640,948, 2-8-72, Cl. 260-45.75.
Jackson, John L., to Technical, Inc. Photographic support system. 3,699,252, 10-17-72, Cl. 178-7.200.
Jackson, John Maxwell, to Jackson, Max, Developments Limited. Multi-colour printing machine for cylindrical and frusto-conical objects. 3,645,201, 2-29-72, Cl. 101-38.
Jackson, Keith L., to General Steel Industries, Inc. Railway vehicle truck articulated. 3,661,097, 5-9-72, Cl. 105-119.
Jackson, Larry L., to Dow Chemical Company, The. Recovery of 1,2,4,5-tetrachlorobenzene and heat transfer agents. 3,647,894, 3-7-72, Cl. 260-650.
Jackson, Lewis B., Jr. Position control and indicating mechanism. 3,643,141, 2-15-72, Cl. 318-162.
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Jackson, Meryl R., to Greeman Laboratories, Inc. Powder sampler. 3,667,512, 6-6-72, Cl. 141-130.000.
Jackson, Neville: *See—*
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Jackson Products Company: *See—*
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Jackson, Richard M. Tire underinflation telltale device. 3,662,703, 5-16-72, Cl. 116-34.
Jackson, Richard R. Kite. 3,697,023, 10-10-72, Cl. 244-153.00r.
Jackson, Richard Robert. Self-inflating endotracheal tube. 3,707,151, 12-26-72, Cl. 128-351.000.
Jackson, Robert C., to Stylon Corporation. Method for assembling groups of flat modular pieces. 3,658,621, 4-25-72, Cl. 156-289.
Jackson, Robert G., to Conch International Methane Limited. Storage arrangement for liquefied gas. 3,648,880, 3-14-72, Cl. 220-10.
Jackson, Robert G., to Conch International Methane Limited. In-ground storage arrangement for liquefied gases. 3,662,558, 5-16-72, Cl. 61-.5.
Jackson, Robert G., to Conch International Methane Limited. Offshore storage tanks. 3,675,431, 7-11-72, Cl. 61-46.000.
Jackson, Robert G. Stretch-draw tubing process. 3,678,727, 7-25-72, Cl. 72-367.000.
Jackson, Robert Glover, to Conch International Methane Limited. Storage arrangement for liquefied gases. 3,648,879, 3-14-72, Cl. 220-9.
Jackson, Robert V.: *See—*
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Jackson, Roy; and Wehner, John Francis, to Du Pont de Nemours, E. I., and Company. Stable tolylene diisocyanate compositions. 3,652,424, 3-28-72, Cl. 252-182.
Jackson, Samuel Robert, to Varian Associates. Depressable beam collector structure for electron tubes. 3,666,980, 5-30-72, Cl. 313-39.
Jackson, Squire Ronald; Greenwood, Kenneth; Heaton, Alban; and Harrison, Alwin. Apparatus for regulation of airflow to flame tubes for gas turbine engines. 3,691,761, 9-19-72, Cl. 60-39.230.
Jackson, Steven B.; Freieich, Ernest; and Hammond, James D., to Fluor Corporation. Low pressure ethylene recovery process. 3,675,435, 7-11-72, Cl. 62-26.000.
Jackson, Stewart C.; and Harrison, Arthur, to Tatton, William, & Co. Limited. Methods of drying yarns and apparatus therefor. 3,643,340, 2-22-72, Cl. 34-15.
Jackson, Stuart P.: *See—*
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Jackson, Stuart P. Standby power circuit utilizing multiple pulse modulation for converting D.C. to A.C. electric power. 3,638,095, 1-25-72, Cl. 321-9.
Jackson, Stuart P. Converter circuit for A.C. to D.C. with feedback means. 3,644,819, 2-22-72, Cl. 321-20.
Jackson, Thomas Meirion; Bush, Eric Langley; Rowe, Thomas John; and Moule, David John, to Standard Telephones and Cables Limited. Photolithographic masks. 3,650,796, 3-21-72, Cl. 117-8.
Jackson, Weldon H.; Robison, Billie J.; and Hewlett-Packard Company, to RF Sputtering system with the anode enclosing. the target. 3,661,758, 5-9-72, Cl. 204-298.
Jackson, Wendell T.; Garrett, Beverley R.; and Vicars, Earl C., to Hexcel Corporation. Honeycomb having laminates of unidirectional strands. 3,673,058, 6-27-72, Cl. 161-68.000.
Jackson, Wendell T.; and Balaban, Martin M., to Hexcel Corporation. Method and apparatus for testing thin webs in shear. 3,690,161, 9-12-72, Cl. 73-101.000.
Jackson, Wilbur. Tufting machine stop motion embodying light beam and sensor with triggering circuit responding to yarn breaks. 3,687,095, 8-29-72, Cl. 112-79.00r.
Jackson, Wilbur C.; and Beck, William P., to Sunbeam Corporation. Electric dry shaver with inclined shaving head. 3,639,984, 2-8-72, Cl. 30-34.1.
Jackson, Wilbur F.: *See—*
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Jackson, Wilbur F.; and Willson, James R., to Robertshaw Controls Company. Non-linear temperature responsive valve assemblies. 3,664,582, 5-23-72, Cl. 236-93.
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Jackson, William E., to Goodyear Tire & Rubber Company, The. Composition prepared by treating diamine-ketone mixtures with calcium carbide. 3,645,907, 2-29-72, Cl. 252-182.
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Eastcott, Peter de Hertel; and Jackson, William Herbert, 3,692,280.
Jackson, William J. Unloader for storage bins. 3,647,094, 3-7-72, Cl. 214-17.
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Jackson, Winston J., Jr.; and Caldwell, John R., to Eastman Kodak Company. Low viscosity high strength thermoplastic adhesive. 3,644,267, 2-22-72, Cl. 260-33.6.
Jackson, Winston J., Jr.; Kuhfuss, Herbert F.; and Caldwell, John R., to Eastman Kodak Company. Shaped articles of blends of polyesters and polyvinyls. 3,644,574, 2-22-72, Cl. 260-873.
Jackson, Winston J., Jr.; Caldwell, John R.; and Kuhfuss, Herbert F., to Eastman Kodak Company. Linear polyesters having free carboxyl radicals distributed along the molecular chain, coatings thereof and coated substrates. 3,652,502, 3-28-72, Cl. 260-75.
Jackson, Winston J., Jr.; and Caldwell, John R., to Eastman Kodak Company. Surface brominated fibers comprised of poly (1,4-cyclohexylene-dimethylene terephthalate). 3,654,232, 4-4-72, Cl. 260-75.
Jackson, Winston J., Jr.; and Watson, Marshall T., to Eastman Kodak Company. Textile yarn. 3,670,489, 6-20-72, Cl. 57-140.000.
Jackson, Winston J., Jr.; Kuhfuss, Herbert F.; and Caldwell, John R., to Eastman Kodak Company. Process for enhancing the inherent viscosity of bisphenol polyesters. 3,684,766, 8-15-72, Cl. 260-47.00c.
Jackson, Winston J., Jr., to Eastman Kodak Company. Processable polyester compositions. 3,703,495, 11-21-72, Cl. 260-30.60r.
Jacky, Germaine F.; and Ehrlich, Richard D., to United States of America, Atomic Energy Commission. Uranium surface preparation for electroless nickel plating. 3,700,482, 10-24-72, Cl. 117-50.000.
Jacob, Abraham H.; and Franke, John L., to General Instrument Corporation. Touch switch array panel. 3,701,869, 10-31-72, Cl. 200-167.00r.
Jacob, Adir, to LFE Corporation. Gas discharge apparatus. 3,705,091, 12-5-72, Cl. 205-312.000.
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Jacob, Ezekiel J. Surgical blade package. 3,669,256, 6-13-72, Cl. 206-63.20r.
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Jacob, Jean-Baptiste, to C.I.T.-Compagnie Industrielle des Telecommunications and Societe Lannionnaise d'Electronique. Expanded multi-stage time connection network. 3,674,938, 7-4-72, Cl. 179-15.0aq.
Jacob, Jean-Baptiste; and Lavanant, Pierre, to C.I.T.-Compagnie Industrielle des Telecommunications and Societe Lannionnaise d'Electronique. Digital filtering for detecting component frequencies from a set of predetermined frequencies. 3,683,162, 8-8-72, C. 235-156.000.
Jacob, Jean-Baptiste, to CIT-Compagnie Industrielle des Telecommunications and Societe Lannionaise d'Electronique. Path testing device for time channel connection network. 3,705,958, 12-12-72, Cl. 179-18.00j.
Jacob, Larry Michael: *See—*
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Jacob, Louis, to Commissariat a l'Energie Atomique. Device for improving the optical qualities of a laser beam. 3,674,340, 7-4-72, Cl. 350-157.000.
Jacob, Oscar Ernst Otto, to Greiff-Werke Gustav Winkler KG. Men's coat. 3,651,520, 3-28-72, Cl. 2-272.
Jacob, Richard J., to Dayco Corporation. Golf putter with rotatable sole device mounted thereon. 3,680,868, 8-1-72, Cl. 273-174.000.
Jacob, Richard J., to Dayco Corporation. Loom picker. 3,698,443, 10-17-72, Cl. 139-159.000.
Jacob, Werner, to Industriewerk Schaeffler OHG. Ball bearing. 3,672,737, 6-27-72, Cl. 308-196.000.
Jacobe, Jean: *See—*
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Jacobellis, Alphonse A., to Greer Hydraulics, Inc. Relief and unloading valve. 3,636,969, 1-25-72, Cl. 137-115.
Jacobellis, Alphonse A., to Greer Hydraulics, Inc. Rotary actuator. 3,680,982, 8-1-72, Cl. 417-392.000.
Jacobi, Hans-Rudolf; Hauser, Abel; and Hoffmann, Manfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the manufacture of moldings of polylactams by activated anionic polymerization of lactams. 3,642,974, 2-15-72, Cl. 264-294.
Jacobi, Oskar: *See—*
Rieschel, Hans; and Jacobi, Oskar, 3,638,531.
Jacobi, William I. Movable heat-sealing apparatus. 3,654,043, 4-4-72, Cl. 156-582.
Jacobitz, Harvey A., to C-H Tool & Die Corporation. Shell reloading apparatus. 3,693,497, 9-26-72, Cl. 86-28.000.
Jacobowsky, Armin: *See—*
Baader, Herbert; Opitz, Wolfgang; and Jacobowsky, Armin, 3,652,455.
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Jacobs, Barry Edward Adrian: *See—*
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Jacobs, Charles D. Golf ball retrieving club. 3,632,112, 1-4-72, Cl. 273-162.
Jacobs, Cornelis Adrianus Joannes; Beijer, Louis Benjamin; and Driessen, Antonius Jozephus Gerardus Cornelis, to U.S. Philips Corporation. High-pressure mercury vapour iodide discharge lamp. 3,639,801, 2-1-72, Cl. 313-223.
Jacobs, David F., to Westinghouse Electric Corporation. Method and apparatus for light detector fabrication without brazing. 3,683,192, 8-8-72, Cl. 250-216.000.
Jacobs, David F., to Westinghouse Electric Corporation. Method and apparatus for light detector fabrication without brazing. 3,702,402, 11-7-72, Cl. 250-216.000.
Jacobs, Donald R., to American Home Products Corporation. Merchandising fixture. 3,697,033, 10-10-72, Cl. 248-226.00a.
Jacobs, Earl D., to Sundstrand Data Control, Inc., mesne. Accelerometer. 3,702,073, 11-7-72, Cl. 73-517.000.
Jacobs, Gerardus Henricus Johannus. Method of and an apparatus for determining the length of fibers suspended in a liquid. 3,705,348, 12-5-72, Cl. 324-71.00r.
Jacobs, Harold; Kerecman, Albert J.; and Schumacher, James D., to United States of America, Army. Laser energy monitor and control. 3,691,478, 9-12-72, Cl. 331-94.500.
Jacobs, Harry. Versatile grill supports. 3,692,266, 9-19-72, Cl. 248-224.000.
Jacobs, Harry E., to Atlantic Richfield Company. Treating detergent alkylate. 3,646,238, 2-29-72, Cl. 260-674.
Jacobs, Harry E.; and Worrell, George R., to Atlantic Richfield Company. Coal processing. 3,663,420, 5-16-72, Cl. 208-8.000.
Jacobs, Harvey Barry. Emergency percutaneous trans-tracheal high flow oxygen catheter-type resuscitator for restoration of breathing in non-breathing patients. 3,682,166, 8-8-72, Cl. 128-145.800.
Jacobs, Herbert V.: *See—*
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Jacobs, Herbert V.; and Winston, Eric, to Jacobs, Herbert V., mesne. Ply shifter assembly. 3,647,202, 3-7-72, Cl. 271-19.
Jacobs, Herbert V.; and Kirk, Donald, Jr., said Jacobs assor. to Jacobs Machine Corporation. Apparatus for securing buttons to fabric. 3,650,647, 3-21-72, Cl. 425-109.
Jacobs, Herbert V., mesne: *See—*
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Jacobs, James W., to General Motors Corporation. Selective heating system for automatic washing machine. 3,635,229, 1-18-72, Cl. 134-58.
Jacobs, James W., to General Motors Corporation. Air conditioner with cycling fresh air periods. 3,643,461, 2-22-72, Cl. 62-180.
Jacobs, James W., to General Motors Corporation. Continuously variable air deflector. 3,645,193, 2-29-72, Cl. 98-94.
Jacobs, James W., to General Motors Corporation. Thermochromic light flashing system. 3,648,280, 3-7-72, Cl. 340-366.
Jacobs, James W., to General Motors Corporation. Dishwasher with selectable levels of wash. 3,648,931, 3-14-72, Cl. 239-248.
Jacobs, James W., to General Motors Corporation. Photochromic time delay unit. 3,654,474, 4-4-72, Cl. 250-206.
Jacobs, James W., to General Motors Corporation. Dishwasher having improved condensation means. 3,658,075, 4-25-72, Cl. 134-107.
Jacobs, James W., to General Motors Corporation. Automobile air conditioning compressor superheat safety and ambient switch. 3,702,065, 11-7-72, Cl. 62-158.000.
Jacobs, Joh., & Co.: *See—*
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Jacobs, John H.; and Corrigan, Richard A., to Bell & Howell Company. Lead iodine film. 3,661,586, 5-9-72, Cl. 96-48.
Jacobs, Justin M., Jr.; and Stafford, Neil S. Transportation system. 3,659,529, 5-2-72, Cl. 104-88.
Jacobs, Louis J.: *See—*
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Jacobs, Louis L. Fish hook setters. 3,699,701, 10-24-72, Cl. 43-15.000.
Jacobs Machine Corporation: *See—*
Jacobs, Herbert V.; and Kirk, Donald, Jr. (said Jacobs assor. to), 3,650,647.
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Jacobs, Michael Lawrence, to General Electric Company Limited, The. Circuits for private automatic telephone exchange systems. 3,697,704, 10-10-72, Cl. 179-86.000.
Jacobs, Paul F., to Goodyear Tire & Rubber Company, The. Pneumatic tire. 3,698,462, 10-17-72, Cl. 152-209.000.
Jacobs, Paul H.; Peay, Robert L.; and Wisherd, David S., to Motorola, Inc. Microstrip impedance matching circuit with harmonic terminations. 3,662,294, 5-9-72, Cl. 333-33.000.
Jacobs, Philip C., Jr., to Chase-Shawmut Company, The. Convection cooled fuse. 3,693,128, 9-19-72, Cl. 337-166.000.
Jacobs, Richard L., to Sherwin-Williams Company, The. Method of preparing 3-substituted pyridopyrimidinediones and lumazines. 3,635,973, 1-18-72, Cl. 260-251.5.
Jacobs, Richard Lee: *See—*
Saaty, Nabil Najib; and Jacobs, Richard Lee, 3,701,796.
Jacobs, Richard M.; Alexander, Dave W.; and Gronroos, Charles M., to United States of America, Navy. Life support system for deep submersible vehicles. 3,661,107, 5-9-72, Cl. 114-16.00r.
Jacobs, Robert B.: *See—*
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Jacobs, Wayne John; Fritz, Robert William; and Peiffer, Howard Richard, to AMP Incorporated. Method of forming electrical contact materials. 3,697,389, 10-10-72, Cl. 204-37.00r.
Jacobs, Willi F.; and Platzer, Maximilian F., to Lockheed Aircraft Corporation. Airfoil including fluidically controlled jet flap. 3,669,386, 6-13-72, Cl. 244-52.000.
Jacobs, William A.: *See—*
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Jacobs, William A. Extruding and filling containers made of foamed thermoplastic polymer. 3,696,179, 10-3-72, Cl. 264-45.000.

Jacobsen, Anrulv Moe, to A/S Norsk Kabelfabrik. Reeling apparatus for army cable. 3,637,158, 1-25-72, Cl. 242-96.

Jacobsen, Arnulv Moe, to A/S Norsk Kabelfabrik. Method of packaging telephone cable. 3,690,087, 9-12-72, Cl. 53-21.0fw.

Jacobsen, Arnuly Moe, to A/S Norsk Kabelfabrik. Cable package for army telephone cable. 3,637,071, 1-25-72, Cl. 206-52.

Jacobsen, Erik Chresten, to Vilh. Pedersen A/S. Method for die-cutting sheet materials by means of a die-cutting machine and a die-cutting plant for the performance of this method. 3,643,534, 2-22-72, Cl. 83-29.

Jacobsen, Eudell G.; and Martens, David A., to General Motors Corporation. Engine oil pan. 3,653,464, 4-4-72, Cl. 184-6.2.

Jacobsen, Gunter: *See—*
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Krekeler, Hans; Fernholz, Hans; and Jacobsen, Gunter, 3,637,818.

Jacobsen, Jac., to Jacobsen, Jac., A/S. Device made from insulating material for electrical insulation of a switch in a work-lamp shield. 3,702,931, 11-14-72, Cl. 240-122.000.

Jacobsen, Jac., A/S: *See—*
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Jacobsen, Jerome G.: *See—*
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Jacobsen, Julius A. Attachment for holding a forage knife on a grinding machine. 3,656,263, 4-18-72, Cl. 51-238.

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Akgulian, Sahag C.; Haffner, Donald G.; and Heth, Sherman C., 3,668,844.
Akgulian, Sahag C.; and Haffner, Donald G., 3,672,696.
Rogers, Chester D., 3,670,834.
Rogers, Chester D., 3,685,469.

Jacobsen, Paul W., to Weber, H. G., and Company, Inc. Stacker for bags and the like. 3,643,816, 2-22-72, Cl. 214-614.

Jacobsen, Robert K. Four-ball plastic hinge. 3,636,589, 1-25-72, Cl. 16-171.

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Jacobsen, Theodor: *See—*
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Jacobson, Alden H., to Heald Machine Company, The. Machine tool. 3,635,109, 1-18-72, Cl. 82-2.

Jacobson, Alexander D.: *See—*
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Jacobson, Allan I.; and Fisher, Philip J. M. Mullion device for window. 3,645,058, 2-29-72, Cl. 52-456.

Jacobson, Arthur F.; and Jacobson, Harold D. Safety glasses case with ID card holder and pencil carrying pocket protector. 3,647,056, 3-7-72, Cl. 206-5.

Jacobson, Calvin L.; Morken, Robert E.; and Silver, Norman C. Hammermill hammer and assembly. 3,682,401, 8-8-72, Cl. 241-195.000.

Jacobson, Charles R.; D'Adamo, Anthony; and Cosgrove, Charlotte E., to Knoll Pharmaceutical Company. Urazoles and their production. 3,663,564, 5-16-72, Cl. 260-308.

Jacobson, Chester F.: *See—*
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Jacobson, Clayton J. Marine vehicle steering assembly. 3,658,026, 4-25-72, Cl. 115-12.

Jacobson, David R.: *See—*
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Jacobson, Earl D. Fish lure. 3,643,369, 2-22-72, Cl. 43-42.03.

Jacobson, Eugene, to Sun Chemical Corporation. Decorative bow making apparatus with shaped stapling anvil. 3,661,307, 5-9-72, Cl. 223-46.000.

Jacobson, Gunnar; and Olsson, Olof Bertil, to Aktiebolaget Bofors. Missile. 3,684,215, 8-15-72, Cl. 244-3.270.

Jacobson, Gunnar, to Aktiebolaget Bofors. Coupling device for pipes with circular cross sections. 3,701,550, 10-31-72, Cl. 285-39.000.

Jacobson, Harold D.: *See—*
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Jacobson, Howard C. Air valve structure for hammermill. 3,702,686, 11-14-72, Cl. 241-59.000.

Jacobson, James J., to Wahl Associates, Inc. Storage and retrieval device. 3,658,185, 4-25-72, Cl. 211-40.

Jacobson, John E.: *See—*
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Jacobson, Norman, to Esso Research and Engineering Company. Multifunctional polymeric additive. 3,637,610, 1-25-72, Cl. 260-78.5.

Jacobson, Oscar D., to Bendix Corporation, The. Hydrostatically supported gyroscope a combined centrifugal and viscous shear rotary pump. 3,643,516, 2-22-72, Cl. 74-5.

Jacobson, Oscar D., to Bendix Corporation, The. In a hydrostatically supported gyroscope a flexible tube pump providing fluid circulation to hydrostatic bearings of the gyroscope. 3,653,267, 4-4-72, Cl. 74-5.

Jacobson, Oscar D., to Bendix Corporation, The. Piezoelectric crystal operated pump to supply fluid pressure to hydrostatically support inner bearings of a gyroscope. 3,657,930, 4-25-72, Cl. 74-5.

Jacobson, Oscar D., to Bendix Corporation, The. Neutrally floated gyro with meniscus centering. 3,657,931, 4-25-72, Cl. 74-5.

Jacobson, Oscar D., to Bendix Corporation, The. Liquid armature induction pump for an electrically conductive liquid to support a gimbal element of a gyroscope in a hydrostatic bearing. 3,662,609, 5-16-72, Cl. 74-5.

Jacobson, Robert L.: *See—*
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Jacobson, Robert L.; and Spurlock, Burwell, to Chevron Research Company. Chloride addition during hydrogenation. 3,639,227, 2-1-72, Cl. 208-143.

Jacobson, Stanley I.; and Sansbury, John R., to Hughes Aircraft Company. Fragmenting cover. 3,674,227, 7-4-72, Cl. 244-121.000.

Jacobson, Sydney; Knowles, Denis; and Parker, Derek, to Montague Burton Limited. Method of bonding an interlining to a garment using stray field dielectric heating. 3,674,592, 7-4-72, Cl. 156-274.000.

Jacobson, Wayne B., to Iowa Manufacturing Company. Linearized gate control system for multiple feeder and hopper arrangements. 3,696,976, 10-10-72, Cl. 222-504.000.

Jacobson, William P., to Anderson Bros. Mfg. Co. Package and blank therefor. 3,656,614, 4-18-72, Cl. 206-65.

Jacobsson, Jan Roland, to AGA Aktiebolag. Vapor deposition apparatus. 3,695,217, 10-3-72, Cl. 118-49.500.

Jacobucci, Romeo. Tile holding and placement device. 3,643,992, 2-22-72, Cl. 294-65.

Jacobus, Charles J. Control system. 3,659,672, 5-2-72, Cl. 180-65.

Jacobus, Dwight W.; and Simms, Michael L., to General Electric Company. Household refrigerator including exterior ice service. 3,640,088, 2-8-72, Cl. 62-320.

Jacobus, Rodman M. Pacifier and safety teething ring assembly. 3,653,386, 4-4-72, Cl. 128-360.

Jacoby, Charles H., to International Salt Company. Geothermal energy recovery from deep caverns in salt deposits by means of air flow. 3,661,424, 5-9-72, Cl. 299-5.

Jacoby, Charles H., to International Salt Company. Salt solution mining and geothermal heat utilization system. 3,676,078, 7-11-72, Cl. 23-299.000.

Jacoby, Charles H., to International Salt Company. Grouting fissures in underground rock salt deposits. 3,702,059, 11-7-72, Cl. 61-35.000.

Jacoby, Frederick J.: *See—*
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Jacoby, Frederick J.; Hamb, Frederick L.; and Trent, Lewis C., to Eastman Kodak Company. Photographic subbing materials. 3,658,541, 4-25-72, Cl. 96-87.

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Jacoby, Ian H.; Giordano, Anthony J.; and Fioretti, Warren H., to Identimation Corporation. Personnel identification apparatus. 3,648,240, 3-7-72, Cl. 340-146.3.

Jacoby, John M.: *See—*
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Jacoby, William F., to AMF Incorporated. Adjustable twin-strut handlebar construction. 3,655,219, 4-11-72, Cl. 280-279.

Jacoby-Bender, Incorporated: *See—*
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Jaconette, Frank C., to Hubbell, Harvey, Incorporated. Grounding spring for electrical fixtures. 3,663,919, 5-16-72, Cl. 339-14.

Jaconette, Frank C., to Hubbell, Harvey, Incorporated. Electrical device having an improved mounting strap. 3,688,239, 8-29-72, Cl. 339-14.00r.

Jaconette, Frank C., to Hubbell, Harvey, Incorporated. Electrical receptacle having an improved contact terminal arrangement. 3,689,870, 9-5-72, Cl. 339-217.00r.

Jacovides, Linos J.; Lyon, David M.; and Fisher, Richard M., to General Motors Corporation. Induction motor fabrication method. 3,705,971, 12-12-72, Cl. 219-121.0eb.

Jacquelin, Guy, to Centre Technique de l'Industrie des Papiers, Cartons et Celluloses. Continuous manufacture of a paper sheet having a uniform consistency by projection of a slurry under pressure. 3,654,074, 4-4-72, Cl. 162-213.

Jacquelin, Guy, to Centre Technique de l'Industrie des Papiers, Cartons et Celluloses. Method of and apparatus for continuous extrac-

tion of liquid from a pasty suspension. 3,669,011, 6-13-72, Cl. 100-118.000.
Jacquelin, Guy, to Societe d'Exploitation des Brevets Granofibre. Method of treating suspension of fibers to form fibrous aggregates. 3,679,542, 7-25-72, Cl. 162-1.000.
Jacquelin, Jean, to Compagnie Generale d'Electricite. Basic cell operating with hydrocarbon fuel. 3,703,416, 11-21-72, Cl. 136-86.00r.
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Jacques, David E., to Waveline, Inc., mesne. Milling machine with multiple-spindle attachment. 3,641,873, 2-15-72, Cl. 90-14.
Jacques Guillon/Designers Inc.: *See—*
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Jacques, Maison-Alfort: *See—*
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Jacquin, Yves; and Derrien, Michel, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for selectively hydrogenating petroleum cuts of the gasoline range in several steps. 3,702,291, 11-7-72, Cl. 208-57.000.
Jacquinet, Jean-Louiss, to Societe Rhodiaceta. Spinneret for producing trilobal yarns. 3,642,420, 2-15-72, Cl. 425-465.
Jacquot, Michel; and Amicel, Charles, to Boussois Souchon Neuvesel. Device for the manufacture of an insulating pan unit. 3,698,619, 10-17-72, Cl. 228-6.000.
Jacumin, Emile, Jr.: *See—*
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Jacuone, Roberto: *See—*
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Jacuzzi, Roy A.; and Jacuzzi, Kenneth A., 3,679,257.
Jacuzzi, Roy A., to Jacuzzi Research, Inc. Pool hydromassage assembly. 3,674,020, 7-4-72, Cl. 128-66.000.
Jacuzzi, Roy A.; and Jacuzzi, Kenneth A., to Jacuzzi Research Inc. Foldable wheel chair. 3,679,257, 7-25-72, Cl. 297-42.000.
Jacyno, Anthony; and Botefuhr, Harold R., to Murphy, G. W., Industries, Inc. Subframe for power tool having double insulated brush holders. 3,656,016, 4-11-72, Cl. 310-50.
Jacyno, Anthony, to Murphy, G. W., Industries, Inc. Modular design-dougle insulated field. 3,665,228, 5-23-72, Cl. 310-47.000.
Jacyno, Anthony, to Murphy, G. W., Industries, Inc. Insulated chuck. 3,685,843, 8-22-72, Cl. 279-1.00r.
Jacyno, Anthony; and Holther, Grover P., to Murphy, G. W., Industries, Inc. Subframe for a power tool employing two plate-like elements with cut out portions for motor and transmission. 3,688,138, 8-29-72, Cl. 310-50.000.
Jacyno, Anthony, to Murphy, G. W., Industries, Inc. Stamped shell sheet metal frame module for a power tool. 3,694,680, 9-26-72, Cl. 310-50.000.
Jacyno, Anthony, to Murphy, G. W., Industries, Inc. Electric tool with its circuit components shielded from the motor parts. 3,703,646, 11-21-72, Cl. 310-47.000.
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Jaech, Merrell O., to Morton-Norwich Products, Inc. Article depositing machine improvement. 3,696,968, 10-10-72, Cl. 221-265.000.
Jaecklin, Andre, to Aktiengesellschaft Brown, Boveri & Cie. Optical wattmeter. 3,675,125, 7-4-72, Cl. 324-96.000.
Jaecklin, Andre, to Aktiengesellschaft Brown, Boveri & Cie. Apparatus for electronically measuring the angle of rotation of the polarization plane of a linearly polarized light beam produced by passage of the beam through a magneto-optical element subjecte to a magnetic field to be measured. 3,693,082, 9-19-72, Cl. 324-96.000.
Jaecklin, Andre; and Lietz, Manfred, to Aktiengesellschaft Brown, Boveri & Cie. Magneto-optical probe having natural birefringence error compensation. 3,707,321, 12-26-72, Cl. 350-151.000.
Jaecklin, Andre; Mastner, Jiri; and Von Willisen, Friedrich K., to Aktiengesellschaft Brown, Boveri & Cie. Apparatus for electronically analyzing modulated light beams. 3,707,329, 12-26-72, Cl. 356-117.000.
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Jaeger, Erwin, to Compagnie de Saint-Gobain. Means for preventing the adhesion of mineral fibers to the walls thereof of forming chamber. 3,636,590, 1-25-72, Cl. 19-.56.
Jaeger, Horst, to Ciba Limited. Fluoroalkyl ethers and process for their manufacture. 3,658,918, 4-25-72, Cl. 260-614.
Jaeger, Joseph H.: *See—*
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Jaeger, Karl. Vertical takeoff and landing aircraft. 3,640,489, 2-8-72, Cl. 244-23.
Jaeger, Robert Francis; and King, Ernest Frederick, Jr. Pipe tool. 3,665,579, 5-30-72, Cl. 29-237.000.
Jaeger, Walter, to Ovitron Corporation. Process for the production of sulfur trioxide by the cold gas process. 3,647,360, 3-7-72, Cl. 23-168.
Jaeggi, Knut A.; and Renner, Ulrich, to Geigy Chemical Corporation. 2-(p-Alkoxybenzyl)-5-chloro-3-2-(tertiaryamino)-ethyl-2,3-dihydro-3-benzofuranols. 3,634,421, 1-11-72, Cl. 260-247.7.
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Jaeschke, Ralph L., to Eaton Corporation. Method of making pole members. 3,672,042, 6-27-72, Cl. 29-602.000.
Jaeschke, Ralph L., to Eaton Corporation. Electromagnetic friction coupling. 3,704,766, 12-5-72, Cl. 188-164.000.
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Jakobi, Wilhelm, to Bautz, Josef, GmbH. Releasable cutter platform for a self-propelled combine harvester. 3,683,605, 8-15-72, Cl. 56-228.000.

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Jalbert, Armand F. Temp-a-check. 3,673,870, 7-4-72, Cl. 73-349.000.

Jalbert, Domina C. Sail and method of construction. 3,680,519, 8-1-72, Cl. 114-103.000.

Jalbert, Donald A. Sealed casket made of plastic for use with a burial system. 3,681,820, 8-8-72, Cl. 27-7.000.

Jalbing, John I.: *See*—
Van Uum, Donald R.; and Jalbing, John I., 3,691,419.

Jaleel, Jalal S.: *See*—
Berger, Abe; and Jaleel, Jalal S., 3,668,229.

Jalics, George, to SCM Corporation. Water dispersible, crossling resins via the incorporation of pendant Mannich adduct units therein. 3,637,597, 1-25-72, Cl. 260-65.

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Jamaica, Julius Orban; and Brooks, Joseph, to Membrionics Corporation. Oil spillage control process. 3,681,237, 8-1-72, Cl. 210-30.000.

Jamal, Victor Joseph, to Union Carbide Corporation. Machine for tagging wires. 3,707,425, 12-26-72, Cl. 156-522.000.

Jamba, Douglas M.; and Ennis, Robert M., Jr., to Hughes Aircraft Company. Ion beam image converter. 3,641,341, 2-8-72, Cl. 250-49.5.

James, Barry A. J.; and Brown, Gordon T., to G.K.N. Group Services Limited. Method of making steel having an improved hardenability. 3,690,868, 9-12-72, Cl. 75-49.000.

James, Bertram G., to Varian Associates. Coalesced mode coupled cavity slow wave tube. 3,668,460, 6-6-72, Cl. 315-3.5.

James, Bertram G.; Harman, Ward A.; and Ruetz, John A., to Varian Associates. Coupled cavity slow wave circuit for microwave tubes. 3,684,913, 8-15-72, Cl. 315-3.500.

James, Brian: *See*—
Reid, Paul; and James, Brian, 3,681,119.

James, Charles Fitzhugh; Robertson, Ralston Hodges, Jr.; and Warnock, Merville Lee, to Bell Telephone Laboratories, Incorporated. Electronic combination lock system. 3,660,729, 5-2-72, Cl. 317-134.

James, Claire L., to Eastman Kodak Company. Control apparatus and method for a photographic device. 3,640,198, 2-8-72, Cl. 95-13.

James, Clifford Neil. Golf ball retrieval and storage device. 3,663,049, 5-16-72, Cl. 294-19.

James, Crafton D.: *See*—
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James, Cyril P.; and Washchynsky, Bohdan, to North American Rockwell Corporation. Flat adjusting and throw-off arrangement for form roller in printing press. 3,691,956, 9-19-72, Cl. 101-247.000.

James, Daniel S., to Du Pont de Nemours, E. I., and Company. Aqueous dyeing of acid-dyeable polyamide fibers using yellow-to-orange disazo dyes. 3,676,050, 7-11-72, Cl. 8-41.00b.

James, Daniel Shaw, to Du Pont de Nemours, E. I., and Company. Turquoise biscationic anthraquinone dyes. 3,646,072, 2-29-72, Cl. 260-380.

James, Daniel Shaw, to Du Pont de Nemours, E. I., and Company. Biscatonic monoazo dyes for acid-modified nylon. 3,649,162, 3-14-72, Cl. 8-41.

James, Darrell R.: *See*—
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James, David, to Imperial Chemical Industries Limited. Polyamides with a pigment dispersed in the presence of diethanolamide and diethanolamine. 3,645,957, 2-29-72, Cl. 260-32.6.

James David, to Drawn & Rolled Sections Limited. Method of and a device for use in adhesively securing together the surfaces of substantially impermeable materials. 3,649,418, 3-14-72, Cl. 156-580.

James, David, to Drawn & Rolled Sections Limited. Apparatus for cladding elongated articles with stainless steel foil. 3,650,144, 3-21-72, Cl. 76-467.

James, David, to Imperial Chemical Industries Limited. Polyamide containing organo metallic compound. 3,705,134, 12-5-72, Cl. 260-78.00r.

James, David Richard, to Murray Curvex Printing Limited. Method of offset printing or decorating an article with thermoplastic color. 3,688,695, 9-5-72, Cl. 101-211.000.

James, David W. F.; Spiller, David O.; and Coltman, Harvey D., to University College of North Wales. Getter-sputtering apparatus. 3,691,053, 9-12-72, Cl. 204-298.000.

James, Derek Patrick, to United States Borax & Chemical Corporation. Refractory compositions containing carbon. 3,649,314, 3-14-72, Cl. 106-56.

James, Edgar T.; and Magri, Dominic, to Swedish Crucible Steel Company. Apparatus for deflashing annular plastic articles. 3,680,568, 8-1-72, Cl. 134-63.000.

James, Edward Anthony: *See*—
Di Stefano, Ralph David; and James, Edward Anthony, 3,640,765.

James, Frazier N., Sr., to Allied Automation, Inc. Document verification and banking machine. 3,635,321, 1-18-72, Cl. 194-4.

James, Glen S.: *See*—
Bailey, Robert C.; Estes, Harry A.; James, Glen S.; Klug, James R.; Montillon, Henry A.; Myring, Verne E.; Robertson, Orville H.; Sargeant, Blaine W.; and Sorensen, Neal E., 3,679,200.

James, Herbert I.: *See*—
Nordblom, George F.; and James, Herbert I., 3,639,176.

James, Jack L.: *See*—
Siedband, Melvin P.; and James, Jack L., 3,634,871.
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James, Jack L.; and Euler, Fred J., to CGR Medical Corporation, mesne. Starting voltage suppressor circuitry for an X-ray generator. 3,636,355, 1-18-72, Cl. 250-102.

James, John W.; and Stevens, Robert, to Aspro-Nicholas Limited. Phloretic acid derivatives. 3,689,540, 9-5-72, Cl. 260-521.00r.

James, John William: *See*—
Gittos, Maurice Ward; James, John William; and Verge, John Pomfret, 3,652,570.

James, Mary Lea: *See*—
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James, Peter; Brennan, Martin J.; and Kappes, Ben E., said Brennan and Kappes assors. to said Peter, James. Computer system utilizing a telephone as an input device. 3,647,973, 3-7-72, Cl. 179-2.

James, Pierre Lucien Jules, to U.S. Philips Corporation. Device for positioning a patient. 3,652,077, 3-28-72, Cl. 269-322.

James, Ralph E.: *See*—
Freerks, Conrad T.; Huppert, James C.; and James, Ralph E., 3,645,049.

James, Ralph, Jr.: *See*—
Shelton, Marcus H.; and James, Ralph, Jr., 3,655,851.
Wylie, Roger; and James, Ralph, Jr., 3,631,605.

James, Randell L., to International Business Machines Corporation. No clock shift register and control technique. 3,675,216, 7-4-72, Cl. 340-172.500.

James, Reginald: *See*—
Watkins, John; and James, Reginald, 3,686,906.

James, Richard N.: *See*—
Applequist, James E.; Johnson, James E.; Okers, Clifford B.; Daniels, Donald V.; James, Richard N.; Roberts, Daniel M.; and Guzy, Daniel James, 3,688,656.

James Richard N.; Applequist, James E.; and Roberts, Daniel M., to Image Products Corporation. High resolution fiber optic display and microfilm printer. 3,644,922, 2-22-72, Cl. 340-324.

James, Robert C.: *See*—
Vogel, Walter H.; Cochrane, Richard H.; and James, Robert C., 3,652,357.

James, Robert C.; Wilson, David A.; and Pringle, Frank E., Jr., to Hayssen Manufacturing Company. Gas flushing system for vertical form, fill and seal machines. 3,664,086, 5-23-72, Cl. 53-112.

James, Robert C.; Vogel, Walter H.; and Sorenson, Richard D., to Hayssen Manufacturing Company. Apparatus for web edge alignment. 3,680,446, 8-1-72, Cl. 93-82.000.

James, Robert C.; Hart, Charles G.; Rogers, John E.; and Safranski, Richard W. Auger filler and control therefor. 3,687,250, 8-29-72, Cl. 192-12.00d.

James, Robert E.: *See*—
Carmellini, Andrew E.; and James, Robert E., 3,681,165.

James, Robert L.; and Tawfik, David A., to Bendix Corporation, The. Integrator/synchronizer with infinite memory including a drift-correcting feedback circuit. 3,633,004, 1-4-72, Cl. 235-150.51.

James, Robin Harold: *See*—
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James, Ronald William: *See*—
Des Champs, Nicholas Howard; Mayo, Kenneth E.; Messier, Douglas Arthur; and James, Ronald William, 3,663,306.

James, Stanley D.: *See*—
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James, Theodore K., to Transworld Drilling Company. Lubricator assembly device. 3,637,009, 1-25-72, Cl. 166-.5.

James, Thomas H., to Eastman Kodak Company. Methine dye sensitizers for emulsions exposed at- 180° C. 3,632,348, 1-4-72, Cl. 96-107.

James, Varnell L.: *See*—
Fitzgerald, John M.; and James, Varnell L., 3,687,400.

James, William G.: *See*—
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Jamesburg Corporation, mesne: *See*—
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Donnelly, James F.; Gee, Wendell P.; and Phipps, Nelson S., 3,701,286.
Rawstron, William W.; and Carlson, Edwin S. (said Rawstron assor. to said), 3,661,355.
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Jameson, Bruce G.: *See*—
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Jamesion, Richard A.; and Mickus, James C., to Cargill, Incorporated. Insecticidal compositions and method of making same. 3,632,759, 1-4-72, Cl. 424-300.

Jamieson, Ernest J.: *See*—
Swanson, John W.; Hartman, David A.; Beers, Russel L.; and Jamieson, Ernest J., 3,647,694.

Jamieson, Ernest J., to Cities Service Oil Company. Gasoline composition. 3,655,351, 4-11-72, Cl. 44-66.

Jamieson Film Company: *See*—
Jamieson, Hugh V., Jr.; and Melze, Charles F., 3,661,068.

Jamieson, Hugh V., Jr.; and Melze, Charles F., to Jamieson Film Company. Sound track developer. 3,661,068, 5-9-72, Cl. 95-94.

Jamieson, Ian K. Portable device for testing electrical appliances. 3,704,411, 11-28-72, Cl. 324-53.000.

Jamieson, James Barry, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Flow control devices. 3,643,431, 2-22-72, Cl. 60-39.71.

Jamieson, John. Method of inscribing cemetery memorials. 3,687,750, 8-29-72, Cl. 156-63.000.

Jamieson, John W., to Diablo Systems, Inc. Headloading system for magnetic memory disk drives. 3,702,997, 11-14-72, Cl. 340-174.10e.

Jamieson, Robert S.: *See*—
Rolfes, Paul E.; and Jamieson, Robert S., 3,651,427.

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Jamieson, William Boffey: *See*—
Ross, William James; and Jamieson, William Boffey, 3,658,797.

Jamison Door Company: *See*—
Oden'Hal, Fortune; and Jordan, Harry A., 3,652,113.

Jamison, Joel D., to Hercules Incorporated. 0,0-Dialkyl phosphorodithioate and phosphorothioate esters of oxazolidine-2,4-dione derivatives as systemic insecticides. 3,632,598, 1-4-72, Cl. 260-307.

Jamison, Joel D. O,O-dialkyl S-[2-halo-1-(N-succinimido)ethyl] phosphorothioates and phosphorodithioates and insecticidal compositions containing them. 3,654,307, 4-4-72, Cl. 260-326.5.

Jamison, Joel D., to Hercules Incorporated. Certain 2-benzoxazolinone and 2-benzothiazolinone derivatives of O,O-dialkyl S-(2-haloethyl)phosphorothioates and dithioates. 3,668,213, 6-6-72, Cl. 260-304.000.

Jamison, Robert M.: *See*—
Frundl, Ronald J.; Hanson, Victor W.; Jamison, Robert M.; and Arnold, Orlan M., 3,666,248.

Jamison, Robert W.; and Norcross, Paul A., to Union Oil Company of California. Vehicle position marking device. 3,675,199, 7-4-72, Cl. 340-62.000.

Jamison, Samuel J., to Johnson & Johnson. Fitted bed sheet. 3,694,832, 10-3-72, Cl. 5-334.000.

Jamison, Saunders E.; and Dunay, Michael. Art of producing shaped, modified, condensation polymers. 3,639,501, 2-1-72, Cl. 260-857.

Jamison, Saunders E., to Celanese Corporation. Diacid-diol based foams and process of making same. 3,671,471, 6-20-72, Cl. 260-2.50r.

Jamison, Saunders E., to Celanese Corporation. Shaped structures. 3,681,472, 8-1-72, Cl. 260-836.000.

Jamison, Saunders Eliot: *See*—
Soehngen, John William; Wagner, William Sherwood; Jamison, Saunders Eliot; and Canfield, Dale Kelley, 3,704,192.

Jamison, Saunders Eliot, to Celanese Corporation of America. Melt extruding process comprising a trioxane monomer and a polymeric binder. 3,681,488, 8-1-72, Cl. 264-176.000.

Jammaud, Andre, to Societe Industrielle Honeywell Bull Societe (Societe Anonyme). Signaling and control apparatus slidably and swingably mounted on a supporting cabinet. 3,675,084, 7-4-72, Cl. 317-101.0cb.

Jammet, Jean Firmin, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Process for mass production of batteries of electrochemical generators of stacked flat constituents. 3,679,489, 7-25-72, Cl. 136-175.000.

Jammet, Jean Firmin, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Battery including pair of air-depolarized cells. 3,697,326, 10-10-72, Cl. 136-86.00a.

Jammet, Jean-Firmin: *See*—
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Jamshidi, Khosrow. Fruits and nuts picking device. 3,664,104, 5-23-72, Cl. 56-332.

Janakirama Rao, Bhogaraju V., to PPG Industries, Inc. Heat absorbing blue soda-lime-silica glass. 3,652,303, 3-28-72, Cl. 106-52.

Janc, Zbynek: *See*—
Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.

Janco Corporation: *See*—
Jordan, Lewis W.; and Cerniway, Leon A., 3,654,413.

Janco, Nathan. Apparatus for coating the inside of a cylindrical member. 3,662,709, 5-16-72, Cl. 118-318.

Janda, Clifford C. Leveler. 3,672,618, 6-27-72, Cl. 248-116.000.

Janecek, Jaroslav: *See*—
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Janecek, Jaroslav; and Svoboda, Antonin, to Adamovske strojirny, narodni podnik. Base frame for a printing press. 3,633,495, 1-11-72, Cl. 101-1.

Janecka, Gustav, to Waldes Kohinoor, Inc. Applicator-operated dispenser for dispensing clip-type external spring retaining rings. 3,662,921, 5-16-72, Cl. 221-312.

Janecka, Gustav, to Kohinoor, Waldes Inc. Hand applicator for assembling external retaining rings in their grooves by radial application. 3,681,839, 8-8-72, Cl. 29-229.

Janelid, Ingvar. Power plant driven by a gas turbine, and a method of operating such a power plant. 3,643,426, 2-22-72, Cl. 60-39.02.

Janelid, Ingvar. Method of preventing leakage during storage of a gas or a liquid in a rock chamber by artifically supplying a gas or a liquid to the rock surrounding the rock chamber. 3,670,503, 6-20-72, Cl. 61-.5.

Janes, Jerry M.: *See*—
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Janes, John Francis: *See*—
Curtis, Anthony John; Jaggers, Brian George; and Janes, John Francis, 3,647,847.

Janes, John Francis; Jaggers, Brian George; and Curtis, Anthony John, to Bush Boake Allen Limited. Perfumery compositions containing patchouli oil and 8-camphene carbinol. 3,673,120, 6-27-72, Cl. 252-522.000.

Janetos, Nicholas S.: *See*—
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Janetzke, Marjorie H. Ironing board cover. 3,636,644, 1-25-72, Cl. 38-140.

Jania, Zbigniew J., to Ford Motor Company. Hydraulic power supply. 3,640,301, 2-8-72, Cl. 137-101.

Jania, Zbigniew J. Speed control system for an automotive vehicle. 3,648,798, 3-14-72, Cl. 180-105.

Jania, Zbigniew J.; and Vanderberg, Lawrence J., to Ford Motor Company. Electronic control system for antiskid vehicle brakes. 3,671,081, 6-20-72, Cl. 303-21.0be.

Jania, Zbigniew J., to Ford Motor Company. Skid control apparatus for vehicle brake system. 3,679,270, 7-25-72, Cl. 303-21.00f.

Janiak, Stefan; and Rhor, Otto, to Ciba Limited. Benzimidazole compounds and pesticidal preparations containing them. 3,652,580, 3-28-72, Cl. 260-309.2.

Janiak, Stefan, to Ciba Limited. 2,4-Dinitro-6-alkyl phenylcyclopropionates. 3,673,237, 6-27-72, Cl. 260-468.00p.

Janiak, Stefan; and Rohr, Otto, to Ciba-Geigy AG. Use of arylureas in combating weeds in cotton plantations. 3,705,028, 12-5-72, Cl. 71-120.000.

Janicek, Mark A. Aquarium platform. 3,699,921, 10-24-72, Cl. 119-5.

Janich, Hans Jurgen, to Polysius AG. Air sifter. 3,656,618, 4-18-72, Cl. 209-139.
Janich, Hans Jurgen, to Polysius G.m.b.H. Apparatus for purifying dust loaded waste gases. 3,672,502, 6-27-72, Cl. 209-144.000.
Janicke, Joseph A. Package for a plurality of articles. 3,669,257, 6-13-72, Cl. 206-65.000.
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Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, 3,660,481.
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Janis, Irwin R., to Fairchild Camera and Instrument Corporation. Keyboard controlled electrical code-signal generator system. 3,662,382, 5-9-72, Cl. 340-365.
Janis, Robert Gerald: *See—*
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Janisch, Douglas G., to Tecumseh Products Company. Ignition circuit. 3,646,667, 3-7-72, Cl. 29-593.
Janisch, Ingo; and Fleissner, Heinz, to Vepa A.G. Process and apparatus for the wet treatment of expanded textile material lengths. 3,700,404, 10-24-72, Cl. 88-158.000.
Janiszewski, Kasimir. Method and apparatus for severing cylindrical stock. 3,659,764, 5-2-72, Cl. 225-2.000.
Janiz, Zbigniew J.: *See—*
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Jank, Reinhard, to U.S. Philips Corporation, mesne. Apparatus with an oscillating armature motor. 3,679,921, 7-25-72, Cl. 310-37.000.
Janke, Bernhard: *See—*
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Janke, Donald E., to Whirlpool Corporation. Digital dryer control circuit. 3,702,030, 11-7-72, Cl. 34-33.000.
Janke, Gilbert J.: *See—*
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Jankelson, Bernard. Adjustable headband carrying electrodes for electrically stimulating the facial and mandibular nerves. 3,659,614, 5-2-72, Cl. 128-410.
Jankowiak, Erwin M.: *See—*
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Jankowski, Alfons; Glaesmann, Otto-Ernst; and Haake, Gerhard, to Bergwerksverband GmbH. Method for reinforcing loose rock and coal. 3,698,196, 10-17-72, Cl. 61-45.00b.
Jankowski, Alfons; and Schuermann, Fritz, to Bergwerksverband GmbH. Cartridge for fixing anchor elements in holes of a support structure. 3,705,646, 12-12-72, Cl. 206-47.00a.
Janku, Milos: *See—*
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Jannett, Frederick Joseph; and Mracek, Jaroslav, to Western Electric Company, Incorporated. Method for handling and maintaining the orientation of a matrix of miniature electrical devices. 3,681,139, 8-1-72, Cl. 156-344.000.
Janney, Gareth M., to Hughes Aircraft Company. Diffraction grating coupled laser ring resonators. 3,691,477, 9-12-72, Cl. 331-94.500.
Janning, John L., to National Cash Register Company, The. Plasma display panel having display and counter conductors on one plate. 3,652,891, 3-28-72, Cl. 313-109.5.
Jannink, Franciscus A.: *See—*
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Janosi, Francis L., to Ford Motor Company. Variable ratio brake pedal. 3,646,831, 3-7-72, Cl. 74-518.
Janosi, Francis L., to Ford Motor Company. Variable ratio brake pedal. 3,678,779, 7-25-72, Cl. 74-516.000.
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Jansen, Charles L., Jr., to United States Gypsum Company. Building assembly and components. 3,707,060, 12-26-72, Cl. 52-241.000.
Jansen, Constant Gijsbertus Johannes; Compaan, Klaas; and Venema, Albertus, to U.S. Philips Corporation. Device having an electric discharge tube comprising a field emission cathode, and discharge tube destined for such a device. 3,688,151, 8-29-72, Cl. 31-348.000.
Jansen, Francis J.: *See—*
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Jansen, Georg: *See—*
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Jansen, George, Jr., to United States of America, Atomic Energy Commission. Nuclear reactor incorporating means for preventing molten fuel from breaching the containment vessel thereof in the event of a core. 3,702,802, 11-14-72, Cl. 176-38.000.
Jansen, Gert; and Clauson-Kaas, Niels, to Ciba-Geigy Corporation. Process for the production of salts of 5-formyl-furan-2-sulphonic acid. 3,696,125, 10-3-72, Cl. 260-347.200.
Jansen, Gunter; and Kling, Hans, to Goetzewerke Friedrich Goetze A.G. Method and apparatus for testing resilient objects for flaws. 3,656,341, 4-18-72, Cl. 73-104.000.
Jansen, Hansjorg; Wildi, Paul; and Kline, James A., to Gulf Oil Corporation. Forming coil. 3,643,480, 2-22-72, Cl. 72-56.
Jansen, Heinz: *See—*
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Jansen, James M., Jr., to United States of America, Atomic Energy Commission. Computer interface. 3,656,116, 4-11-72, Cl. 340-172.5.
Jansen, Karl, to Austin Company, The. Automatic molding apparatus and mold-making machine therein. 3,654,986, 4-11-72, Cl. 164-173.
Jansen, Robert A., to Westinghouse Electric Corporation. Shelf and liner assembly. 3,669,520, 6-13-72, Cl. 312-351.000.
Jansen, Robert A., to Westinghouse Electric Corporation. Refrigerator cabinet structure. 3,684,342, 8-15-72, Cl. 312-214.000.
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Janson, Alfons; Poschmann, Franz; and Wittmann, Georg, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Bleaching of wood pulp with dithionite solution stabilized by zinc compound. 3,653,804, 4-4-72, Cl. 8-110.
Janson, Harry W., to Hoyt Manufacturing Corporation. Solvent reclaimer controls. 3,676,937, 7-18-72, Cl. 34-46.000.
Janson, Jan, to U.S. Philips Corporation. Commutatorless direct current motor. 3,644,765, 2-22-72, Cl. 310-68.
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Janssen, Donovan M.; and Meyer, Clarence G., to International Business Machines Corporation. Cartridge lock actuator. 3,679,283, 7-25-72, Cl. 312-319.000.
Janssen, Eduard Josef Philomena: *See—*
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Janssen, Edward W., to Minnesota Mining and Manufacturing Company. Adhesive fixture. 3,637,181, 1-25-72, Cl. 248-205.
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Janssen, Frits Jacques, to U.S. Philips Corporation. Apparatus for electro-medical investigation. 3,650,264, 3-21-72, Cl. 128-2.06.
Janssen, Gail E.; and Wildenberg, Henry N., to Badger Northland, Inc. Collapsible liner for silo chute. 3,699,732, 10-24-72, Cl. 52-195.000.
Janssen, Hans-Georg, to Aktiengesellschaft 'Weser'. Marine towing device. 3,667,418, 6-6-72, Cl. 114-235.00a.
Janssen, Heinrich: *See—*
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Janssen, Herman W., to Dresser Industries, Inc. Dual focused log having alternately energized focusing apparatus herein. 3,660,755, 5-2-72, Cl. 324-10.
Janssen, Hermann W.; and Mooring, James F., to Dresser Industries, Inc. Dual detector compensated density wall logging system. 3,701,902, 10-31-72, Cl. 250-83.30r.
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Janssen, Peter Johannes Hubertus, to U.S. Philips Corporation. Television receiver with phase detector controlled sound supression filter. 3,663,747, 5-16-72, Cl. 178-5.8.
Janssen, Peter Johannes Hubertus, to U.S. Philips Corporation. Television receiver with a phase detector having dual phase determining and correcting networks. 3,673,321, 6-27-72, Cl. 178-5.80a.
Janssen, Peter Johannes Hubertus; and Ong, Kian Kie, to U.S. Philips Corporation. Detection circuit for frequency-modulated signals. 3,702,442, 11-7-72, Cl. 329-103.000.
Janssen, Peter Johannes Michiel, to U.S. Philips Corporation. Fiber-optical plate coupling a luminescent screen for the display of an image to a photoconductive lead monoxide target of a television camera tube. 3,638,057, 1-25-72, Cl. 313-2.
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Jansson, Birger F., to Case, J. I., Company. Control mechanism for fluid translating device. 3,639,093, 2-1-72, Cl. 418-177.
Jansson, Birger F., to Case, J. I., Company. Braking method and apparatus. 3,679,027, 7-25-72, Cl. 188-74.000.
Jansson, Birger F., to Case, J. I., Company. Balancing mechanism for fluid translating device. 3,695,789, 10-3-72, Cl. 418-75.000.
Jansson, Birger Fredrik, to Case, J. I., Company. Force compensating means for fluid translating device. 3,658,446, 4-25-72, Cl. 418-31.
Jansson, Lars Olov Lennart; and Ljungstrom, Lars Gosta, to Sandvikens Jernverks Aktiebolag. Method of manufacturing filler material for welding. 3,693,240, 9-26-72, Cl. 29-474.300.
Jansz, Joost Werner, to Nederlandse Maatschappij voor Werken Buitengaats (Netherlands Offshore Company) N.V. Method of burying an object in the soil. 3,664,142, 5-23-72, Cl. 61-72.400.
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Jantzen, George H., to Steinthal, M., and Company, Inc. Automatic belt retractor. 3,645,549, 2-29-72, Cl. 297-388.
Jantzen, Leif, to Trask, Arthur C., & Sons. Method of separating lignosulfonic acids. 3,686,161, 8-22-72, Cl. 260-124.00r.
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Januszewski, Joseph Paul, to Colgate-Palmolive Company. Mouthwash containing polymeric polyoxyethylene nonionic surface active agent and chloroform. 3,639,563, 2-1-72, Cl. 424-49.
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Jedlicka, Philip A., to Minnesota Mining and Manufacturing Company. Beam defining apparatus. 3,696,715, 10-10-72, Cl. 95-1.00r.
Jedrychowski, Jerzy L.; and Robinson, Peter, to Raytheon Company. Variable phase equalizer. 3,706,947, 12-19-72, Cl. 333-28.00r.
Jedrzejewski, Piotr, to Warszawska Wytwornia Samochodowych Vrzadzen Naprawczych Warszava. Drum grinder particularly for grinding the lining of brake shoes. 3,688,449, 9-5-72, Cl. 51-96.000.
Jedvall, Gustaf I.; deceased (by Mogensen, Arne; administrator). Method for measuring the distance to a leakage fault in an electrical conductor. 3,705,346, 12-572, Cl. 324-52.000.
Jedvall, Gustaf I.; deceased (by Mogensen, Arne; administrator). Method for measuring the absolute distance to a leakage fault in an electrical conductor. 3,706,927, 12-19-72, Cl. 324-52.000.
Jedynak, Leo, to Oak Electro/Netics Corporation. Control knob for multiturn rotary switch. 3,690,287, 9-12-72, Cl. 116-124.000.
Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A., to Armitage, John L., and Co. Textured articles and process for preparing same. 3,677,794, 7-18-72, Cl. 117-45.000.
Jeffcoat, Keith, to Courtaulds Limited. Flat bed knitting machines. 3,688,525, 9-5-72, Cl. 66-146.000.
Jeffcoat, Keith, to Courtaulds Limited. Flat bed knitting machines. 3,691,794, 9-19-72, Cl. 66-126.000.
Jefferies, Jesse H. TDS slide rule. 3,688,089, 8-29-72, Cl. 235-88.000.
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Jeffers, James E., to Hoerner Waldorf Corporation. Protective corner pad. 3,655,112, 4-11-72, Cl. 229-14.
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Jeffers, William D., to Jeffers & Bailey, Inc. Fusible temperature responsive trigger device. 3,682,130, 8-8-72, Cl. 116-114.500.
Jefferson Chemical Company, Inc.: *See—*
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Jefferson, Donald E.; and Marans, Nelson S., to Grace, W. R., & Co. Process for increasing the wet strength of cellulosic materials. 3,681,131, 8-1-72, Cl. 117-143.00a.
Jefferson, Donald Edward, to Grace, W. R., & Co. Preparation of N-allyl iminodiacetimide dioxime and polymers thereof. 3,639,364, 2-1-72, Cl. 260-80.3.
Jefferson, Leo J.; and Crosby, Lenard J., 1/2 to Crosby, Lenard J. and 1/2 to Cook, Harold E. Butcher's pneumatic bone dust vacuum cleaner. 3,672,576, 6-27-72, Cl. 239-521.
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Salyer, Ival O.; and Jefferson, Robert T., 3,694,385.
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Jeffery, Robert W.; Brown, Robert A., Jr.; and Cullen, Allen F., to Sperry Rand Corporation. Outboard drive unit for boats. 3,673,978, 7-4-72, Cl. 115-35.000.
Jeffrey, Gaines C., to Dow Chemical Company, The. Oxidation of halogenated ethylenes. 3,654,358, 4-4-72, Cl. 260-544.
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Jeffreys, Lyman W., to Armsted Industries Incorporated. Top block shift. 3,646,991, 3-7-72, Cl. 164-342.
Jeffreys, Roy A.; and Gloag, Elizabeth A., to Eastman Kodak Company. Silver halide emulsions containing cyclic enamine cyamine dyes. 3,637,395, 1-25-72, Cl. 96-130.
Jeffreys, Roy A.; and Mellows, Susan M., to Eastman Kodak Company. Novel dyes and photographic emulsions. 3,672,905, 6-27-72, Cl. 96-140.000.
Jeffreys, Roy A.; and Thomas, David A., to Eastman Kodak Company. Photographic elements containing fluorescent brightening agents. 3,674,493, 7-4-72, Cl. 96-72.000.
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Jeffries, Luther R., Jr.; and Thompson, Charles F., to General Nuclear, Inc. Radioactive source shield with safe position indicator. 3,643,096, 2-15-72, Cl. 250-108.
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Jeger, Oskar; and Wehrli, Hans Ueli, to Ciba-Geigy Corporation. 19-Hydroxy-3-aza-a-homo-steroids. 3,706,736, 12-19-72, Cl. 260-239.0bb.
Jehl, Thomas G.: *See—*
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Jehn, David H., to Dun-Hot, Incorporated. Popcorn package. 3,671,270, 6-20-72, Cl. 99-171.00a.
Jelfo, Raymond L., to Xerox Corporation. Photoelectrophoretic reversal imaging using a suspension containing a vitamin precursor, β-carotene. 3,664,941, 5-23-72, Cl. 204-181.
Jelfo, Raymond L., to Xerox Corporation. Photoelectrophoretic imaging process employing an insulating carrier liquid containing an unsaturated compound. 3,692,517, 9-19-72, Cl. 96-1.00r.
Jelinek, James W.; Kozlowski, Joseph J.; and Gooding, Jack E., to Ball Corporation. Glass conductivity and temperature probe. 3,657,640, 4-18-72, Cl. 324-30.
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Jelinek, Jerry G.; Duesenberry, Gary L.; and McCuistion, Thomas J., to Parker-Hannifin Corporation. Fluid sealing joint and gasket. 3,656,769, 4-18-72, Cl. 277-207.
Jelinek, Jerry G.; and Reinsch, Edward, to Parker-Hannifin Corporation. Method of inserting a seal in a face-cut groove. 3,694,894, 10-3-72, Cl. 29-451.000.
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Jellinek, Frank J., to Jellco Mfg., Co. Metal door frames. 3,654,731, 4-11-72, Cl. 49-504.
Jellison, Frank R.; Mason, John B.; and McQueen, Terry K., to General Motors Corporation. Suspension strut. 3,674,283, 7-4-72, Cl. 280-124.00r.
Jellison, Paul J., to Textron, Inc. Composite washer. 3,670,618, 6-20-72, Cl. 85-1.0jp.
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Jen, Timothy Yu-Wen; and Loev, Bernard, to Smith Kline & French Laboratories. Method of inhibiting gastric acid secretion with 2-(2,6 dichlorophenylimino) pyrrolidines. 3,658,958, 4-25-72, Cl. 424-274.
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Jenkins Bros.: *See—*
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Jenkins, Chester W. Time operated sequential dumping animal feeder. 3,646,913, 3-7-72, Cl. 119-51.13.
Jenkins, D. L. Hand gun for making cut pile fabrics and the like. 3,645,219, 2-29-72, Cl. 112-80.
Jenkins, Derek Keith; and Dixon, Christopher George Piers, to International Synthetic Rubber Company Limited, The. Olefin oligomerisation process. 3,641,176, 2-8-72, Cl. 260-668.
Jenkins, Edward M.: *See—*
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Jenkins, Edwin Earl, to Mobil Oil Corporation. Conversion with synthetic crystalline zeolite. 3,687,839, 8-29-72, Cl. 208-111.000.
Jenkins, Francis Edward, to Du Pont de Nemours, E. I., and Company. Process for preparing microporous, open-celled cellular polyamide, polyester and polyacetal structures. 3,674,719, 7-4-72, Cl. 260-2.50m.
Jenkins, Frank J.: *See—*
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Jenkins, John Paul, to Harris-Intertype Corporation. Delay loop tape cartridge. 3,645,539, 2-29-72, Cl. 274-4.
Jenkins, John W., to Shell Oil Company. Hydroealkylation process and catalyst. 3,666,824, 5-30-72, Cl. 260-672.
Jenkins, Keith T., to Rush, C. J., Limited. Control system for revolving door. 3,678,623, 7-25-72, Cl. 49-43.000.
Jenkins, Kenneth Thomas. Apparatus for cutting and folding flexible sheet material. 3,652,080, 3-28-72, Cl. 270-61.
Jenkins, Levaughn. Baby crib. 3,668,721, 6-13-72, Cl. 5-109.000.
Jenkins Metal Shops, Inc.: *See—*
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Jenkins, Murgatroyd H.: *See—*
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Jenkins, Peter J.; and Neller, William C., to Dunlop Holdings Limited. Conveyors systems. 3,640,371, 2-8-72, Cl. 198-16.
Jenkins, Philip W.; and Brooker, Leslie G. S., to Eastman Kodak Company. Silver halide emulsions containing merocyanine and holopolar cyanine dyes. 3,681,081, 8-1-72, Cl. 96-127.000.
Jenkins, Philip W., to Eastman Kodak Company. Silver halide emulsions containing methine dyes with 1H,5H-pyrazolo-[1,2-a] pyrazole-1,3 (2H),5,7(6H)-tetrone nucleus. 3,694,216, 9-26-72, Cl. 96-128.000.
Jenkins, Philip W.; Heseltine, Donald W.; and Mee, John D., to Eastman Kodak Company. Process for radiation cross-linking utilizing N-heterocyclic compounds with cleavable oxy substituents. 3,699,025, 10-17-72, Cl. 204-159.140.

Jenkins, Philip W.; Heseltine, Donald W.; and Mee, John D. Photopolymerization using N-alkoxy heterocyclic initiators. 3,699,026, 10-17-72, Cl. 204-159.230.
Jenkins, Ray T.; Degenfelder, Roy C.; Bieri, Leonard, Jr.; and Tetyak, John J. Automatic cigarette making machine. 3,645,272, 2-29-72, Cl. 131-21.
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Jenkinson, Frank Edward, to Patented Devices (Proprietary) Limited. Location of faults in cables. 3,701,927, 10-31-72, Cl. 317-16.000.
Jenkinson, Richard D., to Union Carbide Corporation. Ethylene/acrylic acid copolymer emulsions. 3,677,989, 7-18-72, Cl. 260-29.60h.
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Jenkner, Herbert; and Praetzel, Hans-Eberhard. Self-extinguishing, coloured moulded articles. 3,658,754, 4-25-72, Cl. 260-45.7.
Jenks, Herbert R., to Dura Fiber, Inc. Method for making prestressed laminated fiber-glass structures. 3,641,230, 2-8-72, Cl. 264-152.
Jenks, Theodore E.; and Bittner, Edward R., 1/2 each to Allied Chemical Corporation and Essex Chemical Corporation. Synthetic board inlaid with moisture-cure urethane and method therefor. 3,636,199, 1-18-72, Cl. 264-134.
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Jenner, Myron. Weather seal for building structures. 3,646,716, 3-7-72, Cl. 52-403.
Jenner, Myron. Mounting arrangement for erected building modules. 3,653,169, 4-4-72, Cl. 52-296.
Jenner, Myron. Connector structure for modular building assemblies. 3,653,698, 4-4-72, Cl. 287-189.36.
Jenner, Myron. Gantry construction. 3,680,716, 8-1-72, Cl. 214-1.00h.
Jenner, Myron. Electrical connections for modular guilding constructions. 3,689,867, 9-5-72, Cl. 339-97.00r.
Jennes, Gert; Huther, Edmund; and Wolff, Willi, to Farbenfabriken Bayer Aktiengesellschaft. Elastomeric mixture of a benzene-soluble polychloroprene and a crosslinked chloroprene polymer. 3,692,875, 9-19-72, Cl. 260-890.000.
Jenness, Raymond C., to Allis-Chalmers Manufacturing Company. Thrust bearing and mounting arrangement therefor. 3,667,819, 6-6-72, Cl. 308-135.
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Jennings, Brian Michael; and Ager, Johnwalter Albert, to Costain Concrete Company, Limited. Rail fastening assemblies for railroad tracks. 3,700,167, 10-24-72, Cl. 238-349.000.
Jennings, Charles W., to Continental Can Company, Inc. Self-locking poultry box. 3,687,354, 8-29-72, Cl. 229-34.000.
Jennings, Doris E. Back scrubber. 3,674,374, 7-4-72, Cl. 401-8.000.
Jennings, Francis W.; Mulligan, William; Urquart, George M.; McIntyre, William I.; and Jarrett, William F. H., to University Court of the University of Glasgow. Canine hookworm vaccines. 3,657,415, 4-18-72, Cl. 424-88.
Jennings, Frederick A. Corrosion-inhibiting tool box. 3,642,998, 2-15-72, Cl. 21-2.5.
Jennings, George H. Fish alarm. 3,646,697, 3-7-72, Cl. 43-17.
Jennings, George H. Continuous production of aluminium sulphate. 3,667,905, 6-6-72, Cl. 23-123.000.
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Jennings, Lyston C., to General Signal Corporation. Pressure override for servo controlled pumps. 3,659,963, 5-2-72, Cl. 417-213.
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Jennings, Ralph L., to Economy Forms Corporation. Release plate for a collapsible culvert form. 3,693,927, 9-26-72, Cl. 249-11.000.
Jennings, Robert R., to Dow Chemical Company, The. Process for the secondary recovery of petroleum. 3,687,199, 8-29-72, Cl. 166-274.000.
Jennings, Thomas A.; and McNeill, William, to United States of America, Army. Negative ion generator. 3,705,998, 12-12-72, Cl. 313-161.000.
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Jennings, Walter B., Jr., to United States of America, Army. Multirod single pump source laser. 3,701,048, 10-24-72, Cl. 331-94.500.
Jennis, Murray, to Goodman, H., & Sons, Inc. Hinged barrettes. 3,705,591, 12-12-72, Cl. 132-48.00r.
Jenny, Hanns; and Kieslinger, Georges, to Sandoz Ltd; a/k/a Sandoz AG. Process for the production of nonwoven fabrics containing binders. 3,707,395, 12-26-72, Cl. 117-33.50t.
Jenny, Robert B., to McDonnell Douglas Corporation. Aircraft control system. 3,704,843, 12-5-72, Cl. 244-85.000.
Jenny, Robert W., to Boeing Company, The. Landing gear gravel and water deflector. 3,670,996, 6-20-72, Cl. 244-103.
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Jensen, Andrew O.: *See—*
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Jensen, David R., to J/D Scientific. Multi-magnet magnetic toy. 3,706,158, 12-19-72, Cl. 46-236.000.
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Jensen, Donald F.; Rickenbach, David H.; and Schaffer, Robert R., to International Business Machines Corporation. Packaging system for pneumatic logic. 3,658,088, 4-25-72, Cl. 137-561.
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Jensen, Einar W., to Eastman Kodak Company. Film processing apparatus for processing films of different type. 3,699,869, 10-24-72, Cl. 95-94.00r.
Jensen, Ellsworth O.: *See—*
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Jensen, Erik Kjaer, to Bristol-Myers Company. Heat storing hair roller. 3,696,819, 10-10-72, Cl. 132-33.00r.
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Jensen, Howard J.: *See—*
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Jensen, James R., to Pacific Car and Foundry Company. Spring brake control valve. 3,685,870, 8-22-72, Cl. 303-71.000.
Jensen, John C. Tractor frame structure. 3,661,223, 5-9-72, Cl. 180-54.
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Jensen, Jorgen Albrecht; and Jensen, Jorgen Gars, to Gram, Hans. Suction apparatus for body cavities. 3,661,144, 5-9-72, Cl. 128-2.
Jensen, Jorgen Bent; Jensen, Borge; Krohn, Rasmus; and Keldmann, Erik, to Bristol-Myers Company. Apparatus for heating of hairwinders. 3,700,853, 10-24-72, Cl. 219-222.000.
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Jensen, Leif Egon. Demodulator for frequency shift modulated signals. 3,684,969, 8-15-72, Cl. 329-104.000.
Jensen, Leo Anker. Electronic remote supervision and control of states and processes. 3,689,890, 9-5-72, Cl. 340-171.00r.
Jensen Machinery Inc.: *See—*
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Jensen, Marcus M. Environment contaminent control console. 3,665,917, 5-30-72, Cl. 128-2.
Jensen, Norman P.; Shen, Tsung-Ying; and Windholz, Thomas B., to Merck & Co., Inc. Method of inhibiting the formation of phenylethanalamine-N-methyl transferase with 2-aminobenzimidazoles. 3,655,901, 4-11-72, Cl. 424-273.
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Jensen, Preben W. Rolling joint mechanisms. 3,696,683, 10-10-72, Cl. 74-89.
Jensen, Reed J.; and Rice, Walter W., Jr., to United States of America, Atomic Energy Commission. Explosively driven pulsed chemical laser. 3,662,280, 5-9-72, Cl. 331-94.5.
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Jentsch, Christian Robert, to British Petroleum Company Limited, The. Preparation of unsaturated esters. 3,654,345, 4-4-72, Cl. 260-486.
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Jentsch, Dietrich; and Cleff, Herbert, to Dorken & Mankel KG. Door closer. 3,701,180, 10-31-72, Cl. 16-55.000.
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Jephcott, William C.: *See—*
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Jernigan, Ernest D., Jr., to Industrial Nucleonics Corporation. Radiation gauge for monitoring sheet properties employing a scanned source. 3,655,979, 4-11-72, Cl. 250-83.3.
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Jerome, Chester W. Apparatus for removing excess of material projecting from the true periphery of a bowling ball without modifying such true periphery. 3,675,535, 7-11-72, Cl. 90-11.00r.
Jeromin, Lothar S.; and Hoyt, Hazen L., III, to Xerox Corporation. Development apparatus for latent electrostatic images. 3,640,246, 2-8-72, Cl. 118-629.
Jeromson, James R., Jr.; and Kennelly, Robert W., to Weatherhead Company, The. Welding head with toggle clamp. 3,649,799, 3-14-72, Cl. 219-60.
Jerrold Electronics Corporation: *See—*
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Jesnitzer, Friedrich Erdmann; and Rehfeldt, Dietrich, to Redemat S.A. Apparatus for controlling electric welding processes. 3,679,865, 7-25-72, Cl. 219-131.00r.
Jespersen, A., & Son International A/S: *See—*
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Jespersen, Hans Jorgen, to Danfoss A/S. Valve, particularly a thermostatic expansion valve for refrigerating equipment. 3,695,577, 10-3-72, Cl. 251-61.400.
Jespersen, Herbert A., to Outboard Marine Corporation. All-terrain vehicle. 3,688,858, 9-5-72, Cl. 180-9.620.
Jespersen, Oliver. Electric vibraphone. 3,649,737, 3-14-72, Cl. 84-1.15.
Jespersen, Paul W. Dispenser for convention rolls of flexible sheet material. 3,690,580, 9-12-72, Cl. 242-55.300.
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Jessup, Artie D., to United States of America, National Aeronautics and Space Administration. Variable angle tube holder. 3,649,462, 3-14-72, Cl. 195-127.
Jessup, Richard J., to Udylite Corporation, The. Apparatus for electroplating workpieces. 3,674,673, 7-4-72, Cl. 204-213.000.
Jestrzemski, Fritz; Korbus, Dieter; and Schulze, Gerhard, to Steatit-Magnesia Aktiengesellschaft. Miniature spindle potentiometers and methods for producing such potentiometers. 3,634,805, 1-11-72, Cl. 338-180.
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Jeurissen, Lambert Gaston, to Gevaert-Agfa N.V. Process for preparation of polyesters of dicarboxylic acids and glycols in the presence of crystalline germanate catalysts. 3,654,234, 4-4-72, Cl. 260-75.
Jeurissen, Lambert Gaston; and Conix, Andre Jan, to Gevaert-Agfa N.V. Manufacture of polymers. 3,658,760, 4-25-72, Cl. 260-75.
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Jex, Henry R., to Systems Technology, Inc. Apparatus for determining eye point-of-regard. 3,664,731, 5-23-72, Cl. 351-7.
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Jilbert, Philip Harvey, to United Kingdom Atomic Energy Authority. Interface detection apparatus having a side arm detector with three electrodes. 3,656,055, 4-11-72, Cl. 324-61.

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Jimerson, Bruce D. Gametoy locomotion apparatus. 3,698,713, 10-17-72, Cl. 273-86.00e.

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Jingu, Tomoyasu; and Yamamoto, Tokio, to Diesel Kiki Kabushiki Kaisha. Centrifugal-type injection timing adjusting device for internal combustion engines. 3,654,776, 4-11-72, Cl. 64-25.

Jinnette, Allen J., to Burlington Industries, Inc. Bleaching procedure for fiberglass fabrics. 3,671,179, 6-20-72, Cl. 8-101.000.

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Jirka, Karl; Gutlhuber, Johann; and Straubing, Irlbach B., to Kunststoffwerk Gebruder Anger G.m.b.H. & Co. Sealed connector box for electrical cables. 3,705,950, 12-12-72, Cl. 174-138.00f.

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Joa, Curt G. Method of making a laminated mat from plies of fibrous pulp material. 3,673,021, 6-27-72, Cl. 156-62.400.

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Joannes, Giuseppe, to Gruppo Finanziario Termico Fin-Term S.p.A. Heat generator of the smoke-tube type. 3,672,336, 6-27-72, Cl. 122-149.

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Job, Brian Ernest; Pioli, Alexander Joseph Peter; and Medinger, Till, to Imperial Chemical Industries Limited. Polymerisation process. 3,654,254, 4-4-72, Cl. 260-94.9.

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Job, Claude; Landler, Yvan; Lebel, Pierre Henri; and Meillat, Lucile, to Pneumatiques Caoutchouc Manufacture et Plastiques Kleber-Colombes. Adhering rubbers and polyolefines by other than peroxide curing agents. 3,650,874, 3-21-72, Cl. 161-217.

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Jobe, Lowell A., to United States of America, Atomic Energy Commission. Flow rate control method. 3,633,597, 1-11-72, Cl. 137-8.

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Jochim, La Vergne C., to Ti-Mind Incorporated. Retarded clock device with pin ball type switch actuators. 3,684,843, 8-15-72, Cl. 200-35.00r.

Jochimsen, Dieter: *See—*
Kuehnle, Manfred R.; and Jochimsen, Dieter, 3,697,176.
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Jochimsen, William George: *See—*
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Jochmann, Leonard, to International Standard Electric Corporation. Method of and an apparatus for determining the bond strength between the metallic sheath and the non-metallic jacket of a cable. 3,683,682, 8-15-72, Cl. 73-88.00b.

Jochum, Peter: *See—*
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Jocteur, Robert, to Cable de Lyon Alsacienne. Corrugated metal tube for an external conductor or sheath of an electric cable. 3,667,506, 6-6-72, Cl. 138-156.

Jodrey, Robert M.: *See—*
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Joe, Edwin Glendon: *See—*
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Joel, Amos Edward, Jr., to Bell Telephone Laboratories, Incorporated. Switching of time division multiplex lines through telephone central offices. 3,652,803, 3-28-72, Cl. 179-18.

Joel, Amos Edward, Jr., to Bell Telephone Laboratories, Incorporated. Mobile communication system. 3,663,762, 5-16-72, Cl. 179-41.

Joel, Amos Edward, Jr., to Bell Telephone Laboratories, Incorporated. Switching of time division multiplex lines and analog trunks through telephone central offices. 3,673,335, 6-27-72, Cl. 179-15.0aq.

Joel, Henry G., to Olivetti, Ing., C., & C., S.p.A. Remote illuminating apparatus. 3,702,930, 11-14-72, Cl. 240-41.35r.

Joele, Hector, to Cincinnati Milacron, Inc. Hopper feed device. 3,702,663, 11-14-72, Cl. 221-167.000.

Joelson, Carl R. Method for producing concrete pipe. 3,696,182, 10-3-72, Cl. 264-72.000.

Joens, Allan D.; Johnson, Robert W.; and Riggle, Michael. Remote alarm system. 3,668,675, 6-6-72, Cl. 340-224.

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Joesting, Frederick D., to Honeywell Inc. Multi-unit pneumatic control system. 3,672,567, 6-27-72, Cl. 236-1.00c.

Joguet, Jean-Claude: *See—*
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Johan, Bengt Olof; and Morner, Stellan, to Mediplast AB. Apparatus for destroying hypodermic needles, needle-equipped ampules, hypodermic syringes and the like. 3,683,733, 8-15-72, Cl. 83-199.000.

Johannes, Gunter: *See—*
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Johannesson, Nils Olof: *See—*
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Johannisson, Dag Olof Alfred; and Lundberg, Gustaf Silas Staffan, to AGA Aktiebolag. Gas evacuator for breathing apparatus. 3,662,774, 5-16-72, Cl. 137-115.

Johannisson, Dag Olof Alfred, to AGA Aktiebolag. Humidification equipment for gases. 3,677,527, 7-18-72, Cl. 261-76.000.

Johannsen, Bruno Bernhardt; and Cox, Robert Earl, to Deere & Company. Reversible disk plow. 3,656,556, 4-18-72, Cl. 172-212.

Johannsen, Peter; and Kohler, Robert, to Continental Gummi-Werke Aktiengesellschaft. Emergency supporting ring for vehicle wheels with pneumatic tires. 3,682,218, 8-8-72, Cl. 152-158.000.

Johannsen, Werner Hans: *See—*
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Johannsmeier, Karl-Heinz; Stoft, Paul E.; and Larsen, Tor G., said Larsen assor. to Kasper Instruments Inc. Apparatus for the automatic alignment of two superimposed objects, E. G. a semiconductor wafer and mask. 3,683,195, 8-8-72, Cl. 250-219.0dr.

Johannsmeier, Karl-Heinz. Wafer loading apparatus. 3,700,567, 10-24-72, Cl. 29-203.00r.

Johannsmeier, Karl-Heinz. Optical alignment and contact printing system with improved chuck assembly. 3,705,769, 12-12-72, Cl. 355-91.000.

Johansen, Alfred M. Shirt button accessory. 3,683,459, 8-15-72, Cl. 24-40.000.

Johansen, Bent Georg, to Bristol-Myers Company. Hairwinder. 3,706,315, 12-19-72, Cl. 132-33.00r.

Johansen, Birger Johan Walther, to Birton Klima- Og Koleteknik I/S. Steam generators. 3,682,141, 8-8-72, Cl. 122-451.00r.
Johansen, Henry Albert. Resealing device. 3,656,667, 4-18-72, Cl. 222-561.000.
Johansen, Oddvar, to Nobo Fabrikker A/S. Room-temperature regulator for electric heaters. 3,651,307, 3-21-72, Cl. 219-505.
Johanson, Edwin S.; Wolk, Ronald H.; and Johnson, Clarence A., to Hydrocarbon Research, Inc. Hydrogenation of low rank coal. 3,700,584, 10-24-72, Cl. 208-10.000.
Johanson, John E., to Johanson Manufacturing Corporation. Variable disk capacitors. 3,701,932, 10-31-72, Cl. 317-254.000.
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Johansson, Arnold Johannes, to Aktiebolaget Bofors. Device for particularly continuous checking and/ or indication of curvatures arising in gun barrels. 3,684,383, 8-15-72, Cl. 356-154.000.
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Johansson, Bengt; and Nilsson, Erland, to Allmanna Svenska Elektriska Aktiebolaget. Spark gap for surge diverters. 3,704,388, 11-28-72, Cl. 315-36.000.
Johansson, Ernst Lennart; Lumen, Karl Lennart Gosta; and Lundstrom, Hans Per Olof, to Sandvikens Jernverks Aktiebolag. Coupling thread for percussion drill rods. 3,645,570, 2-29-72, Cl. 287-117.
Johansson, Hans A. V. Bath litter for therapeutical treatment. 3,675,255, 7-11-72, Cl. 5-82.000.
Johansson, Hans Arne. Bath system, particularly for wheel-chair constrained disabled persons. 3,662,409, 5-16-72, Cl. 4-145.
Johansson, Hans Arne Valendier, to Mo och Domsjo Aktiebolag. Tray-like stackable container. 3,701,467, 10-31-72, Cl. 229-31.00r.
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Johansson, Rolf Anders. Apparatus for slip-forming. 3,705,776, 12-12-72, Cl. 425-65.000.
Johansson, Rolf Arne Reinhold. Device for adjustable fixing of an element to a fixed element. 3,667,338, 6-6-72, Cl. 85-41.000.
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Johmann, Frank T. Dice throwing doll. 3,684,291, 8-15-72, Cl. 273-145.00r.
Johmann, Frank T. Pointer spinning mechanical dolls. 3,705,726, 12-12-72, Cl. 273-151.00a.
John Andrew, to Hercules Incorporated. Blends of polypropylene with hydrogenated hydrocarbon resins. 3,666,836, 5-30-72, Cl. 260-897.00a.
John, Ansel N. One step lock and release cycle stand. 3,675,784, 7-11-72, Cl. 211-22.000.
John, Claus, to Danfoss A/S. Electric switch with a snap-action system. 3,656,081, 4-11-72, Cl. 337-346.
John, E. Roy; and Laupheimer, Robert. Method and system for brain wave analysis. 3,696,808, 10-10-72, Cl. 128-2.10b.
John, Erwin Roy, to Neuro-Data, Inc. Signal averager. 3,705,297, 12-5-72, Cl. 235-150.530.
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John, Willibald; Schmalfeld, Paul; Lange, Paul; and Rammler, Roland, to Metallgesellschaft Aktiengesellschaft. Continuous process of producing shaped metallurgical coke. 3,700,564, 10-24-72, Cl. 201-6.000.
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Johnes, Alfred W.; Murtland, James B., Jr.; and Rockwell, Perry Marvin, to Allegheny Ludlum Industries, Inc. Control system for hydraulic extrusion press. 3,649,816, 3-14-72, Cl. 235-151.1.
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Johnsen, Eric C.; Polk, William M.; and Brockman, Robert A., to Gem Products, Inc. Motor current relay. 3,681,722, 8-1-72, Cl. 335-202.000.

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Johnsen, Erich Cornelius, to Eltico Manufacturing Ltd. Tire air pressure detection and signalling device. 3,665,388, 5-23-72, Cl. 340-58.

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Johnsen, Leif, to A/S Raufoss Ammunisjonsfabrikker. Joints for high tension lines, cables and the like. 3,684,820, 8-15-72, Cl. 174-90.000.

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Johnson, Alexander Lawrence, to Du Pont de Nemours, E. I., and Company. 1-(Alkylsubstituted phenyl) imidazoles useful in ACTH reserve assay. 3,637,731, 1-25-72, Cl. 260-309.

Johnson, Alford H., to Huffman, S. E., Corporation. Method and apparatus for grinding end cutting tools. 3,680,263, 8-1-72, Cl. 51-96.000.

Johnson, Alfred D., to Sylvania Electric Products, Inc. Cathode ray tube faceplate having diverse optical means therein. 3,668,387, 6-6-72, Cl. 313-92.00r.

Johnson, Allan M.; and Gilman, Richard F., to CCI Aerospace Corporation. Electrodialysis demineralization apparatus. 3,697,410, 10-10-72, Cl. 204-301.000.

Johnson, Allan M., to CCI Aerospace Corporation. Method and apparatus for regenerating the dialyzing fluid for an artificial kidney. 3,697,418, 10-10-72, Cl. 210-22.000.

Johnson, Allie A. Fluent material weighing system. 3,680,649, 8-1-72, Cl. 177-99.000.

Johnson, Alvin C.; and Inks, Clyde G., to Wyandotte Chemicals Corporation. Water soluble compositions resistant to shear degration of the polymer thereof. 3,634,305, 1-11-72, Cl. 260-33.4.

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Johnson, Bennie R. Integral casket handle and base with concealed hinge. 3,698,037, 10-17-72, Cl. 16-112.000.
Johnson, Bennie R. Casket handle retained by spreadable webs. 3,699,611, 10-24-72, Cl. 16-114.000.
Johnson, Bernard G. Adjustable corrugated shipping container and or adjustable cardboard shipping carton. 3,672,558, 6-27-72, Cl. 229-37.00r.
Johnson, Bernt. Device for mounting and demounting a bit. 3,641,655, 2-15-72, Cl. 29-243.
Johnson, Billie J. Method and means for making a carbon pattern on a flexible printing plate. 3,646,884, 3-7-72, Cl. 101-33.
Johnson, Bobby G. Insulated prefabricated building module. 3,643,394, 2-22-72, Cl. 52-309.
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Johnson, Bruce K., to Polaroid Corporation. Apparatus for copying photographic transparencies. 3,653,760, 4-4-72, Cl. 355-39.
Johnson, Bruce K., to Polaroid Corporation. Self-cocking photographic shutter. 3,659,513, 5-2-72, Cl. 95-59.
Johnson, Bruce K., to Polaroid Corporation. Photographic apparatus for processing film material. 3,672,275, 6-27-72, Cl. 95-13.000.
Johnson, Bruce K., to Polaroid Corporation. Camera system for recording plurality of images on a photographic sheet. 3,683,764, 8-15-72, Cl. 95-1.100.
Johnson, Bruce K., to Polaroid Corporation. Exposure control mechanism with mechanical flash synchronization. 3,687,034, 8-29-72, Cl. 95-11.50r.
Johnson, Bruce K., to Polaroid Corporation. Safety override for flash lamp indexing components of an exposure mechanism. 3,688,660, 9-5-72, Cl. 95-11.00l.
Johnson, Burnett H., to Esso Research and Engineering Company. Olefin polymerization to yield predominantly dimers and trimers. 3,642,932, 2-15-72, Cl. 260-683.1.
Johnson, Byron Lee: *See—*
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Johnson, Calvin Keith, to CPC International Inc. Resin coated sand. 3,692,733, 9-19-72, Cl. 260-38.000.
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Johnson, Carl V.; and Leisio, Reino, to Technicon Corporation. Apparatus for simultaneously controlling the flow of fluids in a plurality of flow paths. 3,650,296, 3-21-72, Cl. 137-624.18.
Johnson, Carl W.: *See—*
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Johnson, Cecil J., to Total Energy Corporation. Method of operating a drier. 3,635,455, 1-18-72, Cl. 263-52.
Johnson, Cecil J., to Total Energy Corporation. Method of gasifying carbonaceous materials to a carbon monoxide fuel gas product. 3,635,672, 1-18-72, Cl. 23-204.
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Johnson, Charles B. Foot rest structure for beds. 3,638,250, 2-1-72, Cl. 5-327.
Johnson, Charles E., to Procter & Gamble Company, The. Detergent composition containing proteolytic enzyme elaborated by thermoactinomyces vulgaris ATCC 15734. 3,707,504, 12-26-72, Cl. 252-135.000.
Johnson, Charles H.: *See—*
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Johnson, Charles J. Fold-up flat topped supports. 3,704,674, 12-5-72, Cl. 108-118.000.
Johnson, Charles R., to Firestone Tire & Rubber Company, The. Process for the polymerization of conjugated dienes. 3,681,304, 8-1-72, Cl. 260-83.700.
Johnson, Charles R.; and Moosavian, Seid H., to Firestone Tire & Rubber Company, The. Method of removing volatiles from an elastomer. 3,683,511, 8-15-72, Cl. 34-9.000.
Johnson, Charles R.; and Henderson, Jack F. Utensil for use in cooking tortillas. 3,693,537, 9-26-72, Cl. 99-426.000.
Johnson, Charles W.; d/b/a Putter-Craft Company: *See—*
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Johnson, Christopher Linley; and Whitmarsh, John Robert William, to Rolls-Royce Limited. Gas turbine engine fuel control system. 3,648,460, 3-14-72, Cl. 60-243.
Johnson, Clair A., to Texas Instruments, Incorporated. Alloying method. 3,680,199, 8-1-72, Cl. 29-498.000.
Johnson, Clair Allen, to Texas Instruments, Incorporated. Method of housing semiconductors. 3,657,805, 4-25-72, Cl. 29-589.
Johnson, Clarence. Weighing apparatus. 3,656,569, 4-18-72, Cl. 177-210.
Johnson, Clarence A.: *See—*
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Johnson, Clarence S.: *See—*
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Johnson, David John, to Holmes, M., Manufacturing & Equipment, Ltd. Tire vulcanizing machine. 3,701,615, 10-31-72, Cl. 425-23.000.
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Johnson, Donald L. Method of jet breaking veneer to narrow wood flakes. 3,670,791, 6-20-72, Cl. 144-326.00a.
Johnson, Donald L. Method for improved production of wood flakes. 3,695,320, 10-3-72, Cl. 144-326.000.
Johnson, Donald Owen: *See—*
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Johnson, Donald W., to Snyder Manufacturing Company, Inc. Small animal anesthesia machine. 3,687,137, 8-29-72, Cl. 128-188.000.
Johnson, Douglas, to General Motors Corporation. Casing joint. 3,655,223, 4-11-72, Cl. 285-39.
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Johnson, Duane M.; and Razelton, Donald R., to United States of America, Navy. Pyrotechnic composition. 3,698,968, 10-17-72, Cl. 149-19.000.
Johnson, Dwight N., to Singer Company, The. Pressure reducing regulator. 3,664,369, 5-23-72, Cl. 137-484.400.
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Johnson, Edward B. Silver recovery from photographic wastes. 3,671,222, 6-20-72, Cl. 75-83.000.
Johnson, Edward J., Jr., to Polaroid Corporation. Silver diffusion transfer process with mercapto-purine antifoggant. 3,642,473, 2-15-72, Cl. 96-29.
Johnson, Edward J., Jr., to Polaroid Corporation. Diffusion transfer process utilizing 2-mercapto imidazoles. 3,698,900, 10-17-72, Cl. 96-29.000.
Johnson, Edward P., to Earl and Wright. Deep sea mining method and apparatus. 3,672,725, 6-27-72, Cl. 299-8.000.
Johnson, Edwin L. Buckle. 3,703,024, 11-21-72, Cl. 24-68.0cd.
Johnson, Edwin W., to Westinghouse Electric Corporation. Covered welding electrode. 3,645,782, 2-29-72, Cl. 117-205.
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Johnson, Ernest D., to Goodyear Tire & Rubber Company, The. Passenger conveyor warning apparatus. 3,685,635, 8-22-72, Cl. 198-16.000.
Johnson, Ernest D., to Goodyear Tire & Rubber Company, The. Threshold comb for passenger conveyor. 3,687,257, 8-29-72, Cl. 198-16.000.
Johnson, Ernest D., to Goodyear Tire & Rubber Company, The. Passenger conveyor landing. 3,698,535, 10-17-72, Cl. 198-16.00r.
Johnson, Ernest E. Electrical outlet trolley. 3,680,030, 7-25-72, Cl. 339-2.00r.
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Johnson, Ernest W., to General Mills, Inc. Artificial flavored berries and process of preparing same. 3,682,654, 8-8-72, Cl. 99-103.000.
Johnson, Everett A.; and Silverman, Daniel. Method and apparatus for authentication of information records. 3,677,465, 7-18-72, Cl. 235-61.70r.
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Johnson, Frederick S., 3/4 to Consolidated Concrete Limited. Concrete pump. 3,647,325, 3-7-72, Cl. 417-508.
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Johnson, George R., to Arpax Company, The. Resilient cushioning dunnage product for use in packaging and packing. 3,655,500, 4-11-72, Cl. 161-104.
Johnson, George R., to Arpax Company, The. Method of assembling a collapsible, reuseable container utilizing an inverted three sided pyramidal shaped trough support fixture. 3,705,062, 12-5-72, Cl. 156-69.000.
Johnson, George S., to International Telephone and Telegraph Corporation. Hermaphorodit electrical connector. 3,676,833, 7-11-72, Cl. 339-49.000.
Johnson, Gerald Frederick, to Grain Processing Corporation. Carton and package. 3,642,125, 2-15-72, Cl. 206-47.
Johnson, Glenn B.; and Petering, John L., to Air Products and Chemicals, Inc. Cryogenic storage dewar. 3,698,200, 10-17-72, Cl. 60-45.000.
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Johnson, Harold M.; and Page, Russel D., to Caterpillar Tractor Company. Hydraulic motor grader blade lift, centershift control. 3,677,350, 7-18-72, Cl. 172-789.000.
Johnson, Harold R., to Johnson, H. R., Construction Co., Inc. Luggage carrier and boat structure. 3,684,139, 8-15-72, Cl. 224-42.010.
Johnson, Harry B., to GAF Corporation. Roofing factory fume and solid waste disposal system. 3,662,695, 5-16-72, Cl. 110-8.00r.
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Johnson, Henry V., to United States of America, Army. Buoy. 3,674,225, 7-4-72, Cl. 244-31.000.
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Johnson, James C.; and Neider-Westermann, Winfried, to Westinghouse Electric Corporation. Air return scoop for air handling luminaires. 3,668,998, 6-13-72, Cl. 98-40.0dl.
Johnson, James C., to Hunt Electronics Company. Light dimming system having multiple control units. 3,697,821, 10-10-72, Cl. 317-148.500.
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Johnson, James W., to Telephonic Equipment Corporation. Spike monitoring apparatus. 3,676,605, 7-11-72, Cl. 179-18.0be.
Johnson, Jay; and Gardner, Charles R., to Republic Corporation. Liquid proportioning device. 3,650,434, 3-21-72, Cl. 222-31.
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Johnson, John David. Property boundary marker. 3,685,237, 8-22-72, Cl. 52-98.000.
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Johnson, Joseph A., to Jomar Industries, Inc. Multiple injection blow molding machine. 3,694,121, 9-26-72, Cl. 425-168.000.
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Johnson, Junior L., to Smith, A. O., Corporation, mesne. Plastic article having ultraviolet reflective properties. 3,652,375, 3-28-72, Cl. 161-158.
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Johnson, Kenneth; and Lense, Robert F., to Rexham Corporation, mesne. Packaging machine for forming and filling bags of different lengths and widths. 3,700,388, 10-24-72, Cl. 53-183.000.
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Johnson, Kermit B., to Hydraulic Products Corporation. Adjustable hydraulic shock absorber. 3,693,767, 9-26-72, Cl. 188-287.000.
Johnson, Larry K.; and McNinch, Delmar D., to Lawrence Brothers, Inc. Door pivot assembly. 3,662,429, 5-16-72, Cl. 16-151.
Johnson, Lauren L., to General Motors Corporation. Commuting reactor for a three-phase inverter. 3,688,182, 8-29-72, Cl. 321-45.00c.
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Johnson, Marvin M.; Tabler, Donald C.; and Nowack, Gerhard P., to Phillips Petroleum Company. Selective isomerization employing metal arsenide catalyst. 3,697,448, 10-10-72, Cl. 252-464.000.
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Johnson, Olin B.; and Labana, Santokh S., to Ford Motor Company. Acrylic rubber-urethane-acrylate paint and painting process. 3,660,143, 5-2-72, Cl. 117-93.31.
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Johnson, Olin B.; and Labana, Santokh S., to Ford Motor Company. Epoxy resin and acrylic rubber-urethane-acrylate paint and painting process. 3,660,145, 5-2-72, Cl. 117-93.31.
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Johnson, Olin B.; and Labana, Santokh S., to Ford Motor Company. Unsaturated polyester-hydroxy functional, graded rubber paint and process. 3,689,308, 9-5-72, Cl. 117-93.310.
Johnson, Olin B.; and Labana, Santokh S., to Ford Motor Company. Epoxy-vinyl copolymer and graded-rubber paint and process. 3,689,309, 9-5-72, Cl. 117-93.310.
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Johnson, Olin B.; and Labana, Santokh S., to Ford Motor Company. Epoxy resin and graded acrylic rubber-urethane-acrylate paint and painting process. 3,697,312, 10-10-72, Cl. 117-93.310.
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Johnson, Ray M., to Cryodry Corporation. System for applying microwave energy to a lossy cylindrical object. 3,665,142, 5-23-72, Cl. 219-10.550.
Johnson, Ray M., to Cryodry Corporation. Microwave applicator system with cylindrical resonant cavity. 3,673,370, 6-27-72, Cl. 219-10.55.
Johnson, Ray M. Continuous microwave heating or cooking system and method. 3,688,068, 8-29-72, Cl. 219-10.550.
Johnson, Ray M. Waveguide power switch having alternating close shorting plates. 3,697,894, 10-10-72, Cl. 333-7.000.
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Johnson, Rayner S., to Du Pont de Nemours, E. I., and Company. Compound 3-(p-bromophenyl)-1-methyl-1-methoxyurea. 3,707,493, 12-26-72, Cl. 260-453.00r.
Johnson, Richard A.; Jensen, Charles E.; and Renskers, John O., to Coilcraft, Inc. Coil form and carrier strip. 3,666,090, 5-30-72, Cl. 206-56.0ab.
Johnson, Richard Bruce; and Winn, George, to Rosen, Jacob J. Doll having a substantially seamless foamed integral torso and neck portion. 3,699,714, 10-24-72, Cl. 46-156.000.
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Johnson, Robert A., to Interlake Steel Corporation. Coil tightener. 3,662,678, 5-16-72, Cl. 100-4.
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Johnson, Robert M.; Toby, Dennis E.; and Koch, Robert M., said Toby and said Koch assors. to Addressograph-Multigraph Corporation. Liquid developing apparatus. 3,704,661, 12-5-72, Cl. 95-89.00r.
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Johnson, Robert Norman; Karol, Frederick John; and Pilato, Louis Anthony, to Union Carbide Corporation. Olefin polymerization using di-tertiary polyalicyclic chromate ester catalyst systems. 3,642,749, 2-15-72, Cl. 260-88.2.
Johnson, Robert Norman, to Union Carbide Corporation. High temperature reduced catalyst and process. 3,704,287, 11-28-72, Cl. 260-94.9da.
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Johnson, Ronald R. Fishing device, especially for ice fishing. 3,660,923, 5-9-72, Cl. 43-17.
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Jones, David P., to Construction Products Corporation. Manhole ladder step unit. 3,703,219, 11-21-72, Cl. 182-46.000.
Jones, David P. Alignment assembly. 3,707,043, 12-26-72, Cl. 33-185.00r.
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Jones, Dennis Glyn, to Kennametal Inc. Cutting tool. 3,688,366, 9-5-72, Cl. 29-96.000.
Jones, Derek; and Hayes, Woodrow L., to Singer-General Precision, Inc. Lead screw coupling. 3,652,043, 3-28-72, Cl. 248-1.
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Jones, Derrick A., to Minnesota Mining and Manufacturing Company. High reduction camera and locating apparatus. 3,677,161, 7-18-72, Cl. 95-45.000.
Jones, Don R., to Silicon Technology Corporation. Work mounting mechanism in slicing machine. 3,702,604, 11-14-72, Cl. 125-14.000.
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Jones, Donald C., to American Optical Corporation. Method for making integral ophthalmic lens. 3,632,696, 1-4-72, Cl. 264-1.
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Jones, Doyle P.; Kohrn, Robert C.; and Perkins, Donald V., to Uniroyal, Inc. Mechanical and thermal damage protection and insulation materials usable therefor. 3,669,299, 6-13-72, Cl. 220-10.
Jones, Duane A.; Fanta, George F.; and Burr, Robert C., to United States of America, Agriculture. Flocculants from starch graft copolymers. 3,669,915, 6-13-72, Cl. 260-17.4gc.
Jones, Edward Barry; and Mather, John, to Imperial Chemical Industries Limited. Fibre-forming polymers. 3,646,108, 2-29-72, Cl. 260-473.
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Jones, Edwin K., to Universal Oil Products Company. Apparatus for contacting a liquid with a vapor. 3,658,306, 4-25-72, Cl. 261-114.
Jones, Edwin K., to Universal Oil Products Company. Heat exchange apparatus. 3,690,839, 9-12-72, Cl. 23-260.000.
Jones, Edwin K., to Universal Oil Products Company. Apparatus for a catalytic reaction. 3,705,017, 12-5-72, Cl. 23-288.00e.
Jones, Elborn W., Jr., to Allis-Chalmers Manufacturing Company. Front end suspension. 3,700,256, 10-24-72, Cl. 280-87.00r.
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Jones, Ewart Ray Herbert; Meakins, George Denis; and Clegg, Andres Samuel, to Glaxo Laboratories Limited. Oxidation of steroids. 3,692,629, 9-19-72, Cl. 195-51.00r.
Jones, Faber B.: *See—*
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Jones, Frank D. Lloyd, to Deere & Company. Self-propelled agricultural machine. 3,673,775, 7-4-72, Cl. 56-14.700.
Jones, Frank N.; and Richardson, Ronald D., to Du Pont de Nemours, E. I., and Company. Thermally stable 2-perfluoro-substituted benzothiazoles. 3,666,769, 5-30-72, Cl. 260-304.
Jones, Freeman B.; and Labana, Santokh S., to Xerox Corporation. Photoelectrophoretic imaging processes using bisazo pigments. 3,658,675, 4-25-72, Cl. 204-181.
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Jones, Gordon H.: *See—*
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Jones, Harry S., to Chrom-Tronics, Inc. Relief camera construction. 3,683,772, 8-15-72, Cl. 95-18.00p.

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Jones, Helen S. Set-in sleeve former. 3,653,135, 4-4-72, Cl. 38-135.

Jones, Henry F. Ring puzzle with changeable number of rings. 3,706,458, 12-19-72, Cl. 273-158.000.

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Jones, James A. Automobile anti-theft alarm and control unit. 3,654,602, 4-4-72, Cl. 340-64.

Jones, James A. Teaching device. 3,688,417, 9-5-72, Cl. 35-31.00a.

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Jones, James F., to Burns & Russell Company, The. Method of facing masonry blocks. 3,632,725, 1-4-72, Cl. 264-256.

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Jones, James L., to United States of America, National Aeronautics and Space Administration. Stereoscopic television system and apparatus. 3,670,097, 6-13-72, Cl. 178-6.500.

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Jones, James W., to Compac Engineering Inc. Switch with housing of sealed rigid and thermal plastic members. 3,651,297, 3-21-72, Cl. 200-168.

Jones, James W., to International Telephone and Telegraph Corporation. Adaptive matched filter for radar signal detector in the presence of colored noise. 3,668,702, 6-6-72, Cl. 343-5.00r.

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Jones, John Leslie, Sr. Personnel restraint system for vehicular occupants. 3,690,695, 9-12-72, Cl. 280-150.0ab.

Jones, John Leslie, Sr. Waste fluid flow control element. 3,693,622, 9-26-72, Cl. 128-290.00r.

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Jones, John M., Jr. Apparatus for processing shrimp and related shellfish. 3,703,746, 11-28-72, Cl. 17-71.000.

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Jones, John Robert; and Symes, Thomas J., to British Petroleum Company Limited, The. Nickel dimerisation catalysts. 3,644,562, 2-22-72, Cl. 260-683.15.

Jones, John T.; Ludt, William C.; and Kellogg, Hudson W., to Ethyl Corporation. Automatic antiknock rating and adjustment apparatus. 3,690,851, 9-12-72, Cl. 44-2.000.

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Jones, John Walter, to General Descaling Company, Limited. Bidirectional pipeline pig. 3,685,083, 8-22-72, Cl. 15-104.06r.

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Jones, Joseph H.: *See—*
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Jones, Keith W., to Northern Technical Services, Inc. Load-registry device. 3,707,076, 12-26-72, Cl. 73-141.00a.
Jones, Kenneth; Joscelyne, Eric H.; and Burmah Oil Trading Limited. Solvent transference of a solute by distillation in the presence of a second solvent. 3,682,781, 8-8-72, Cl. 203-60.000.
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Jones, Kenneth W., to Hycalog, Inc. Drilling apparatus. 3,695,370, 10-3-72, Cl. 175-106.000.
Jones, Lawrence R., to Commercial Solvents Corporation. Nitroalkane or nitroalkanol complex with alkyl-tin oxide or alkyl-tin chloride. 3,650,984, 3-21-72, Cl. 260-429.7.
Jones, Lawrence R., to Commercial Solvents Corporation. Organozinc alkanolamine complex for stabilizing vinyl halide resins. 3,652,619, 3-28-72, Cl. 260-429.9.
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Jones, Lloyd G., to Mobil Oil Corporation. In-situ combustion process using time-dependent shear-thinning liquid barrier. 3,637,013, 1-25-72, Cl. 166-257.
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Jones, Louis F., to United States of America, Navy. Torpedo guidance system. 3,643,616, 2-22-72, Cl. 114-21.
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Jones, Loyd W., to Pan American Petroleum Corporation. Corrosion inhibitor containing sulfurized tall oil. 3,703,477, 11-21-72, Cl. 252-391.000.
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Jones, Marvin R., to Cameron Iron Works, Inc. Remotely located apparatus for producing well fluids. 3,646,962, 3-7-72, Cl. 137-594.
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Jones, Philip Michael; and Walsh, Raymond Herbert, to United Kingdom Atomic Energy Authority. Nuclear reactor means for minimizing lateral vibrations. 3,674,636, 7-4-72, Cl. 176-77.000.
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Jones, Richard B., to Perfect Films & Chemical Corporation. Cassette camera. 3,631,783, 1-4-71, Cl. 95-31.
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Jones, Robert F. Tension relaxing device for feeding filling threads to a warp knitting machine. 3,636,731, 1-25-72, Cl. 66-84.
Jones, Robert L., 1/2 to Palm, James T. Mold for casting concrete panels. 3,702,180, 11-7-72, Cl. 249-188.000.
Jones, Robert Louis, to Safety Lift Corporation. Safety brake unit for a mine cage. 3,695,396, 10-3-72, Cl. 187-89.000.
Jones, Robert S. Grinding machinery and methods. 3,646,708, 3-7-72, Cl. 51-5.
Jones, Robert W.: *See*—
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Jones, Roger B.; and Smith, Raymond B., to Kidde, Walter, & Company, Inc. Discrete heat detecting system using a thermistor detecting element. 3,643,245, 2-15-72, Cl. 340-228.
Jones, Ronald E.: *See*—
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Jones, Roy A. Article of manufacture. 3,648,659, 3-14-72, Cl. 119-1.
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Jones, Terence Leslie: *See*—
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Jones, Thomas Alwyn: *See*—
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Jones, Thomas E.: *See*—
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Jones, Thomas Ivor: *See*—
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Jones, Thomas M.; and Frazier, Alva W., to Tennessee Valley Authority. Elimination of magnesium gels in liquid and suspension fertilizers derived from wet acid. 3,697,247, 10-10-72, Cl. 71-34.000.
Jones, Virgil J.: *See*—
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Jones, Warren E.: *See*—
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Jones, William Archibald, to Deere & Company. Mower blade. 3,643,409, 2-22-72, Cl. 56-295.
Jones, William C.; and Kootsey, Joseph Mailen, to Jones Medical Instrument Company. Respiration testing system. 3,659,590, 5-2-72, Cl. 128-2.08.
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Jones, William J., to Westinghouse Electric Corporation. Oxygen consumption rate monitor. 3,698,384, 10-17-72, Cl. 128-2.070.
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Jones, William P., to Dresser Industries, Inc. Oxidation resistant graphite and carbon shapes. 3,666,555, 5-30-72, Cl. 117-228.000.
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Hartmann, Clinton S.; and Jones, William S., 3,686,518.
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Jonjo, Mikio; and Furukawa, Yoshiyasu, to Takeda Chemical Industries, Ltd. Method for production of cytidine (or deoxycytidine)-5'-diphosphate choline and intermediates therefor. 3,666,748, 5-30-72, Cl. 260-211.5.
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Jonsson, Finn Lennart; Trolle, Sten; and von Platen, Baltzar Carl, to Etablissement Radiator. High-pressure apparatus. 3,674,403, 7-4-72, Cl. 425-330.000.
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Jonsson, Nils Ingvar: *See*—
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Jonsson, Ragnar Georg, to U.S. Philips Corporation, mesne. Device for generating a variable low frequency A.C. current using pulse sampling techniques. 3,638,088, 1-25-72, Cl. 318-227.
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Joosten, Hendrik, to Bata Shoe Company, Inc. Apparatus for immersing lasted boots in a liquid bath. 3,670,698, 6-20-72, Cl. 118-425.000.
Joosten, Joseph W. Portable band saw. 3,658,102, 4-25-72, Cl. 143-27.
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Jope, Bruce T.; and Phillips, Alan R., to Monsanto Company. Trim in place thermoforming apparatus. 3,640,666, 2-8-72, Cl. 425-302.
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Jordan, David B., to Fairchild Industries, Inc. Control apparatus having a finger operated dual motion control device. 3,701,288, 10-31-72, Cl. 74-471.0xy.

Jordan, David Paul, to International Nickel Company, Inc., The. Nickel alkoxide compounds and process for preparation thereof. 3,632,825, 1-4-72, Cl. 260-439.
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Jordan, Edward Graham: *See*—
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Jordan, George V., to Selas Corporation of America. Filter tubes in a resilient holder. 3,664,507, 5-23-72, Cl. 210-323.
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Jordan, John E., to Tennessee Valley Authority. Production of oil-prilled fertilizer materials. 3,703,364, 11-21-72, Cl. 71-29.000.
Jordan, John F.; Brean, John W.; and Mathevosian, Yervand, to Baldwin, D. H., Company. Photoelectrically-controlled rear-view mirror. 3,680,951, 8-1-72, Cl. 350-281.000.
Jordan, Larry Lee, to General Motors Corporation. Glass-polysilicon dielectric isolation. 3,689,357, 9-5-72, Cl. 161-119.000.
Jordan, Leslie H.; and Arden, John. Vacuum operated timing device with solenoid closable vent in valve chamber. 3,639,711, 2-1-72, Cl. 200-83.
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Jordan, Lewis W.; and Cerniway, Leon A., to Janco Corporation. Bi-directional selector switch with slidable pawl transverse to plunger axis and ratchet wheel plane. 3,654,413, 4-4-72, Cl. 200-156.
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Jordan, Mickey S. Multiple heating pad assembly. 3,634,655, 1-11-72, Cl. 219-527.
Jordan, Paul V.; Palmieri, John A.; and Wade, William T., to International Business Machines Corporation. Read only memory and method of using same. 3,678,475, 7-18-72, Cl. 340-173.0sp.
Jordan, Paul V., to International Business Machines Corporation. Transistor logic circuit. 3,699,362, 10-17-72, Cl. 307-300.000.
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Jordan, Thomas M., Jr., to General Electric Company. Video shading modulator with paraphase control signals applied respectively to variable impedance devices in series and in parallel with the video signal path. 3,674,927, 7-4-72, Cl. 178-7.200.
Jordan, Tommy V., Jr. Machine for removing chicken waste. 3,662,420, 5-16-72, Cl. 15-93.00b.
Jordan, Wesley A., to General Mills, Inc. Thickener nitroparaffins. 3,666,577, 5-30-72, Cl. 149-89.
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Jordan, William E., to Xerox Corporation. Roller retraction mechanism in a multiple roller belt assembly. 3,694,068, 9-26-72, Cl. 355-3.000.
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Jordan, William E., to Xerox Corporation. Web sensing mechanism for tracking systems. 3,698,540, 10-17-72, Cl. 198-202.000.
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Joseph, Robert John, to Xerox Corporation. Apparatus for treating the surface of an electrostatographic imaging plate. 3,664,300, 5-23-72, Cl. 118-637.
Josephart, David, 1/2 to Harris, Max. Lock for windows and doors. 3,668,906, 6-13-72, Cl. 70-90.000.
Josephian, William. Piston and ring therefor. 3,656,768, 4-18-72, Cl. 277-167.
Josephsen, Roy C.; and Weir, Clifford L., to Allied Chemical Corporation. Method for molding articles. 3,694,529, 9-26-72, Cl. 264-48.000.
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Josey, Geoffrey Ernest. Internal combustion engines. 3,640,261, 2-8-72, Cl. 123-188.
Joshi, Kamalakant Krishnarao, to Imperial Chemical Industries Limited. Transition metal compounds. 3,644,447, 2-22-72, Cl. 260-429.
Joshi, Madhukar L.; Platt, Alan; and Wajda, Edward S., to International Business Machines Corporation. Method for making a semiconductor device having a shallow, flat front diffusion layer. 3,649,388, 3-14-72, Cl. 148-189.
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Jossy, Wilfred E., to Transwestern Express Company. Side spray inhibiting apparatus for wheeled vehicles. 3,632,137, 1-4-72, Cl. 280-154.5.
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Junker, Ralph Daniel. Reduced recoil caseless cartridge machine gun. 3,641,867, 2-15-72, Cl. 89-1.704.
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Kacalek, Josef; Bartos, Josef; and Stransky, Miroslav, to Elitex, Zavody textilniho strojirenstvi. Device for transforming a rotary motion into a linear reversing motion, particularly for textile machines. 3,661,019, 5-9-72, Cl. 74-58.
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Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, to CKD Praha, oborovy podnik. Mounting of stato blades in axial compressors. 3,647,312, 3-7-72, Cl. 415-149.
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Kadi, Frank J.; Longsworth, Ralph C.; and Meier, Richard N., to Air Products and Chemicals, Inc. Flexible cryogenic liquid transfer system and improved support means therefor. 3,706,208, 12-19-72, Cl. 62-55.000.
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Kadokura, Sadao; and Miura Kazuchika, to Teijin Limited. Motor control with pulse comparison means. 3,681,670, 8-1-72, Cl. 318-318.000.
Kadomsky, Dmitry Evgenievich; and Nazarov, Alexandr Sergeevich. Apparatus for damping oscillations in three-phase bridge converters. 3,668,507, 6-6-72, Cl. 321-11.
Kadono, Shinji, to Hitachi, Ltd. Semiconductor memory. 3,686,515, 8-22-72, Cl. 307-238.
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Kadono, Yoji; Ogasawara, Yukio; and Kamo, Keizo, to Toyota Jidosha Kogyo Kabushiki Kaisha. Method of fixing a bearing cup in a Hooke S type universal joint. 3,701,189, 10-31-72, Cl. 29-148.40a.
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Kadow, Hermann, to Siemens Aktiengesellschaft. Memory arrangement. 3,648,262, 3-7-72, Cl. 340-174.
Kadow, Hermann, to Siemens Aktiengesellschaft. Selective circuit for a data storer with optional access. 3,707,704, 12-26-72, Cl. 340-173.00r.
Kadowaki, Koju: *See—*
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Kadowaki, Takashi; Iwasaki, Takao; Mitsuta, Yutaka; and Shimada, Kenji, to Denki Kagaku Kogyo Kabushiki Kaisha and Nippon Alpin Rubber Co., Ltd. Method for recovering a solvent and an elastomeric polymer from an elastomeric polymer solution. 3,691,143, 9-1-72, Cl. 260-94.70r.
Kadowaki, Takashi; and Itoyama, Kenji, to Denki Kagaku Kogyo Kabushiki Kaisha. Chloroprene rubber composition. 3,703,568, 11-21-72, Cl. 260-890.000.
Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Film movement direction switching device for small movie projectors. 3,643,894, 2-22-72, Cl. 242-201.
Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Device for switching between film advance and film rewind in movie projectors. 3,643,896, 2-22-72, Cl. 242-205.
Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Movie projector adapted to use both a film cartridge and an open reel. 3,669,383, 6-13-72, Cl. 242-192.000.
Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Movie projector for use with a film cartridge or reel. 3,677,624, 7-18-72, Cl. 352-73.000.
Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Automatic film feed device for small movie projectors using a film cartridge. 3,684,210, 8-15-72, Cl. 242-192.
Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Automatic film rewind device for movie projectors of the small type. 3,707,326, 12-26-72, Cl. 352-124.000.
Kadowaki, Yoshio: *See—*
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Kadri, Fred Vassaf, to Bell Telephone Laboratories, Incorporated. DC to DC converter with voltge regulation through pulse width modulation by control of the distribution of flux variations in a dual core transformer. 3,660,749, 5-2-72, Cl. 200-2.
Kadron, Stanley F.; Eisenhauer, Gary L.; Pryor, David J.; and Chacon, Raul J., to Bendix Corporation, The. ADF with remote digital tuning. 3,704,423, 11-28-72, Cl. 325-458.000.
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Kafitz, Peter H., to Ryan Aeronautical Co., The. Increased power electronically scanning integrated antenna system. 3,697,995, 10-10-72, Cl. 343-100.0sa.
Kafka, Robert S., 30% each to Tweed, Paul B. and Lance, Andrew T. Dependable performance igniter. 3,635,649, 1-18-72, Cl. 431-269.
Kafka, Robert Stickney, 33 1/3% to Renfro, Julian C. High reliablity joint for manufacture of pipe. 3,656,514, 4-18-72, Cl. 138-166.
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Kagan, Fred; and Magerlein, Barney J., to Upjohn Company, The. 7-mercapto-7-deoxylincomycins and process for preparing the same. 3,689,474, 9-5-72, Cl. 260-210.00r.
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Kagari, Yoshiharu; Ogawa, Toshiya; and Hirokawa, Koichi, to Ricoh Co., Ltd. Printed copy sheet number read-out device. 3,689,742, 9-5-72, Cl. 235-61.11e.
Kagari, Yoshiharu; Hirokawa, Koichi; and Hasegawa, Toru, to Ricoh Co., Ltd. Etching solution application device for offset printing machines. 3,690,251, 9-12-72, Cl. 101-142.000.
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Kagiya, Tsutomu; Hagiwara, Miyuki; and Okamoto, Hidemasa, to Japan Atomic Energy Research Institute. Solution polymerization of ethylene by ionizing radiation in the presence of chlorofluorinated hydrocarbons. 3,663,391, 5-16-72, Cl. 204-159.220.
Kah, Carl L. C., Jr. Method and apparatus for full shut-off sequencing valve. 3,635,237, 1-18-72, Cl. 137-119.
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Kahl, Melchior: *See—*
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Kahle, Gerald R., to Phillips Petroleum Company. Hydroformylation process and catalyst. 3,652,676, 3-28-72, Cl. 260-604.
Kahle, Gerald R.; and Fodor, Lawrence M., to Phillips Petroleum Company. Polymerization process and catalyst. 3,658,779, 4-25-72, Cl. 260-93.7.
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Kahle, Wilhelm Manfred, to Canada, Her Majesty the Queen in the right of, as represented by the Secretary of State. Motor controlled magnetic tape playback machine. 3,693,061, 9-19-72, Cl. 318-7.000.
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Kahn, Alan R.; and Stroebel, Florence A., to Medtronic, Inc., mesne. Catheter apparatus. 3,659,588, 5-2-72, Cl. 128-2.

Kahn, David. Closeup stereoscopic slide viewer. 3,632,186, 1-4-72, Cl. 350-133.
Kahn, Edward J., to Togs, Inc. Two-part-snap-on fastening device. 3,691,597, 9-19-72, Cl. 24-108.000.
Kahn, Edward Joel, to Togs, Inc. Two-part snap-fastener. 3,643,296, 2-22-72, Cl. 24-108.
Kahn, Edward Joel, to Togs, Inc. Snap fastener. 3,644,965, 2-29-72, Cl. 24-90.
Kahn, Frederic Jay, to Bell Telephone Laboratories, Incorporated. Nematic liquid crystal device. 3,694,053, 9-26-72, Cl. 350-150.000.
Kahn, Garry: *See—*
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Kahn, Henry; and Hokama, Takeo, to Velsicol Chemical Corporation. Process for the production of alpha-methylstyrene polymer. 3,669,947, 6-13-72, Cl. 260-93.50s.
Kahn, Jay Dee C., to LTV Ling Altec, Inc. Speaker device for sound reproduction in liquid medium. 3,670,299, 6-13-72, Cl. 340-8.00r.
Kahn, Lawrence F.: *See—*
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Kahn, Leonard R., to Kahn Research Laboratories, Inc. Amplification system. 3,648,186, 3-7-72, Cl. 330-10.
Kahn, Leonard R., to Kahn Research Laboratories, Inc. Headset with circuit control. 3,683,130, 8-8-72, Cl. 179-156.000.
Kahn, Leonard R., to Kahn Research Laboratories, Inc. Single channel audio signal transmission system. 3,684,838, 8-15-72, Cl. 179-15.55r.
Kahn, Leonard R., to Kahn Research Laboratories, Inc. Communication system with selection means for determining the modulation mode of a received signal. 3,688,197, 8-29-72, Cl. 325-315.000.
Kahn, Leonard R.; and Gordon, Robert R., to Kahn Research Laboratories, Inc. Audio signal transmission system and method. 3,696,298, 10-3-72, Cl. 325-59.000.
Kahn, Paul: *See—*
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Kahn, Peter Burno; and North, Norman Frederick, to Plessey Company Limited, The. Combined auxiliary power and engine starter systems. 3,662,544, 5-16-72, Cl. 60-39.140.
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Kahn, Robert D., to Fedtro, Inc. Plastic construction for an item used in a heat environment, such as an ashtray. 3,654,045, 4-4-72, Cl. 161-7.
Kahn, Samuel, to Universal Oil Products Company. Manufacture of benzophenone. 3,642,906, 2-15-72, Cl. 260-591.
Kahng, Dawon: *See—*
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Kahng, Dawon; and Nicollian, Edward Haig, to Bell Telephone Laboratories, Incorporated. Monolithic semiconductor apparatus adapted for sequential charge transfer. 3,651,349, 3-21-72, Cl. 307-304.
Kahng, Dawon, to Bell Telephone Laboratories, Incorporated. Charge coupled devices. 3,700,932, 10-24-72, Cl. 307-304.000.
Kai, Hisao: *See—*
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Kai, Tsunetoshi; Hagihara, Takeaki; and Ishido, Teruhisa, to Asahi Kasei Kogyo Kabushiki Kaisha. Photopolymerizable diisocyanate modified unsaturated polyester containing acrylic monomers. 3,677,920, 7-18-72, Cl. 204-159.150.
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Kaneko, Akira; Ogino, Tadashi; and Hata, Yoshiyuki, to Kureha Kagaku Kogyo Kabushiki Kaisha. Polyvinyl chloride compositions. 3,635,856, 1-18-72, Cl. 260-17.4.
Kaneko, Haruo; and Katagiri, Yoshio, to Nippon Electric Company. Drift compensation system for a cascade-type encoder. 3,638,218, 1-25-72, Cl. 340-347.
Kaneko, Haruo; and Yano, Kaoru, to Nippon Electric Company, Limited. Nonlinear encoder. 3,676,600, 7-11-72, Cl. 179-15.55t.
Kaneko, Hidehiko; Yamamoto, Yuzuru; and Kon, Tatsuya, to Dainippon Pharmaceutical Co., Ltd. 17α-Acetoxy-7α-alkylthioprogestenes and production thereof. 3,681,408, 8-1-72, Cl. 260-397.4.
Kaneko, Hidehiko; Aritomi, Jiro; and Nakamura, Keiji, to Dainippon Pharmaceutical Co., Ltd. Aminoalkanol esters and their pharmaceutically acceptable acid-addition salt. 3,700,680, 10-24-72, Cl. 260-295.50r.
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Kaneko, Hisashi, to Nippon Electric Company, Limited. Data transmission system. 3,659,202, 4-25-72, Cl. 325-30.
Kaneko, Hisashi, to Bell Telephone Laboratories, Incorporated. Segment analog-to-digital or digital-to-analog converter. 3,678,504, 7-18-72, Cl. 340-347.0da.
Kaneko, Hisashi, to Nippon Electric Company, Limited. Multilevel code conversion system. 3,697,874, 10-10-72, Cl. 325-38.00a.
Kaneko, Katsumi, to Kabushiki Kaisha Koparu. Lens shutter for single-lens reflex camera. 3,687,046, 8-29-72, Cl. 95-63.000.
Kaneko, Katsuzo: *See—*
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Kaneko, Ryutano; and Kaneko, Yoshio. Automatic molding apparatus for producing ring-shaped doughnuts containing fillings. 3,653,336, 4-4-72, Cl. 425-133.
Kaneko, Seiya: *See—*
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Kaneko, Shunsuke: *See—*
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Kaneko, Tokuzo: *See—*
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Kaneyasu, Masao, to Dentsu Central Kabushiki Kaisha. Disinfectant for a telephone mouthpiece and a manufacturing method thereof. 3,643,040, 2-15-72, Cl. 179-185.
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Kangle, Purushottam Janardan; Ramanathan, Visvanathan; and Argay, Rudolf, to Ciba-Geigy AG. Process for dyeing and printing textile materials made from synthetic organic fibres. 3,676,051, 7-11-72, Cl. 8-65.000.
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Kannegiesser, Herbert, to Kannegiesser Maschinenfabrik Gesellschaft mit beschrankter Haftung. Sublimatory transfer dyeing in vented foil packet with release of trapped steam. 3,707,345, 12-26-72, Cl. 8-2.500.
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Kanngiesser, Karl-Werner; and Kluge, Dietrich, to Aktiengesellschaft Brown, Boveri & Cie. Circuit arrangement for altering current distribution in mesh-operated high voltage direct current transmission networks. 3,694,728, 9-26-72, Cl. 321-11.000.
Kanngiesser, Karl-Werner; and Lips, Hans Peter, to Aktiengesellschaft Brown, Boveri & Cie. Method of regulating high voltage direct current transmission system operating with several converter stations connected in a multipoint network. 3,707,669, 12-26-72 Cl. 321-11.000.
Kanning, Donald C., to Klingensmith, Ben C. Gas pressure driven vibratory cylinder construction. 3,680,442, 8-1-72, Cl. 91-234.000.
Kanno, Hideo: *See—*
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Kanno, Satoshi, to Victor Company of Japan, Limited. Rotation control circuit for transistor motor. 3,671,837, 6-20-72, Cl. 318-394.000.
Kanno, Tadaaki: *See—*
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Kant, Alvin W., to American Tractor Equipment. Offsetting cable plow. 3,657,831, 4-25-72, Cl. 37-193.
Kant, Michel; and Bonnefille, Robert, to Agence Nationale de Valorisation de la Recherche (ANVAR). Asynchronous machine having an open magnetic circuit. 3,663,844, 5-16-72, Cl. 310-13.000.
Kanter, Jerome J. Coating ferrous base metal articles. 3,700,505, 10-24-72, Cl. 148-6.350.
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Kantola, Robert A.; and West, Norman H., to General Electric Company. Fluidic sound reproduction system. 3,666,273, 5-30-72, Cl. 274-6.000.
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Kantor, Itzhak, to Plasson Maagan Michael Industries, Ltd. Multi-supported movable trough-controlled waterer. 3,685,495, 8-22-72, Cl. 119-81.
Kantor, Seymour Milton; and Kantor, Bertram Lincoln. Display base. 3,662,980, 5-16-72, Cl. 248-161.
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Kantorowicz, Gerard, to Thomson-CSF. Delay lines. 3,699,379, 10-17-72, Cl. 315-3.500.
Kantorski, Joseph W.; and Young, Charles Gilbert, to American Optical Corporation. Method of testing optical materials for microinhomogeneities. 3,639,066, 2-1-72, Cl. 356-237.
Kantorski, Joseph W.; La Marre, David A.; and Smith, Donald A., to American Optical Corporation. Laser structure. 3,670,263, 6-13-72, Cl. 331-94.500.
Kantorski, Joseph W., to American Optical Corporation. Method of making a lens balanced laser rod and rod produced thereby. 3,700,423, 10-24-72, Cl. 65-30.000.
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Kao, Chih-Yu; and Kurth, Carl F., to Bell Telephone Laboratories, Incorporated. Equalizer. 3,663,898, 5-16-72, Cl. 333-18.
Kao, Chung-Chin. Automatic egg roll machine. 3,633,517, 1-11-72, Cl. 107-1.
Kao, Henry C., to Inmont Corporation. Acrylic lacquer coating composition containing a controlled quantity of low molecular weight melamine-formaldehyde resin. 3,634,347, 1-11-72, Cl. 260-15.
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Kapeker, Martin. Coupler for tubular members. 3,667,785, 6-6-72, Cl. 285-231.
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Kapelowitz, Robert F. Syringe with multiple compartments. 3,680,558, 8-1-72, Cl. 128-218.00m.
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Kaplan, Herman L., to Cole National Corporation. Blade lock for scissors. 3,651,573, 3-28-72, Cl. 30-226.
Kaplan, Irving Leonard, to Krasny, Carl, & Associates, Inc. Bar unscrambler. 3,670,902, 6-20-72, Cl. 214-1.
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Karpol, Zvi Y., to Keystone; division of Berkey Photo. Solenoid-actuated mask for automatic exposure control for cameras. 3,665,826, 5-30-72, Cl. 95-10.0cd.
Karpukhina, Valentina Vasilievna: *See—*
Kostenko, Alla Elisbarovna; Karpukhina, Valentina Vasilievna; Stovpyaga, Valentina Petrovna; Freidlin, Gilia Naumovich; Adamov, Ary Artemovich; and Berezhnaya, Lidia Fedotovna, 3,660,528.
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Karr, Lawrence J.; and Fried, Norman, to TRW Inc. Coaxially adjusted optical mount. 3,700,313, 10-24-72, Cl. 350-288.000.
Karr, Melvin R.; and Hodge, Dean E., to Ralston Purina Company. Feed intake limiting composition for cattle. 3,669,676, 6-13-72, Cl. 99-7.000.
Karr, Michael A. Valve operator apparatus. 3,672,262, 6-27-72, Cl. 92-140.000.
Karr, Paul F. Door actuated dispenser having bellows as timing means. 3,680,739, 8-1-72, Cl. 222-70.000.
Karr, Robert J. Method and apparatus for applying or removing gloves. 3,695,493, 10-3-72, Cl. 223-111.000.
Karras, Ernest C. Answering time recorder for telephone apparatus. 3,636,259, 1-18-72, Cl. 179-8.
Karras, Ernest C.; and Cain, Lester R., to Cemtech Corporation. Dialed number printout system. 3,663,756, 5-16-72, Cl. 179-7.1.
Karrels, Alvin J. Balancer. 3,659,463, 5-2-72, Cl. 73-480.
Karrer, Fridrich Wilhelm Johann; and Pedretti, Alberto. Apparatus for liquid-treating fiber materials and drying said materials. 3,631,691, 1-4-72, Cl. 68-20.
Karrh, John H.; and Flowers, George H., Jr.; deceased (by Flowers, Mary Frances Buchanan; and Pasco, H. Merrill; executors). Thermosetting resin coatings. 3,682,676, 8-8-72, Cl. 117-16.000.
Karsnak, George D., to U.S. Engineering Company, Inc. Ram head and adjustable connector combination. 3,685,341, 8-22-72, Cl. 72-450.000.
Karste, Eberhard: *See—*
Glasow, Gunthard; Grosse, Klaus; Hykel, Knut; Schleifer, Werner; Karste, Eberhard; and Kliehe, Helmut, 3,696,766.
Karstedt, Bruce D.; and Razzano, John S., to General Electric Company. Fluorinated aliphatic acids as processing aids for silicone rubber compositions. 3,671,546, 6-20-72, Cl. 260-37.0sb.
Karstensen, Karl W.; and Kizer, Richard W., to Caterpillar Tractor Company. Combined turbine nozzle and bearing frame. 3,704,075, 11-28-72, Cl. 415-68.000.
Kart, Frederick H. Automatic pistol and sub-caliber conversion therefor. 3,657,959, 4-25-72, Cl. 89-128.
Kartasuk, Ray; and Gloridso, Ray, to Wilton Corporation. Quick engaging and disengaging nut mechanism. 3,669,440, 6-13-72, Cl. 269-181.000.
Kartasuk, Raymond H.; and Smierciak, Walter, to Wilton Corporation. Vise assembly. 3,675,916, 7-11-72, Cl. 269-69.000.
Kartchner, Earl M.; Van Horn, Gary R.; and Wallace, Richard A., to Sperry Rand Corporation. Two-way communication system employing two-clock frequency pseudo-noise signal modulation. 3,665,472, 5-23-72, Cl. 343-175.000.
Karten, Marvin J., to USV Pharmaceutical Corporation. Carbamoyl oximes. 3,636,111, 1-18-72, Cl. 260-566.
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Kartschmaroff, Peter; Moser, Paul; and Berger, Kurt. Process for the production of pyrolysates and their use as stabilizers. 3,660,444, 5-2-72, Cl. 260-439.
Kartschmaroff, Peter; and Moser, Paul, to Ciba-Geigy Corporation. Process for the production of nickel salts of monoesters of 3,5-ditert. butyl-4-hydroxybenzyl phosphonic acid. 3,696,135, 10-3-72, Cl. 260-439.00r.
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Kartzmark, Robert; and MacDonald John M., to Esso Research and Engineering Company. Denitrogenation by distillation in presence of alkali metals. 3,649,528, 3-14-72, Cl. 208-294.
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Karubian, Ralph. Separable connection means for reciprocating saw blades. 3,703,036, 11-21-72, Cl. 30-339.000.
Karubian, Ralph. Hand tool with magnetic brake. 3,703,654, 11-21-72, Cl. 310-77.000.
Karushiki Kaisha Fuji Kogyosho: *See—*
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Nesterovsky, Vsevolod Vladimirovich; Khmelnitsky, Julius Lazarevich; Karzhev, Vladimir Ivanovich; Silchenko, Ekaterina Ivanovna; Goncharova, Nina Vasilievna; Svirina, Valentina Petrovna; Maikova, Margarita Viktorovna; and Murashkina, Marfa Markovna, 3,649,96.
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Kasabian, Joseph A., to Raytheon Company. Disturbance sensitive switch. 3,649,787, 3-14-72, Cl. 200-61.45.
Kasagi, Masanori; and Gunjigake, Koreaki, to Denki Kagaku Kogyo Kabushiki Kaisha. Aqueous dispersion of a copolymer of ethylene and vinyl acetate and heat melting adhesive comprisig same. 3,692,723, 9-19-72, Cl. 260-29.60e.

Kasahara, Kanji: *See—*
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Kasahara, Yasuo, 50% to Kabushikikaisha Nakatani. Circuit breaker. 3,702,980, 11-14-72, Cl. 335-16.000.
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Kasai, Sakae, to Crystal Sewing Machine Ind., Co., Ltd. Tow sewing machine capable of switching between zigzag stitch forming and straight stitch forming operations. 3,633,527, 1-11-72, Cl. 112-159.
Kasai, Shozo; Shimizu, Daisaburo; and Katagiri, Shinjiro, to Hitachi, Ltd. Electron lens for electron microscope and the like. 3,643,191, 2-15-72, Cl. 335-212.
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Kasama, Ryoji; and Kuriyama, Sigeru, to Hitachi, Ltd. Thyristor chopper controlling circuit. 3,659,119, 4-25-72, Cl. 307-252.
Kasama, Ryoji; and Suda, Seiji, to Hitachi, Ltd. Fuel injection controlling system for internal combustion engine. 3,659,565, 5-2-72, Cl. 123-32.
Kasano, Hiroyuki; and Kawamura, Masao, to Hitachi, Ltd. Solid state electronic device utilizing difference in effective mass. 3,678,302, 7-18-72, Cl. 307-299.000.
Kasano, Hiroyuki; Kurata, Kazuhiro; Ogirima, Masahiko; Kawamura, Masao; and Kusumoto, Hazime, to Hitachi, Ltd. Solid state electronic device using quaternary compound semiconductor material consisting of gallium, indium, phosphor and arsenic. 3,694,759, 9-6-72, Cl. 330-4.900.
Kasano, Kimiaki; and Kaya, Ichiro, to Kansai Paint Company Limited. Method for painting inner surface of pipe. 3,657,000, 4-18-72, Cl. 117-97.
Kasano, Kimiaki; and Kaya, Ichiro, to Kansai Paint Company, Limited. Apparatus for painting the inner surface of pipes. 3,705,569, 12-12-72, Cl. 118-105.000.
Kasargod, Sadanand Vithal; and Abhyankar, Shreeniwas Shankar. Segmented stator. 3,644,767, 2-22-72, Cl. 310-254.
Kasatkin, Jury Ivanovich; Filimonov, Alexandr Vasilievich; Erlykov, Nikolai Sergeevich; Chikirda, Sergei Ivanovich; Strashinsky, Vadim Konstantinovich; and Zeldin, Vladimir Pinsokhovich, to Vesesojuznyi Projektno-Konstruktorskij Institut Technologii Elektrtechnichnickeskogo Proizodstva. Device for stitched-wiring of long-time memory means. 3,681,833, 8-8-72, Cl. 29-203.0mm.
Kasawaki, Keiki, to Kenji Watanabe. Bobbin case for sewing machines. 3,682,121, 8-8-72, Cl. 112-231.000.
Kasazima, Masao, to Alps Electric Co., Ltd. Single control device for plural variable resistors. 3,701,963, 10-31-72, Cl. 338-128.000.
Kasbohm, Joachim: *See—*
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Kasecky, Joseph J.; and Thompson, Charles W., to Allegheny Ludlum Industries, Inc. Automatic tensioning device for multiple line strip. 3,707,252, 12-26-72, Cl. 226-25.000.
Kaser, Alfred, to Aktiengesellschaft Brown, Boveri & Cie. Chip deformer and breaker for use with metal cutting tool. 3,673,653, 7-4-72, Cl. 29-96.000.
Kaser, Walter Edwin; Kaplan, Murray Arthur; and Granatek, Alphonse Peter, to Bristol-Myers Company. Stable aqueous suspensions of ampicillin. 3,634,586, 1-11-72, Cl. 424-80.
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Kashii, Kenjiro. Method for ionophoresis of a dilute electrolyte solution. 3,686,088, 8-22-72, Cl. 204-180.00r.
Kashiki, Asayuki, to Maruzen Oil Company Limited. Atomic absorption spectroscopic analytical method and apparatus. 3,705,770, 12-12-72, Cl. 356-36.000.
Kashima, Hiroshi; Tomizuka, Katsushige; and Uozumi, Yoshinobu, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing bulky yarn from multifilament yarn. 3,688,358, 9-5-72, Cl. 28-72.120.
Kashima, Takeshiro; and Onaya, Isamu, to Pacific Metals Co., Ltd. Flexible coupling. 3,662,568, 5-16-72, Cl. 64-13.000.
Kashio, Hidetora: *See—*
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Kashio, Toshio, to Casio Computer Kabushiki Kaisha. Method and apparatus for writing characters. 3,656,169, 4-11-72, Cl. 346-1.
Kashio, Toshio, to Casio Computer Kabushiki Kaisha. Ink accelerating unit for use in ink jet printer. 3,657,599, 4-18-72, Cl. 317-3.
Kashio, Toshio. Distortion compensation in ink jet recording. 3,688,034, 8-29-72, Cl. 178-30.000.
Kashio, Toshio, to Casio Computer Kabushiki Kaisha. System for generating tracing signals for displaying or recording characters. 3,691,551, 9-12-72, Cl. 340-324.000.
Kashio, Toshio, to Casio Computer Kabushiki Kaisha. Method and arrangement for generating tracing signals. 3,696,394, 10-3-72, Cl. 340-324.00a.
Kashiura, Kenji: *See—*
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Kashiwa, Norio; Tokuzumi, Tadaichi; and Fujimura, Hiroshi, to Mitsui Petrochemical Industries, Ltd. Process for the polymerization and/or copolymerization of olefins with the use of Ziegler-type catalysts supported on carrier. 3,642,746, 2-15-72, Cl. 260-8.2.
Kashiwa, Norio, to Mitsui Petrochemical Industries, Ltd. Process for polymerizing or copolymerizing olefins with carrier-supported catalyst. 3,647,772, 3-7-72, Cl. 260-88.2.
Kashiwa, Norio; Tohoru, Tomoshige; Kobayashi, Toshio; and Honma, Shiro, to Mitsui Petrochemical Industries, Ltd. Process for polymerization or copolymerization of ethylene. 3,705,886, 12-12-72, Cl. 260-85.300.
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Kashiwagi, Shinichi; Amano, Morio; and Nakasawa, Koichi, to Nishishiba Electric Co., Ltd. Lifting magnet for handling cargos. 3,653,706, 4-4-72, Cl. 294-65.5.
Kasik, Robert L.; and Luksas, Anthony J., to Beatrice Foods Co. Cheese flavors. 3,667,968, 6-6-72, Cl. 99-140.
Kasik, Robert L.; and Luksas, Anthony J., to Beatrice Foods Co. Production of cheese flavor. 3,674,508, 7-4-72, Cl. 99-140.
Kasischke, Kuno, to Gebr. Boehringer G.m.b.H. Method and system for production of program controls for machine tools. 3,632,989, 1-4-72, Cl. 235-61.9.
Kaske, Alan D.; and Sauter, Gerald F., to Sperry Rand Corporation. Block organized random access memory. 3,696,349, 10-3-72, Cl. 340-174.0nc.
Kasner, William. Calculator. 3,696,995, 10-10-72, Cl. 235-139.00r.
Kasner, William. Calculator. 3,706,875, 12-19-72, Cl. 235-74.000.
Kason Hardware Corporation: *See—*
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Kaspar, Hans H.; and Kirk, Paul F., to Barnes-Hind Pharmaceuticals. Resterilizing contact lens solution. 3,639,576, 2-1-72, Cl. 424-78.
Kaspar, Jan; and Bicik, Bladislav, to Vyzkumny Ustav Organickyck Syntez. Apparatus for comminuting and dispersing solid particles. 3,682,399, 8-8-72, Cl. 241-50.000.
Kaspareck, Anni: *See—*
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Kaspareck, Walter E.; deceased (by Kaspareck, Anni; administratrix) ; Swords, Ben B.; and Rosinski, Werner K., to United States of America, National Aeronautics and Space Administration. Adjustable force probe. 3,693,418, 9-26-72, Cl. 73-85.000.
Kasparek, Alois: *See—*
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Kaspaul, Alfred F.; and Kaspaul, Erika E., to Hughes Aircraft Company. Nucleation in recording and development. 3,660,087, 5-2-72, Cl. 96-1.8.
Kaspaul, Alfred F., to Hughes Aircraft Company. Image exposure and development method and apparatus. 3,664,249, 5-23-72, Cl. 95-13.
Kaspaul, Alfred F.; and Kaspual, Erika E., to Hughes Aircraft Company. High constrast image development method and article. 3,671,238, 6-20-72, Cl. 96-27.000.
Kaspaul, Alfred F.; and Kaspaul, Erika E., to Hughes Aircraft Company. Transparent conductive coating and process therefor. 3,698,946, 10-17-72, Cl. 117-211.000.
Kaspaul, Erika E.: *See—*
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Kasper, Frank S., to Amtron Inc. Method and apparatus for effecting the actuation and non-actuation of a responsive instrumentality. 3,634,741, 1-11-72, Cl. 328-72.
Kasper, Frank S., to Amtron, Inc. Method and apparatus for effecting the actuating and non-actuation of a responsive instrumentality. 3,682,215, 8-8-72, Cl. 146-222.000.
Kasper, George P., to Eastman Kodak Company. Azo dye-forming system including a boric acid ester. 3,679,421, 7-25-72, Cl. 96-91.00r.
Kasper Instruments Inc.: *See—*
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Kasper, Joseph G.: *See—*
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Kasper, Joseph G., to Tennant Company. Surface maintenance machine drive. 3,691,579, 9-19-72, Cl. 15-83.000.
Kasper, Joseph G., to Tennant Company. Scrubbing machine. 3,702,488, 11-14-72, Cl. 15-50.00c.
Kasper, Lothar: *See—*
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Kasper, Robert J., to Park-Ohio Industries, Inc. Method and apparatus for tuning a multi-turn induction heating coil. 3,649,804, 3-14-72, Cl. 219-10.75.
Kasper, Robert Jerry, to Park-Ohio Industries, Inc. Pivotally movable slab heating unit. 3,692,969, 9-19-72, Cl. 219-10.570.
Kasperik, Archibald S.; and Fuchs, Herbert A., to Signal Oil and Gas Company. Adding mercaptan sulfur to a selective hydrogenation process. 3,655,621, 4-11-72, Cl. 260-677.
Kasperkovitz, Wolfdietrich Georg, to U.S. Philips Corporation. Semiconductor device for producing or amplifying electric oscillations and circuit arrangement comprising such a device. 3,668,555, 6-6-72, Cl. 331-107.00r.
Kasperkovitz, Wolfdietrich Georg, to U.S. Philips Corporation. Shift register. 3,676,701, 7-11-72, Cl. 307-221.00r.
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Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,666,862.
Kaspers, Josef, to Schloemann Aktiengesellschaft. Die mounting means. 3,670,552, 6-20-72, Cl. 72-263.000.
Kaspual, Erika E.: *See—*
Kaspaul, Alfred F.; and Kaspual, Erika E., 3,671,238.
Kass, David. Spool and cover assembly. 3,698,546, 10-17-72, Cl. 206-52.00w.
Kassabgi, Georges; and Vinsani, Mario, to Honeywell Information Systems Italia S.p.A. System for automatically checking boards bearing integrated circuits. 3,657,527, 4-18-72, Cl. 235-153.
Kassabgi, Georges; and Compare, Giampiero, to Honeywell Information Systems Italia. Compatible modular circuit board connector. 3,676,746, 7-11-72, Cl. 317-101.0cc.
Kassabian, Richard. Apparatus and process for the selective fractionation of fatty materials into useful fractions thereof. 3,632,616, 1-4-72, Cl. 260-428.5.
Kassal, Thomas T.: *See—*
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Kassat, Harry; and Kissel, Ernst, to Gea Luftkuhlergesellschaft Happel GmbH., & Co., KG. Air-cooled condenser for head fractions in rectifying or distilling columns. 3,689,367, 9-5-72, Cl. 202-185.00b.
Kassat, Harry; Kissel, Ernst; and Kolenda, Herbert, to Gea Luftkuhlergesellschaft Happel GmbH & Co. KG. Condenser for low boiling fractions in rectifying or distilling columns. 3,703,592, 11-21-72, Cl. 202-185.00b.
Kassay, Andrew W.: *See—*
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Kassel, Aaron: *See—*
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Kassel, Aaron, to Technicon Instruments Corporation. Fluid supply control method and apparatus for periodic, precise fluid merger. 3,654,959, 4-11-72, Cl. 137-605.
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Katsigarakis, Stylianos G. Cabinet bed. 3,638,249, 2-1-72, Cl. 5-159.
Katsman, Berta Osipovna: *See*—
Maximovich, Boleslav Ivanovich; Dudko, Daniil Andreevich; Agafonov, Nikolai Georgievich; Maximov, Igor Petrovich; Andreev, Vadim Grigorievich; Lepilov, Nikolai Yakovlevich; Svinov, Alexei Kapitonovich; Slonimsky, Alexandr Borisovich; Volk, Boris Zakharovic; Gubin, Alexandr Ivanovich; and Katsman, Berta Osipovna, 3,677,330.
Katsoulis, Emanuel G.; and Pryor, William S., to Leesona Corporation. Electrode and method of producing same. 3,668,014, 6-6-72, Cl. 136-120.
Katsukawa Kogyo Kabushiki Kaisha: *See*—
Ito, Riyokichi, 3,670,900.
Katsumi, Mamoru: *See*—
Hayashi, Noburo; Katsumi, Mamoru; Ogata, Yuzuru; Arai, Sumio; Kurita, Yoshiaki; and Inamori, Yoshihiro, 3,639,468.
Katsumori, Teiji, to Tokico Ltd. Vehicle suspension mechanism. 3,647,239, 3-7-72, Cl. 280-124.
Katsumoto, Tomiyasu: *See*—
Abe, Isamu; Yashiro, Hideo; Sori, Naoyuki; Hatano, Sotaro; Katsumoto, Tomiyasu; and Suzuki, Tadao, 3,670,395.
Katsuragawa Denki Kabushiki Kaisha: *See*—
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Katsuragawa Kenki Kabushiki Kaisha: *See*—
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Katsuragi, Kaoru: *See*—
Iijima, Taizo; Yamazaki, Issei; Mori, Shunji; Genchi, Hiroshi; and Katsuragi, Sumio, 3,668,638.
Katsuragi, Mamoru, to Minolta Camera Kabushiki Kaisha. Daylight film developing tank. 3,703,859, 11-28-72, Cl. 95-90.500.
Katsuragi, Sumio: *See*—
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Katsurasawa, Takashi: *See*—
Kurosawa, Yoshinori; and Katsurasawa, Takashi, 3,635,446.
Katsuren, Roy I.; and Salisbury, Lloyd L., to United States of America, Army. Self-locking clutch. 3,692,161, 9-19-72, Cl. 192-8.00r.
Katsuro, Iio: *See*—
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Katsuta, Kihei: *See*—
Iwahashi, Koji; Ueda, Kenji; and Katsuta, Kihei, 3,684,672.
Katsuura, Kanji; and Igi, Keishiro, to Kurashiki Rayon Co., Ltd. Polyesters of improved dyeability and light fastness. 3,639,352, 2-1-72, Cl. 260-75.
Katsuyama, Harumi: *See*—
Ono, Hisatake; Watarai, Syu; and Katsuyama, Harumi, 3,647,428.
Ono, Hisatake; Osada, Chiaki; Watarai, Syu; and Katsuyama, Harumi, 3,697,266.
Katsuyama, Shigeo; Asami, Atsumi; Watanabe, Masahide; Sato, Tsutomu; Norimatsu, Toshiaki; and Nakajima, Eizo, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for shaping a bundle wet-spun continuous filaments. 3,672,819, 6-27-72, Cl. 8-137.000.
Katsuyama, Takehiro: *See*—
Kawai, Atsushi; Katsuyama, Takehiro; Suzuki, Migaku; and Takimoto, Hisao, 3,697,637.
Katsuyama, Yoshihisa: *See*—
Shioda, Hirohisa; Namiki, Isamu; Hori, Hisako; and Katsuyama, Yoshihisa, 3,639,483.
Katsuyama, Yoshihisa, to Nippon Kogaku K.K. Device for controlling angle of opening of shutter for movie camera. 3,644,025, 2-22-72, Cl. 352-217.
Katsuyama, Yoshihisa, to Nippon Kogaku K.K. Light receiving means in automatic focusing device. 3,688,673, 9-5-72, Cl. 95-44.00r.
Katter, Joseph L.: *See*—
Katter, Raymond G.; and Katter, Joseph L., 3,667,963.
Katter, Raymond G.; and Katter, Joseph L. Method of making pizza. 3,667,963, 6-6-72, Cl. 99-86.000.
Katto, Hisao; Kobayashi, Kazunari; Koga, Yasushi; and Koyama, Machiko, to Hitachi, Ltd. Method of manufacturing a metallic oxide film on a substrate. 3,668,095, 6-6-72, Cl. 204-164.000.
Katum Corporation: *See*—
Farmer, Robert B., 3,683,182.
Katuta, Tadao, to Tokyo Shibaura Electric Co., Ltd. Apparatus for embedding metal pins in a glass panel. 3,695,860, 10-3-72, Cl. 65-154.000.
Katva, Ilmari, to Broen Armatur I/S. Mixing valve having a swivel spout. 3,653,407, 4-4-72, Cl. 137-615.
Katva, Ilmari, to Continental Can Company, Inc. Mixing valve having a swivel spout. 3,656,652, 4-18-72, Cl. 137-615.
Katz, Carlos: *See*—
Eager, George S., Jr.; Silver, David A.; and Katz, Carlos, 3,673,307.
Katz, Edward; Ehrenthal, Irving; and Scallet, Barrett L., to Anheuser-Busch, Incorporated. Method of producing sweet syrup by resin isomerization of dextrose syrup. 3,684,574, 8-15-72, Cl. 127-46.00a.
Katz, Edward; Ehrenthal, Irving; and Scallet, Barrett L., to Anheuser-Busch, Incorporated. Process of making high D. E. fructose containing syrups. 3,690,948, 9-12-72, Cl. 127-46.00a.
Katz, Edward A. Artificial hand with violin bow adapter. 3,656,187, 4-18-72, Cl. 3-12.800.
Katz, Erich: *See*—
Gorman, William G.; and Katz, Erich, 3,692,898.
Katz, George M.; and Levy, Arthur L., to Scientific Specialties, Ltd. Colorimeter. 3,656,856, 4-18-72, Cl. 356-206.000.
Katz, Gilbert: *See*—
Sheth, Prabhakar Ranchhordas; and Katz, Gilbert, 3,632,778.
Katz, Harold W.: *See*—
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Katz, Helmut: *See*—
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Hofmann, Horst; Huebner, Erwin; and Katz, Helmut, 3,681,644.
Katz, Helmut, to Siemens Aktiengesellschaft. Cathode with dot-shaped emission. 3,681,641, 8-1-72, Cl. 313-336.000.
Katz, Herbert, to General Electric Company. Compensated feedback gas turbine augmentation control system. 3,656,301, 4-18-72, Cl. 60-236.
Katz, Hilbert John: *See*—
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Katz, Howard: *See*—
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Katz, Ira: *See*—
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Mussinan, Cynthia; Giacino, Christopher; and Katz, Ira, 3,677,772.
Katz, Ira; Wilson, Richard A.; and Giacino, Christopher, to International Flavors & Fragrances Inc. Novel flavoring compositions utilizing thiazo derivatives. 3,681,088, 8-1-72, Cl. 99-140.00r.
Katz, Ira; Evers, William John; and Giacino, Christopher, to International Flavors & Fragrances, Inc. Sulfur-containing flavoring compositions and processes therefor. 3,706,577, 12-19-72, Cl. 99-140.00r.
Katz, Isadore Edward: *See*—
Grane, Henry R.; and Katz, Isadore Edward, 3,665,048.
Katz, Jacob M. Tamper-proof closures for wall-mounted receptacles and the like. 3,633,787, 1-11-72, Cl. 220-43.
Katz, Joel, to United States of America, Air Force. Digital bandpass detector. 3,634,772, 1-11-72, Cl. 328-138.
Katz, Klaus: *See*—
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Katz, Leon: *See*—
Daniels, Wiley E.; Field, Nathan D.; and Katz, Leon, 3,657,392.
Mutaffis, Thomas D.; Katz, Leon; and Grosser, Frederick, 3,660,349.
Plue, Arnold F.; and Katz, Leon, 3,701,769.
Katz, Michel, to Aurium Research Corporation. Dental alloy. 3,667,936, 6-6-72, Cl. 75-134.
Katz, Norman. Cleaning pollutants from furnace and incinerator smoke and the like. 3,640,054, 2-8-72, Cl. 55-228.
Katz, Norman, to Goodman, H., & Sons, Inc. Dual barrettes. 3,678,946, 7-25-72, Cl. 132-48.00r.
Katz, Otto; and Kranich, Werner, to A. W. Faber-Castell. Lead dispenser having slide acutated cover. 3,648,891, 3-14-72, Cl. 221-248.
Katz, Philip Harvey: *See*—
Robinson, Denis; Whelan, Richard Howard; Katz, Philip Harvey; and Montuori, Anthony George, 3,682,663.
Katz, Robert. Process and apparatus for heat and/or mass transfer by direct contact. 3,687,425, 8-29-72, Cl. 261-114.00r.
Katz, Robert E.: *See*—
Katz, Robert E.; and Grainger, Frederick (said Grainger assor. to said), 3,665,817.

Katz, Robert E.; and Grainger, Frederick, said Grainger assor. to said Katz, Robert E. Forming multiple page pamphlet. 3,665,817, 5-30a72, Cl. 93-61.00r.
Katz, Seymour; and Greene, Joseph L., to General Motors Corporation. Process for uniformly electroforming intricate three-dimensional substrates. 3,694,325, 9-26-72, Cl. 204-11.000.
Katz, Sherwin D.; and Levon, Joseph M., to I-T-E Imperial Corporation. Proportional valve. 3,667,722, 6-6-72, Cl. 251-30.000.
Katz, Solomon; and Laglenne, Renee. Method of protecting eye makeup. 3,646,214, 2-29-72, Cl. 424-362.
Katz, Woolf: *See—*
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Katzenfurt, Karl Clos; and Keiner, Fritz, to Leitz, Ernst, G.m.b.H. Shutter release mechanism in photographic cameras. 3,701,307, 10-31-72, Cl. 95-10.0po.
Katzenmeyer, James H.; and Rossi, Harry J., to Continental Can Company, Inc. Carton. 3,658,235, 4-25-72, Cl. 229-33.
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Katzer, Ernst: *See—*
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Katzman, Allison; Nix, Donald F.; and Glass, Marvin I., to Glass, Marvin, & Associates. Paint design set. 3,648,652, 3-14-72, Cl. 118-323.
Katzman, Allison, to Glass, Marvin, & Associates. Board game apparatus. 3,649,024, 3-14-72, Cl. 273-135.
Katzman, Allison W.: *See—*
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Katzman, Frederick. Above ground swimming pool construction. 3,654,640, 4-11-72, Cl. 4-172.19.
Katzman, Lawrence; and Briggin, Edward. Vaporizer having a fill hole. 3,687,424, 8-29-72, Cl. 261-72.000.
Katzman, Lawrence; and Briggin, Edward. Vaporizer bowl construction. 3,705,415, 12-5-72, Cl. 219-271.000.
Kau, Donald L.: *See—*
Case, Forrest N.; Garrison, Arthur W.; Kau, Donald L.; and Smiley, David E., 3,640,808.
Kau, Franz J.: *See—*
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Kau, Harry L. F.: *See—*
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Kaucuk, narodni podnik: *See—*
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Kauczor, Hans-Werner: *See—*
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Kauder, Knut, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Flexible pipe system. 3,643,702, 2-22-72, Cl. 138-121.
Kauder, Otto S., to Argus Chemical Corporation. Stabilizer composition containing more than 20% tin and resin compositions containing the same. 3,632,538, 1-4-72, Cl. 260-23.
Kauder, Otto S., to Argus Chemical Corporation. Nickel organophosphites. 3,647,841, 3-7-72, Cl. 260-439.
Kauder, Otto S., to Argus Chemical Corporation. Partial fatty esters of glycerol and polyglycerol stabilized with organic phosphites. 3,654,178, 4-4-72, Cl. 252-356.
Kauder, Otto S.; Leistner, William E.; and Hecker, Arthur C., to Argus Chemical Corporation. Polycarbocyclic phenolic phosphites. 3,655,832, 4-11-72, Cl. 260-930.
Kauder, Otto S.; and Leistner, William E., to Argus Chemical Corporation. Hydroxy containing aromatic phosphites. 3,662,032, 5-9-72, Cl. 260-930.
Kauder, Richard M., to Gillette Company, The. Valve actuator for pressure container. 3,648,905, 3-14-72, Cl. 222-402.21.
Kauer, George C., Jr; and Brooks, Louis E., to Air Techniques Incorporated. Fractionation by adsorption. 3,659,399, 5-2-72, Cl. 55-33.
Kauer, Harald: *See—*
Peter, Kurt; Huhne, Gerd; Kauer, Harald; Overlach, Knud; and Schlicker, Volker, 3,638,212.
Kauer, James C.: *See—*
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Kauf, Walter. Wire stripper. 3,703,840, 11-28-72, Cl. 81-9.50r.
Kaufer, Helmut: *See—*
Hinz, Eberhard; Kaufer, Helmut; and Theobald, Reiner, 3,660,552.
Kauffman, Eugene C.; and Lockwood, Larry R., to Tektronix, Inc. Logarithmic amplifier. 3,646,456, 2-29-72, Cl. 328-145.
Kauffman, Harold L.; and Hisey, Richard M., to Armstrong Cork Company. Chip placement in a grid patterned sheet. 3,666,582, 5-30-72, Cl. 156-63.
Kauffman, Harry D.: *See—*
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Kauffman, Harry D.; and Davis, Malcolm F., to Cincinnati Milacron, Inc. EDM process a method and apparatus for controlling the flow rate of dielectric as a function of gap impedance. 3,699,303, 10-17-72, Cl. 219-69.00f.
Kauffman, John H.; and Donat, Ralph J., to National Engineering Company. Modular plow system for mixers and the like. 3,635,447, 1-18-72, Cl. 259-107.
Kauffman, Melvin R., to General Electric Company. Method and structure for cushioning the operation of a movable rack in a dishwasher. 3,679,282, 7-25-72, Cl. 312-311.000.
Kauffman, Ray B. Radio frequency burglar alarm system. 3,696,368, 10-3-72, Cl. 340-258.00a.
Kauffman, Samuel L., to Burroughs Corporation. Protective clip and electronic assembly using the same. 3,671,919, 6-20-72, Cl. 339-19.000.
Kaufman, Aaron M., to Reliable Machine Works, Inc. Shearing apparatus. 3,683,468, 8-15-72, Cl. 26-15.00r.
Kaufman, Arthur L.: *See—*
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Kaufman, Arthur L. Electrostatic copying apparatus employing development on side of the imaging sheet opposite the photoconductive coating. 3,689,144, 9-5-72, Cl. 355-3.000.
Kaufman, Charles W., to Olin Corporation. Dialkyltin salts of substituted pyridine-1-oxides as fungicides and bactericides. 3,705,943, 12-12-72, Cl. 424-245.000.
Kaufman, Curt E., to Ro-Search, Incorporated. Footwear. 3,670,350, 6-20-72, Cl. 12-142.0rs.
Kaufman, Harold, to Whittaker Corporation. Method for preparing nacreous pigments. 3,661,609, 5-9-72, Cl. 106-291.000.
Kaufman, Harold A.: *See—*
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Kilsheimer, John R.; and Kaufman, Harold A., 3,689,658.
Strong, Jerry G.; and Kaufman, Harold A., 3,678,070.
Kaufman, Harold A., to Mobil Oil Corporation. Organoglyoxylonitrile oximino phosphates. 3,639,537, 2-1-72, Cl. 260-940.
Kaufman, Harold A.; and Napier, Roger P., to Mobil Oil Corporation. Synergistic herbicide combination of cyclohexenone dimers with herbicides. 3,707,365, 12-26-72, Cl. 71-93.000.
Kaufman, Harold B., Jr.: *See—*
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Schiffmann, Robert F.; Stein, Ernest W.; and Kaufman, Harold B., Jr., 3,699,899.
Kaufman, Harold B., Jr.; Schiffmann, Robert F.; and Stein, Ernest W., to DCA Food Industries, Inc. Environmental control system for microwave proofer. 3,670,132, 6-13-72, Cl. 219-10.550.
Kaufman, Harold C.: *See—*
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Kaufman, Harry. Desoldering tool. 3,637,129, 1-25-72, Cl. 228-20.
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Kaufman, Herman S.: *See—*
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Kaufman, Howard N., to Westinghouse Electric Corporation. Oil scoop duct for rotatable troughed oil pumping drum. 3,635,311, 1-18-72, Cl. 184-11.
Kaufman, Howard N., to Westinghouse Electric Corporation. Oil scoop duct for rotatable troughed oil pumping drum. 3,635,312, 1-18-72, Cl. 184-11.
Kaufman, Jack: *See—*
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Kaufman, Jack B.; and Heid, Raymond G. Ski boot with pressure compensating brace. 3,678,603, 7-25-72, Cl. 36-2.5al.
Kaufman, Jack W. Cutter and like article. 3,672,054, 6-27-72, Cl. 30-294.000.
Kaufman, Jack W. Implements (III). 3,704,072, 11-28-72, Cl. 401-291.000.
Kaufman, Jerome: *See—*
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Kaufman, Jonas J. Hand truck for oil drums and the like. 3,674,164, 7-4-72, Cl. 214-377.000.
Kaufman, M. Gene: *See—*
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Kaufman, Martin H.; O'Drobinak, John D.; and Dake, James O., Jr., to United States of America, Navy. Hybrid propellant system. 3,640,070, 2-8-72, Cl. 60-220.
Kaufman, Martin H., to United States of America, Navy. Polymeric compositions. 3,671,609, 6-20-72, Cl. 260-879.000.
Kaufman, Melvin Murray, to RCA Corporation. Decoder circuit. 3,679,911, 7-25-72, Cl. 307-251.000.

Kaufman Mfg. Co.: *See—*
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Kaufman, Otto; Daeuble, Manfred; Witsch, Heinz-Guenter; Luebcke, Enno; and Bayew, Dimiter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Stable, highly concentrated dye solution of anthraquinone dyes in water miscible solvents. 3,671,176, 6-20-72, l. 8-39.000.
Kaufman, Paul R.: *See—*
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Kaufman, Paul Richard, to Lubrizol Corporation, The. Secondary oil recovery method using N-sulfohydrocarbon-substituted acrylamide polymers as viscosity increasing agents. 3,679,000, 7-25-72, Cl. 166-273.000.
Kaufman, Philip, to Instrument Systems Corporation. Adjustable support for bottles. 3,642,241, 2-15-72, Cl. 248-327.
Kaufman, Robert H.; and Richardson, Donald, to North American Rockwell Corporation. Method for coating a reinforced hose. 3,667,995, 6-6-72, Cl. 117-94.000.
Kaufman, Samuel; De Rocker, Donald E.; and Conrad, Herbert A., to Sier-Bath Gear Co., Inc. Sealing ring. 3,645,546, 2-29-72, Cl. 277-205.
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Kaufman, Theodore Phillip, to Control Technology, Inc. Ambient light variation detector. 3,704,374, 11-28-72, Cl. 250-206.000.
Kaufman, Vern F.; Klose, Alvin A.; and Pool, Morris F., to United States of America, Agriculture. Method of defeathering poultry. 3,694,856, 10-3-72, Cl. 17-47.000.
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Kaufman, Warren F., to Philco-Ford Corporation. Fluid flow control apparatus. 3,692,036, 9-19-72, Cl. 137-81.500.
Kaufman, Warren F., to Philco-Ford Corporation. Gas sampler. 3,699,814, 10-24-72, Cl. 73-421.500.
Kaufman, William M.; and Kling, Harry P., to Hittman Associates, Inc. Viscometer. 3,667,286, 6-6-72, Cl. 73-59.
Kaufmann, Albert R., to Whittaker Corporation. BE-SI alloy for structural parts. 3,652,266, 3-28-72, Cl. 75-134.
Kaufmann, Alfred W. Beverage fountain. 3,691,787, 9-19-72, Cl. 62-400.000.
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Kaufmann, Harold: *See—*
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Kaufmann, John, Jr. Exhaust conversion systems. 3,657,878, 4-25-72, Cl. 60-30.
Kaufmann, Michael, to Bolkow Gesellschaft mit beschrankter Haftung. Liquid rocket engine and method of operating same. 3,636,712, 1-25-72, Cl. 60-260.
Kaufmann, Morris; and Shultz, Bernard R., to International Business Machines Corporation. Method of making and using diced single crystal impurity source. 3,669,757, 6-13-72, Cl. 148-1.600.
Kaufmann, Otto: *See—*
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Kaugars, Girts, to Upjohn Company, The. Halogen substituted pyrinincaldehyde phenyl hydrazones. 3,699,111, 10-17-72, Cl. 260-296.00r.
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Kaumle, Fritz: *See—*
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Kaupas, Philip F.: *See—*
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Kaupin, William B., to Ludlow Corporation. Nonwoven cotton bale cover. 3,647,061, 3-7-72, Cl. 206-83.5.
Kaupp, Josef, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of polyester resins. 3,655,820, 4-11-72, Cl. 260-861.
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Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., 3,647,914.
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Keinanen, Henry J., to Continental Can Company, Inc. Method of forming a peelable seal between propylene polymer and a carboxylated polypropylene coated surface. 3,671,356, 6-20-72, Cl. 156-309.000.

Keinanen, Henry J.; and Pearson, John B., to Continental Can Company, Inc. Apparatus for electrohydraulic pressure arc control. 3,688,535, 9-5-72, Cl. 72-56.000.

Keiner, Fritz: *See*—
Katzenfurt, Karl Clos; and Keiner, Fritz, 3,701,307.

Keiner, Heinz, to Leitz, Ernst, G.m.b.H. Automatic lap dissolve for motion picture cameras. 3,701,594, 10-31-72, Cl. 352-91.000.

Keiner, Heinz; and Schafer, Wilhelm, to Leitz, Ernst, G.m.b.H. Movie camera with cam-driven gripper. 3,701,597, 10-31-72, Cl. 352-194.000.

Keir, John B.: *See*—
Hallman, Russell H.; Keir, John B.; and Patritto, Lawrence J., 3,650,425.

Keiser, David Howard, Jr. Grass shears. 3,641,668, 2-15-72, Cl. 30-260.

Keiser, David Howard, Jr. Grass shears. 3,641,669, 2-15-72, Cl. 30-260.

Keiser, David Howard, Jr. Scooter-like toy vehicle. 3,656,777, 4-18-72, Cl. 280-87.04.

Keiser, John E.; and Krieger, Earl, to Whirlpool Corporation. Method of producing porcelain enamel coatings. 3,647,509, 3-7-72, Cl. 117-45.

Keister, Frank Z.; and Smolker, Gary S., to United States of America, Navy. Self-destruct aluminum-tungstic oxide films. 3,666,967, 5-30-72, Cl. 307-202.

Keister, William. Locking disc puzzle. 3,637,215, 1-25-72, Cl. 273-155.

Keister, William. Pattern matching puzzle. 3,637,216, 1-25-72, Cl. 273-156.

Keitel, John C., to McGraw-Edison Company. Supervisory control system for selectively connecting recorders and transcribing stations. 3,706,858, 12-19-72, Cl. 179-100.1dr.

Keiter, Robert W.; and Taylor, Jack R., to General Electric Company. Combustor primary air control. 3,631,675, 1-4-72, Cl. 60-39.65.

Keith, Carl D.: *See*—
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Keith, Carl D.; Cornely, Kurt W.; and Lee, Nathan D., to Engelhard Minerals & Chemicals Corporation. Novel anthraquinone hydrogenation catalyst. 3,635,841, 1-18-72, Cl. 252-466.

Keith, Carl D.; Dalson, Milton H.; and Pfefferle, William C., to Engelhard Minerals & Chemicals Corporation. Disproportionation of toulene with a platinum-rhenium-solid oxide catalyst. 3,646,236, 2-29-72, Cl. 260-672.

Keith, Carl D.; Haley, Alfred J., Jr.; and Kero, Robert M., to Engelhard Minerals & Chemicals Corporation. Electrolytic anode. 3,654,121, 4-4-72, Cl. 204-290.

Keith, Carl D.; Haley, Alfred J., Jr.; and Kero, Robert M., to Engelhard Minerals & Chemicals Corporation. Electrolytic anode. 3,657,102, 4-18-72, Cl. 204-290.

Keith, Carl D.; and Pfefferle, William C. Serial reforming with platinium rhenium on acidic support and platinum on non acidic support. 3,658,691, 4-25-72, Cl. 208-65.

Keith, Carl D.; Masologites, George P.; and Mooi, John. Serial reforming with platinum on a non acidic support and platinum-rhenium on an acidic support. 3,660,271, 5-2-72, Cl. 208-65.

Keith, Carl D.; Haley, Alfred J., Jr.; and Kero, Robert M., to Engelhard Minerals & Chemicals Corporation. Method of making an electrolytic anode. 3,677,815, 7-18-72, Cl. 117-215.000.

Keith, Carl D.; Masologites, George P.; and Mooi, John. Platinum-rhenium reforming on supports of different cracking activity. 3,684,692, 8-15-72, Cl. 208-65.000.

Keith, Carl D.; Haley, Alfred J., Jr.; and Kero, Robert M., to Engelhard Minerals & Chemicals Corporation. Electrolytic anode. 3,687,724, 8-29-72, Cl. 117-230.000.

Keith, Carl D.; Mooney, John J.; and Vanmansart, Louis J., to Engelhard Minerals & Chemicals Corporation. Catalytic exhaust gas treatment apparatus. 3,692,497, 9-19-72, Cl. 23-288.00r.

Keith, Carl D.; and Pfefferle, William C. Serial reforming with platinum-rhenium and platinum-non rhenium catalysts. 3,705,094, 12-5-72, Cl. 208-65.000.

Keith, Charles H.: *See*—
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Keith, Charles N., to Graphic Pollution Control, Inc. Method and apparatus for drying liquid deposited on liquid receptive material. 3,636,637, 1-25-72, Cl. 34-1.

Keith, Chester L., to Commercial Solvents Corporation. Process for producing zearalenone. 3,661,712, 5-9-72, Cl. 195-36.

Keith, Constant E. Head attached safety light. 3,665,451, 5-23-72, Cl. 340-321.000.

Keith, Donald George, to Imperial Chemical Industries Limited. Foldable foam laminates. 3,649,398, 3-14-72, Cl. 156-79.

Keith, Donald George; Maack, Horst Egon Fred Ludwig; and Morris, Douglas Barrett, to Imperial Chemical Industries, Limited. Method of making spiral wound plastic foam tube. 3,695,959, 10-3-72, Cl. 156-79.000.

Keith, Donald George, to Imperial Chemical Industries Limited. Foam laminates. 3,706,172, 12-19-72, Cl. 52-521.000.

Keith, Frederick Walter, Jr., to Pennwalt Corporation. Liquid and sludge treatment. 3,677,405, 7-18-72, Cl. 210-71.000.

Keith, Jack G., to Duke, Inc. Simplified continuous rendering system. 3,673,227, 6-27-72, Cl. 260-412.600.

Keith, James N.: *See*—
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Keith, John V.; and Richter, Hans H., to Leesona Corporation. Strand heating apparatus. 3,641,756, 2-15-72, Cl. 57-34.

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Faust, Eberhard O.; and Keith, Klaus, 3,650,561.

Keith, Marvin W., Jr. Flexible link rotatable drive coupling. 3,695,058, 10-3-72, Cl. 64-23.000.

Keith, Norval A., to Olin Corporation. Process for preparing heat exchange component. 3,659,326, 5-2-72, Cl. 29-157.3.

Keith, Norval A., to Olin Corporation. Method and apparatus for inflating fluid passageways in metal strip. 3,667,266, 6-6-72, Cl. 72-55.000.

Keith, Norval A., to Olin Corporation. Process for slitting sheet metal. 3,706,246, 12-19-72, Cl. 83-7.000.

Keith, Robert H. Teat spraying apparatus for aiding in the prevention of mastitis in dairy cows. 3,648,696, 3-14-72, Cl. 128-248.

Keith, Wayland D.: *See*—
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Keith, Willis C.; and Johnson, Carl E., to Atlantic Richfield Company, mesne. Process for purification of terephthalic acid or its salt. 3,646,124, 2-29-72, Cl. 260-525.

Keithley, Harry E.; and Helrigel, Robert A., to Gulf & Western Industrial Products Company. Knockout bar assembly for presses. 3,699,882, 10-24-72, Cl. 100-218.000.

Keithley Instruments, Inc.: *See*—
Cath, Pieter G.; and Kapfish, Maurice S., 3,654,560.
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Keithley, Robert James, to Borden, Inc. Composition for adhering plastic film to a vapor penetrable non-metallic substrate. 3,668,158, 6-6-72, Cl. 260-17.00r.

Keizer, Volkert Govert; and Zwagemakers, Johannes Maria Antonius, to U.S. Philips Corporation, mesne. Phenoxypropylamines in compositions and methods for effecting B-sympatholytical activity. 3,632,780, 1-4-72, Cl. 424-330.

Kekas, Dennis H., to International Business Machines Corporation. Mechanical key actuator including a cantilever beam restoring force means. 3,668,356, 6-6-72, Cl. 200-172.00a.

Kekes-Szabo, Andras: *See*—
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Kekhler, Jury-Eduard Khansovich: *See*—
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Kekish, George T.; James, William G.; and Simons, Duane J., to Nalco Chemical Company. Preparation of polyacrolein-sodium bisulfite adduct. 3,640,933, 2-8-72, Cl. 260-29.6.

Kelbel, Donald. Hand drill alignment devices and methods of making and using the same. 3,664,754, 5-23-72, Cl. 408-16.

Kelbel, Donald W., to Borg-Warner Corporation. Transmission. 3,631,741, 1-4-72, Cl. 74-781.

Kelch, Heinz, to Kienzle Apparate GmbH. Stepping clutch device. 3,667,307, 6-6-72, Cl. 74-126.000.

Kelch, Heinz; and Schuh, Eduard, to Kienzle Apparate G.m.b.H. Taximeter arrangement with exchangeable control unit. 3,698,627, 10-17-72, Cl. 235-30.00r.

Kelch, Heinz, to Kienzle Apparate G.m.b.H. Gravity feed with axially movable attaching means. 3,699,557, 10-17-72, Cl. 340-174.10c.

Kelcher, Robert William, to Imperial Metal Industries (Kynoch) Limited. Niobium-base alloys. 3,639,180, 2-1-72, Cl. 148-12.7.

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Keldrauk, Walter. Fluid power unit. 3,679,334, 7-25-72, Cl. 418-142.000.
Kelem, Lester S.; and Reade, Stephen E., to United States of America, Army. Frequency detector. 3,686,565, 8-22-72, Cl. 324-79.00d.
Kelem, Lester S.; and Reade, Stephen E., to United States of America, Army. Time oscillator calibrator circuit. 3,706,049, 12-12-72, Cl. 331-44.000.
Kelemen, Arpad; and Crivii, Mircea, to Institutul Politehnic Cluj. Speed regulation system for three-phase induction motor. 3,665,498, 5-23-72, Cl. 318-227.
Kelemen, Denis G., to Du Pont de Nemours, E. I., and Company. Metalizing composition including degassed platinum powders. 3,674,515, 7-4-72, Cl. 106-1.000.
Kelemen, Gyorgy: *See—*
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Kell, Robert Christopher; Rendle, David Forbes; and Riches, Eric Edward, to General Electric Company Limited; formerly General Electric and English Companies Limited. Microwave devices. 3,696,314, 10-3-72, Cl. 333-73.00w.
Kellar, Arnold Arbuthnot, to Union Carbide Corporation. Electrode joint cement. 3,657,592, 4-18-72, Cl. 313-357.
Kellar, James S., to Universal Oil Products Company. Conversion of ethylbenzene to styrene. 3,702,346, 11-7-72, Cl. 260-669.00r.
Kellar, Richard L.: *See—*
Paelian, Owen; Rister, Donald R.; and Kellar, Richard L., 3,706,349.
Kellard, Juliet. Needle feed mechanism for sewing machines. 3,682,120, 8-8-72, Cl. 112-218.00r.
Kelleher, John J., Jr., to Raytheon Company. Pulse generator with storage means to maintain output transition in saturation after removal of trigger pulse. 3,639,784, 2-1-72, Cl. 307-260.
Kelleher, Kenneth S.: *See—*
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Keller, Anthony T., to Robertshaw Controls Company. Method and apparatus for welding bellows constructions and the like. 3,666,161, 5-30-72, Cl. 228-12.
Keller, Arthur E.; and Earles, Claude W. Vehicle speed regulation, control means, and warning system. 3,686,628, 8-22-72, Cl. 340-53.000.
Keller, Arthur H.: *See—*
Scarnato, Thomas J.; Adams, James R.; Keller, Arthur H.; and Peacock, Peter J., 3,637,237.
Keller, Arthur H., to International Harvester Company. Rake tooth mounting. 3,664,107, 5-23-72, Cl. 56-400.000.
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Keller, Carol K.; Royka, Stephen F.; and Snelling, Christopher, to Xerox Corporation. Photoelectrophoretic imaging process wherein the imaging electrical field is applied subsequent to imagewise exposure. 3,647,659, 3-7-72, Cl. 204-181.
Keller, Charles H., to Pek, Inc., mesne. Method and apparatus for contact printing. 3,694,081, 9-26-72, Cl. 355-91.000.
Keller, Donald K.: *See—*
Barello, Joseph G.; Keller, Donald K.; and Rish, Anthony S., 3,632,168.
Keller, Donald L.: *See—*
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Keller, Emil C.; and Spokes, Raymond E., to Abex Corporation. Friction elements. 3,673,276, 6-27-72, Cl. 260-38.000.
Keller, Ernest, to Jutzu, Louis. Apparatus for barbecuing food. 3,646,878, 3-7-72, Cl. 99-339.
Keller, Ernst: *See—*
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Keller, George C.: *See—*
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Keller, Gunter; Knauft, Gunter; Skuin, Petar; and Vogt, Edwin, to International Business Machines Corporation. Arithmetic and logical unit with error checking. 3,649,817, 3-14-72, Cl. 235-153.
Keller, Hans: *See—*
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Keller, Hans, to Hell, Rudolf, Dr.-Ing. Method of reproducing polychromatic picture originals. 3,651,249, 3-21-72, Cl. 178-5.4.
Keller, Hans, to ITT Industries, Inc. Monolithic integrable flip flop circuit. 3,678,300, 7-18-72, Cl. 307-288.000.
Keller, Hans, to ITT Industries, Inc. Method of amplitude control of electromechanical oscillators. 3,701,052, 10-24-72, Cl. 331-116.00m.
Keller, Hans; and Sauer, Wolfgang, to ITT Industries, Inc. Astable multivibrator containing two complimentary transistors. 3,705,362, 12-5-72, Cl. 331-111.000.
Keller, Harold A.; and Young, Patrick J., to Potlatch Forests, Inc. Method for automatically laying up plywood panels. 3,666,592, 5-30-72, Cl. 156-285.000.
Keller, Harold A.; and Young, Patrick J., to Potlatch Forests, Inc. Apparatus for automatically laying up plywood panels. 3,681,174, 8-1-72, Cl. 156-559.000.
Keller, Heinz; and Grossmann, Hans, to Durand & Huguenin A.G. Water-soluble cationic naphthoquinone-imine dyestuffs containing a quaternary ammonium group. 3,649,654, 3-14-72, Cl. 260-396.
Keller, Helmut; Rottmann, Franz; Zickler, Helmuth; and Klauke, Dieter, to Fichtel & Sachs A.G. Rotor for a rotary internal combustion engine. 3,652,190, 3-28-72, Cl. 418-54.
Keller, Horst; and Hahn, Gunter, to Messer Griesheim G.m.b.H. Welding control. 3,639,723, 2-1-72, Cl. 219-131.
Keller, James P.: *See—*
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Keller, James R., to Baldwin Tool, Inc. Shelf bracket structure. 3,672,624, 6-27-72, Cl. 248-243.000.
Keller, Jean-Paul; and Graf, Stefano A., to RCA Corporation. AC line operation of monolithic circuit. 3,649,887, 3-14-72, Cl. 317-235.
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Keller, Joseph H., Jr.; and Sterner, Russell L., to Grove Manufacturing Company. Mounting assembly for installation of hydraulic jacks on outrigger. 3,677,417, 7-18-72, Cl. 212-145.000.
Keller, Joseph H., Jr.; and Sterner, Russel L., to Kidde, Walter, & Company, Inc. Hydraulic outrigger jack with screw lock. 3,702,181, 11-7-72, Cl. 254-86.00h.
Keller, Joseph Richard: *See—*
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Keller, Joseph Richard; and Pritulsky, James, to AMP Incorporated. Multiple light transmission from a single light source. 3,638,008, 1-25-72, Cl. 240-1.
Keller, Joseph Richard; and Pritulsky, James, to AMP Domestic Inc. Terminal member for light transmitting means. 3,705,756, 12-12-72, Cl. 350-96.00b.
Keller, Juergen H. H.; and Sprague, Robert Hicks, to Itek Corporation. Dye-sensitized photosensitive materials having improved photographic speed. 3,666,464, 5-30-72, Cl. 96-48.000.
Keller, Karlheinz: *See—*
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Keller, Michael I.; and Gardner, Dayne G., said Gardner assor. to said Keller, Michael I. Automatic electronic paging system. 3,641,276, 2-8-72, Cl. 179-18.
Keller, Miner S., II. Cryogenic fuse. 3,684,923, 8-15-72, Cl. 317-13.00d.
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Keller, Siegfried, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Anti-slip device for compressed air brakes, particularly for rail vehicles. 3,655,246, 4-11-72, Cl. 303-21.
Keller, Thomas C.; and Heggy, Robert F., to Timken Company, The. Bearing housing. 3,672,735, 6-27-72, Cl. 308-180.000.
Keller, Thomas Charles, to Timken Company, The. Unitized seal assembly. 3,685,841, 8-22-72, Cl. 227-37.000.
Keller, Urs Martin: *See—*
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Keller, Werner, to Siemens Aktiengesellschaft. Contact-free potentiometer. 3,676,819, 7-11-72, Cl. 338-32.00r.
Keller, Wilhelm; Kallenowski, Peter; and Schmidt, Peter, said Keller, Wilhelm assor. to said Kallenowski, Peter. Device for producing hollow articles from thermoplastic synthetic material. 3,669,603, 6-13-72, Cl. 425-326.
Keller, William A., to Keller Manufacturing Co., Inc. Method of making rake tine support. 3,673,893, 7-4-72, Cl. 76-111.000.
Keller, William Fredrick; and Domyan, Frank Francis, to International Telephone and Telegraph Corporation. Adjustable dash pot and actuating means therefor. 3,656,592, 4-18-72, Cl. 188-270.
Keller, William Fredrick; and Domyan, Frank Francis, to International Telephone and Telegraph Corporation. Hydraulic control system. 3,675,538, 7-11-72, Cl. 91-1.000.
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Keller, Wolfgang, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for crucible-free zone melting of crystalline materials. 3,649,210, 3-14-72, Cl. 23-273.
Keller, Wolfgang; and Berger, Gunther, to Siemens Aktiengesellschaft. Method of crucible-free zone melting crystalline rods, especially of semiconductor material. 3,658,598, 4-25-72, Cl. 148-1.6.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Apparatus for crucible-free zone melting of crystalline rods. 3,660,044, 5-2-72, Cl. 23-273.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Method for crucible-free floating zone melting a crystalline rod, especialy of semicrystalline material. 3,660,062, 5-2-72, Cl. 65-32.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Device for crucible-free, floating zone melting a crystalline rod. 3,671,703, 6-20-72, Cl. 219-10.750.
Keller, Wolfgang; and Reuschel, Konrad, to Siemens Aktiengesellschaft. Method for crucible-free zone melting using a displaced heater. 3,685,973, 8-22-72, Cl. 23-301.0sp.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Device for crucible-free, floating-zonemelting a crystalline member. 3,688,006, 8-29-72, Cl. 13-1.000.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Method for floating zone melting. 3,705,789, 12-12-72, Cl. 23-301.0sp.
Keller-Volper, Ernest. Insertable cylinder for a door lock. 3,698,216, 10-17-72, Cl. 70-380.000.
Kellerman, David. Wound resistor arrangement. 3,648,218, 3-7-72, Cl. 338-160.
Kellert, Paul H. Modular building construction and method. 3,676,973, 7-18-72, Cl. 52-262.000.
Kellett, Eric, to C.A.V. Limited. Boiler systems. 3,633,521, 1-11-72, Cl. 110-104.
Kellett, Eric, to C.A.V. Limited. Rotor assemblies. 3,666,302, 5-30-72, Cl. 287-53.00r.
Kelley, Archie P., to Talley Industries, Inc. Boost starter system. 3,633,360, 1-11-72, Cl. 60-39.14.
Kelley, Arnold E.; and Wood, Frederick C., to Union Oil Company of California. Dual-catalyst hydrofining process. 3,644,197, 2-22-72, Cl. 208-89.
Kelley, Bernard B., 1/2 to Vergeer, Joseph and 1/2 to Paramatic, Corporation. Cold wax process for forming candles. 3,689,616, 9-5-72, Cl. 264-68.000.
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Kelley, Donald G., to Kelley, C. K., & Sons, Inc. End-opening carrier for pneumatic tube system. 3,642,232, 2-15-72, Cl. 243-35.
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Kelley, Fred W., Jr., to General Electric Company. Means for damping voltage oscillations in solid-state switching circuits. 3,675,110, 7-4-72, Cl. 321-14.000.
Kelley, Fred W., Jr.; and Lezan, Georges R. E., to General Electric Company. Gating control for a static switching arrangement with improved conduction angle balancing means. 3,693,069, 9-19-72, Cl. 323-24.000.
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Kelley, Kork. Method and apparatus for effecting gas control in oil wells. 3,643,740, 2-22-72, Cl. 166-265.
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Kelley, Raymond E. Adjustable trunk lid holder. 3,674,299, 7-4-72, Cl. 292-262.000.
Kelley, Raymond F.; and Swanke, Roy L., to Dynamics Corporation of America. Battery powered liquidizer. 3,668,491, 6-6-72, Cl. 318-305.000.
Kelley, Robert E., Jr. Football blocking trainer. 3,649,016, 3-14-72, Cl. 273-55.
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Kelly, Brian. Table construction. 3,705,556, 12-12-72, Cl. 108-144.000.
Kelly, Clifford J.; and Hukee, Bernard J., Jr., to Kalium Chemicals Limited. Method of storing particulate matter. 3,703,241, 11-21-72, Cl. 214-152.000.
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Kelly, Cornelius James Noel, to Ensign-Bickford Company, The. Explosive particles coated with a water-soluble ionic dye. 3,682,725, 8-8-72, Cl. 149-9.000.
Kelly, David John, to Scott Paper Company. Non-burning, intumescent flexible polyurethane foam. 3,681,273, 8-1-72, Cl. 260-2.5aj.
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Kelly, Joe T.; deceased (by Kelly, LaVerne S.; executrix); and Hummel, Jack L., to Marathon Oil Company. Use of high water content oil-external micellar solutions for extinguishing fires. 3,637,022, 1-25-72, Cl. 169-1.
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Kelly, Joe T.; deceased (Kelly, Laverne S.; executrix). Hydrocarbon sweetening with H_2O_2-containing micellar dispersions. 3,647,683, 3-7-72, Cl. 208-196.
Kelly, Joe T.; deceased (by Kelly, LaVerne S.; executrix); and Poettmann, Fred H., to Marathon Oil Company. In situ recovery of oil from tar sands using oil-external micellar dispersions. 3,648,771, 3-14-72, Cl. 166-272.
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Kelly, John C.; and Moore, Christopher J., to Rolls-Royce Limited. Sandwich structure. 3,670,843, 6-20-72, Cl. 181-33.00g.
Kelly, John C. Fan construction. 3,698,835, 10-17-72, Cl. 416-132.000.
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Kelly, William J.; and Reynolds, Warren A., to Cogar Corporation. Tape channel switching circuit. 3,681,699, 8-1-72, Cl. 328-143.000.
Kelly, William J., to Cogar Corporation. Automatic control of position and with of a tracking window in a data recovery system. 3,684,967, 8-15-72, Cl. 328-63.000.
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Kelmar, John J. Non-polluting by-product coal carbonization plant. 3,661,719, 5-9-72, Cl. 201-17.000.
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Kemper, Kate. Dough handling and shaping apparatus. 3,649,149, 3-14-72, Cl. 425-241.
Kemper, Wayne G. Decorative plastic wall tile. 3,703,431, 11-21-72, Cl. 161-6.000.
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Kemppinen, Auvo I.; and Strum, Bobbie W., to Reynolds Metals Company. Extrusion method and apparatus. 3,670,542, 6-20-72, Cl. 72-8.000.
Kempson, George C.; and Gilbert, Arthur N., to Monsanto Company. Convertible athletic field. 3,682,476, 8-8-72, Cl. 273-25.000.
Kempthorne, Richard Lewis, to Sprayon Research Corporation. Method for spraying a high density insulating mat. 3,676,170, 7-11-72, Cl. 117-16.000.
Kempton, Marvin L.: *See—*
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Kempton, Marvin L., to United States of America, Navy, mesne. Rod warhead. 3,696,751, 10-10-72, Cl. 102-67.000.
Kemsey-Bourne, Kenneth, to English Calico Limited. Production of tubular articles. 3,671,348, 6-20-72, Cl. 156-187.000.
Kemter, Heinz: *See—*
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Kenaga, Duane L., to Dow Chemical Company, The. Method for preparing laminar wood structures. 3,649,442, 3-14-72, Cl. 161-184.
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Kendall, Don Leslie, to Texas Instruments, Incorporated. Computer controlled device testing and subsequent arbitrary adjustment of device characteristics. 3,674,995, 7-4-72, Cl. 235-151.100.
Kendall, Earl W., to Rohr Corporation. Method and electrolytes for anodizing titanium and its alloys. 3,663,379, 5-16-72, Cl. 204-56.
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Kendall, George H., Sr., to Kendall-Russell, Inc. Automatic manufacture of clothing. 3,650,875, 3-21-72, Cl. 156-559.
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Kendall, Giles A.; and Bhutani, Harish K., to Menasco Manufacturing Company. Energy absorbing barrier post assembly. 3,693,940, 9-26-72, Cl. 256-1.000.
Kendall, Giles Arthur; and Minick, Robert, to Menasco Manufacturing Company. Tactical cargo hook. 3,677,507, 7-18-72, Cl. 244-137.000.
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Kendall, John George Leonard; and Ladkin, Derek, to Bitumen Industries Limited. Connecting apparatus. 3,707,421, 12-26-72, Cl. 156-380.000.
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Kendall, Lytton A., Jr., to Ohio State University, The. Wire drawing apparatus using vibratory-mechanical energy and curved transmission line. 3,701,271, 10-31-72, Cl. 72-56.000.
Kendall, Ray E. Vertically adjustable tow bar assembly. 3,692,330, 9-19-72, Cl. 280-402.000.
Kendall, Richard G. Clamp board for multiple entry accounting system. 3,645,561, 2-29-72, Cl. 282-29.
Kendall, Trevor William, to Dictaphone Corporation, mesne. Cassette hub leadering head. 3,668,759, 6-13-72, Cl. 29-200.00b.
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Kenmochi, Hirohito; Hotta, Seiji; and Akamatsu, Takashi, to Sumitomo Chemical Company, Ltd. Light-fast and wash-fast reactive phthalocyanine dyes. 3,663,537, 5-16-72, Cl. 260-239.600.
Kenmoku, Yoshihiro: *See*—
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Kennedy, Alvin B., Jr., to Catalyst Services, Inc. Handling apparatus for particulate dry product. 3,662,886, 5-16-72, Cl. 209-250.000.
Kennedy, Bert. Boxing glove. 3,663,960, 5-23-72, Cl. 2-18.000.
Kennedy, Bobby W., to United States of America, National Aeronautics and Space Administration. Polyimide resin-fiberglass cloth laminates for printed circuit boards. 3,700,538, 10-24-72, Cl. 161-93.000.
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Kennedy, David K., to Allied Chemical Corporation. Recovery of dilute caustic soda solutions from spent liquors containing hemicellulose. 3,635,670, 1-18-72, Cl. 23-185.
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Kennedy, Francis Alan. Baby's crib. 3,638,247, 2-1-72, Cl. 5-11.
Kennedy, Francis V. Process and apparatus for facilitating the landing of a vehicle on a landing surface. 3,693,143, 9-19-72, Cl. 340-27.0na.
Kennedy, Frank; and Roberts, Thomas C., to United States Steel Corporation. Roller conveyor. 3,672,486, 6-27-72, Cl. 198-127.000.
Kennedy, George C., to Teledyne, Inc. Method for manufacturing diamonds in a hydrogen free environment. 3,676,069, 7-11-72, Cl. 23-209.100.
Kennedy, George C., to Teledyne, Inc. Apparatus for manufacturing diamonds. 3,704,969, 12-5-72, Cl. 425-77.000.
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Kennedy, James; Long, Alan Gibson; and Underwood, William G. E., to Glaxo Laboratories Limited. Cephalosporin compounds. 3,665,003, 5-23-72, Cl. 260-243.00c.
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Kennedy, James E.; and Koboldt, Melvin A., to Container Corporation of America. Easy open container with pressure release and safety feature. 3,690,506, 9-12-72, Cl. 220-54.000.
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Kennedy, Kenneth F. Marine sewage collection and discharge systems. 3,703,960, 11-28-72, Cl. 210-121.000.
Kennedy, Leo J., to Owens-Illinois, Inc. Method and apparatus for inductive heating. 3,694,609, 9-26-72, Cl. 219-10.790.
Kennedy, Matthew Campbell, to English Electric Valve Company Limited. Cooling arrangements for valves. 3,644,769, 2-22-72, Cl. 313-46.
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Kennedy, Paul G.; Zeigler, Rodney N.; and Provine, Daniel J., to Westinghouse Electric Corporation. Synchronization method and apparatus for disc recorders. 3,705,262, 12-5-72, Cl. 178-6.6dd.
Kennedy, Peter J., to Ford Motor Company. Light reflection preventive device. 3,679,887, 7-25-72, Cl. 240-8.160.
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Kennedy, Ralph C.; and Torning, Ralph R., to Colt Industries Operating Corporation, mesne. Cylinder locking mechanism. 3,696,543, 10-10-72, Cl. 42-67.000.
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Kent, Roger E., to National Dust Collector Corporation. Gas scrubber. 3,680,282, 8-1-72, Cl. 55-233.000.
Kent, Roger E., to National Dust Collector Corporation. Gas scrubber having tiltable grids and method of using. 3,683,593, 8-15-72, Cl. 65-91.000.
Kent, Ronald E.; and Rothenberger, Alvin C., to McDonnell Douglas Corporation. Bulge-forming apparatus. 3,670,545, 6-20-72, Cl. 72-58.000.
Kent, Sherman. Puzzle with pieces in the form of subdivided rhombuses. 3,637,217, 1-25-72, Cl. 273-157.
Kent, Stephen D., to Kent, R. O., Corporation. Machine for clipping and bending the twigs and limb of artificial tree branches. 3,693,233, 9-26-72, Cl. 29-208.00d.
Kent, William C., to Western Electric Company, Incorporated. Apparatus for forming wire springs and welding contacts to the springs. 3,703,029, 11-21-72, Cl. 29-208.00d.
Kent-Moore Corporation: *See—*
Deming, Roy, 3,698,244.
Kenton, Joseph R.: *See—*
Banks, Robert L.; and Kenton, Joseph R., 3,660,506.
Kenton, Joseph R.; and Mahan, John E., to Phillips Petroleum Company. Olefin conversion with an heterogeneous olefin disproportionation catalyst combined with rhodium oxide. 3,658,930, 4-25-72, Cl. 260-683.

Kentor, William E. Process for preserving meats. 3,664,850, 5-23-72, Cl. 99i157.
Kentucky Electronics Inc.: *See—*
Blumenberg, Horst H.; and Francillon, Francis W., 3,696,491.
Merchant, Chester O., 3,650,002.
Kentucky Fried Chicken Corporation, mesne: *See—*
Pelster, Arthur F.; and Modglin, Donald D., 3,677,174.
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Kuenenman, Don; and Kenville, Cyril P., 3,688,995.
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Kenwell, Edward Albert. Book support for the physically infirm. 3,677,510, 7-18-72, Cl. 248-441.000.
Kenwood Manufacturing (Working) Limited: *See—*
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Kenworthy, Derek: *See—*
Fawdrey, Cecil Arthur; Simms, John Robert; Kenworthy, Derek; Roxburgh, Albert; and Hobbs, David, 3,683,141.
Kenworthy, Earl L.; and Hibbs, Russell R., to International Telephone and Telegraph Corporation. Apparatus and method of compensating a long highly dispersive traveling wave transmission line. 3,643,261, 2-15-72, Cl. 343-771.
Kenyon, Derek: *See—*
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Kenyon, Fred V., to Robertshaw Controls Company. Thermocouple. 3,650,843, 3-21-72, Cl. 136-217.
Kenyon, Kenneth H.: *See—*
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Kenyon, Richard L.: *See—*
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Kenyon, Roger B.: *See—*
Czerkas, Alfred E.; and Kenyon, Roger B., 3,663,683.
Kenyon, William, & Sons Limited: *See—*
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Kenzie, Nozaki, to Shell Oil Company. Process for preparing interpolymers of carbon monoxide in the presence of aryl phosphine-palladium complex. 3,694,412, 9-26-72, Cl. 260-63.0cq.
Keogh, James R., Jr., to FMC Corporation. Cleaning oil laden metal waste to recover the metal and reclaim the oil. 3,639,172, 2-1-72, Cl. 134-25.
Keogh, Michael J.; and Ingberman, Arthur K., to Union Carbide Corporation. Process for preparing a mixture of aromatic sulfones and aromatic sulfonyl chlorides. 3,701,806, 10-31-72, Cl. 260-543.00r.
Keogh, Raymond J.; and Wilczek, Frank J., to Photocircuits Corporation. Apparatus for making wire scribed circuit boards. 3,674,602, 7-4-72, Cl. 156-380.000.
Keough, Allen H.: *See—*
Clough, Philip J.; and Keough, Allen H., 3,646,749.
Keough, Patricia Tarpey: *See—*
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Keough, William R., 45% to Multifastener Company. Method of maintaining constant water volume in a molten salt solution. 3,645,802, 2-29-72, Cl. 148-15.
Keough, William R., to Multifastener Company. Heat treating method. 3,650,853, 3-21-72, Cl. 148-143.
Kepka, Alfred Anton Franz; and Kepka, Herwig Gunther. Safety handle for a ski pole and safety knob for such handle. 3,685,850, 8-22-72, Cl. 280-11.37h.
Kepka, Herwig Gunther: *See—*
Kepka, Alfred Anton Franz; and Kepka, Herwig Gunther, 3,685,850.
Kepner, Larry A., to Ford Motor Company. Four-speed ratio power transmission mechanism having simple planetary gear units. 3,640,153, 2-8-72, Cl. 74-759.
Kepner, Theodore S.; and Miller, Michael F., to Sylvania Electric Products, Inc. Compression switch. 3,654,407, 4-4-72, Cl. 200-86.
Keppel, Charles M.; and Weiss, Irwin K., to General Motors Corporation. Vehicle passive occupant restraining belt arrangement. 3,680,883, 8-1-72, Cl. 280-150.0sb.
Kepple, Orren N., to Creve Coeur Mfg., Co. Animal pen floor and method of forming. 3,633,548, 1-11-72, Cl. 119-28.
Kepple, Richard K.: *See—*
Hewko, Lubomyr O.; and Kepple, Richard K., 3,702,083.
Kepple, Richard K.; Hewko, Lubomyr O.; and Rogers, Arden W., to General Motors Corporation. Transmission. 3,702,084, 11-7-72, Cl. 74-752.00e.
Keppler, Arthur T., to Westinghouse Electric Corporation. Door for continuous-cleaning oven. 3,702,112, 11-7-72, Cl. 126-19.00r.
Keppler, Hans-Georg; and Wesslau, Hermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of aqueous dispersions of polymers of olefinically unsaturated monomers. 3,666,704, 5-30-72, Cl. 260-29.6.
Keppler, Johann Georg: *See—*
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Keppler, John E.; and Harris, Jesse W., to Tampo Manufacturing Company. Ground or road surface compacting machine. 3,683,763, 8-15-72, Cl. 94-50.00r.
Kerb, Ulrich: *See—*
Eder, Ulrich; Berndt, Hans-Detlef; Kerb, Ulrich; Wiechert, Rudolf; Zollner, Georg; Buchschacher, Paul; Furlenmeier, Andre; Furst, Andor; and Muller, Marcel, 3,661,897.
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,651,100.
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,655,650.
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Kerber, Elwyn W.: *See—*
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Kerber, Heinz, to Marz, J. J., G.m.b.H., Firma. Means for connecting together the ends of bands of fabric. 3,653,097, 4-4-72, Cl. 24-33.
Kerber, Horst; Hohenschutz, Heinz; Rauch, Konrad; and Scheidmeir, Walter. Recovery of butanols plural stage distillation and alkali metal hydroxide treatment. 3,689,371, 9-5-72, Cl. 203-37.000.
Kerch, John, 1/2 to Coffman, Verlan D. Resonant rhombic type television antenna. 3,660,848, 5-2-72, Cl. 343-749.000.
Kercher, Robert L.; and Telfer, Dugald J., to Vapor Corporation. Burner for a heater. 3,653,796, 4-4-72, Cl. 431-328.
Kerchner, Charles F., Jr., to Kalglo Electronics Co., Inc. Electric heat control system. 3,649,853, 3-14-72, Cl. 307-310.
Kerecman, Albert J.: *See—*
Jacobs, Harold; Kerecman, Albert J.; and Schumacher, James D., 3,691,478.
Kerek, John: *See—*
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Kerek, Richard: *See—*
Berry, Harry E., 3,670,929.
Kerekes, Bela, to Egyesult Izzolampa es Villamossagi Reszvenytarsasag. Process of filling discharge tubes constructed without exhaust tube. 3,650,593, 3-21-72, Cl. 316-4.
Kerekes, Bela, to Egyesult Izzolampa Es Villamossagi Reszveny-Tarsasag. Oxide cathode for an electric discharge device. 3,693,007, 9-19-72, Cl. 313-318.000.
Kereluk, Karl: *See—*
Brendgord, Thomas; and Kereluk, Karl, 3,678,921.
Kereluk, Karl, to American Sterilizer Company. Sterilizing apparatus for continuously sterilizing articles by flames means. 3,642,012, 2-15-72, Cl. 134-83.
Kereluk, Karl; and Lloyd, Robert S., to American Sterilizer Company. Microbiological surface sampler. 3,684,660, 8-15-72, Cl. 195-139.000.
Kerestury, Richard D.: *See—*
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Keresztes, Imre A.: *See—*
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Kerfoot, Oliver C.: *See—*
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Kerfoot, Oliver C.; and Duchmann, George W., to Continental Oil Company. Purification of detergent alkylates. 3,703,559, 11-21-72, Cl. 260-674.00a.
Kerhan, Roberto Henderson. Sugar cane harvesters. 3,659,404, 5-2-72, Cl. 56-13.9.
Kerimov, Niyazi Abdulkasim Ogly: *See—*
Mozokhin, Nikolai G.; Maskenskov, Konstantin Mikhailovich; Kerimov, Niyazi Abdulkasim Ogly; Guseinova, Zuleikha Ismail Kyzy; Mekhtiev, Rafik Isrofil Ogly; and Evart, Garri Voldemarovich, 3,682,146.
Kerkau, La Vern H. Valve actuator assembly. 3,679,172, 7-25-72, Cl. 251-229.000.
Kerkham, Algernon; and Eunson, Charles, to Dominion Bridge Company Limited. Positive opening and closing door and operating member for mine skips and the like. 3,632,002, 1-4-72, Cl. 214-740.
Kerkhoven, Frederik Johan; and Troost, Seyer, to Lever Brothers Company. Detergent slurry process. 3,639,288, 2-1-72, Cl. 252-135.
Kerley, James J., Jr.; and Schaller, Norman C., to United States of America, National Aeronautics and Space Administration. Apparatus for vibrational testing of articles. 3,699,807, 10-24-72, Cl. 73-71.600.
Kermath Manufacturing Corporation: *See—*
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Kern, Charles R. Transfer tool. 3,707,098, 12-26-72, Cl. 81-9.200.

Kern, Dale W., to Riegel Textile Corporation. Simulated pre-folded diaper construction. 3,703,175, 11-21-72, Cl. 128-284.000.
Kern, David W.: *See—*
Stelts, Philip D.; and Kern, David W., 3,672,222.
Kern, Forrest L., to Commercial Solvents Corporation. Explosive cartridge. 3,691,954, 9-19-72, Cl. 102-24.000.
Kern, Georg; and Wilke, Heinz, to Bosch, Robert, G.m.b.H. Conveyor track for assembly line production. 3,650,373, 3-21-72, Cl. 198-85.
Kern, Joerg: *See—*
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Kern, Joerg, to Ciba-Geigy Corporation. Heterocyclic compounds. 3,674,811, 7-4-72, Cl. 260-338.000.
Kern, John P.: *See—*
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Kern, Kenneth E.: *See—*
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Kern, Loyd R.: *See—*
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Kern, Neil C., to Motorola, Inc. Combined CW and pulse tracking system. 3,688,313, 8-29-72, Cl. 343-7.300.
Kern, Neil C., to Motorola, Inc. Command fuze. 3,688,701, 9-5-72, Cl. 102-70.20p.
Kern, Richard W.: *See—*
Creedon, John F.; and Kern, Richard W., 3,634,084.
Kern, Richard W., to International Business Machines Corporation. Optical system for positional and angular orientation determining apparatus. 3,672,778, 6-27-72, Cl. 356-138.000.
Kern Roll and Rubber Company: *See—*
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Kern, Roy F.: *See—*
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Kern, Roy F., to Caterpillar Tractor Company. Carbon steel spring elements. 3,689,329, 9-5-72, Cl. 148-36.000.
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Kern, Thomas W.; Barringer, George L.; Wands, William Ross; Leonard, Charles W.; and Goodman, Gerald W., to Kern Roll and Rubber Company. Expander roll assembly with oil-mist lubrication. 3,666,049, 5-30-72, Cl. 184-6.260.
Kern, Walter, to Teradyne, Inc. Low-force printed circuit male connection apparatus. 3,702,423, 11-7-72, Cl. 317-101.00d.
Kern, Winfried; Heymer, Gero; and Harnisch, Heinz, to Knapsack Aktiengesellschaft. Process for the manufacture of Maddrell's salt. 3,652,205, 3-28-72, Cl. 23-106.
Kerner, Herman J.; and Cresswell, John H., to Collins & Aikman Corporation. Loom shuttle. 3,631,900, 1-4-72, Cl. 139-196.
Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung: *See—*
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Dokopoulos, Petros, 3,641,289.
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Doose, Conrad; and Sassin, Wolfgang, 3,686,423.
Doose, Conrad; and Sassin, Wolfgang, 3,697,665.
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Kernick, Andress; Geyer, Manvel A.; Ernsberger, Glenn W.; and Vonderembse, John F., to Westinghouse Electric Corporation. Anticipatory feedback control for inverters. 3,636,430, 1-18-72, Cl. 321-9.
Kernick, Andress; Geyer, Manvel A.; and Ernsberger, Glenn W., to Westinghouse Electric Corporation. Apparatus for producing a low distortion pulse width modulated inverter output. 3,648,150, 3-7-72, Cl. 321-9.
Kernick, Andress; and Ernsberger, Glenn W., to Westinghouse Electric Corporation. Hysteresis-loop control for a power transformer. 3,697,855, 10-10-72, Cl. 321-9.00a.
Kernodle, Paul C., Jr.: *See—*
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Kerns, Quentin A., to United States of America, Atomic Energy Commission. Stabilization system for resonant cavity excitation. 3,638,127, 1-25-72, Cl. 328-227.
Kerns United Corporation: *See—*
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Keropian, Michael. Trunk support for sitting patients. 3,640,571, 2-8-72, Cl. 297-384.
Kerpchar, Michael, to Ocean Metrics, Inc. Range gated image systems using pulsed illuminators. 3,689,156, 9-5-72, Cl. 356-5.000.
Kerr, Archie F.; and Lagler, Karl R., to Western Electric Company, Incorporated. Soldering apparatus with variable feed. 3,652,819, 3-28-72, Cl. 219-85.
Kerr, Charles F., Jr., to Eltec, Inc. Single-pole double-break high-voltage switch assembly. 3,705,279, 12-5-72, Cl. 200-48.00s.
Kerr, David L.: *See—*
Brownstein, Arthur M.; and Kerr, David L., 3,634,328.
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Kerr, Douglas A., to Rolamite, Incorporated. Push button switches with interlocking diaphragm contact. 3,666,899, 5-30-72, Cl. 200-5.00f.
Kerr, Douglas M., to Stewart Engineering & Equipment Company, Inc. Conveyor apparatus. 3,653,493, 4-4-72, Cl. 198-189.
Kerr, Edward L. Domino-like game pieces. 3,680,866, 8-1-72, Cl. 273-137.00d.
Kerr, Edwin L.: *See—*
Atwood, John G.; and Kerr, Edwin L., 3,659,452.
Kerr, Edwin R.: *See—*
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Kerr, George T., to Mobil Oil Corporation. Zeolite esters. 3,682,996, 8-8-72, Cl. 260-448.00c.
Kerr Glass Manufacturing Corporation: *See—*
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Kerr, James A.; Rogers, Bernhard J.; and Sutherland, Leslie J., to Rank Organisation Limited, The. Apparatus for converting suppressed carrier chrominance signals into PAL format. 3,702,377, 11-7-72, Cl. 178-5.40p.
Kerr, James Richard, to Morvue, Inc. Electro-optical apparatus for precise on-line measurement of the thickness of moving strip material. 3,671,726, 6-20-72, Cl. 235-151.300.
Kerr, John, to Balfour, Henry, & Company Limited. Bearings. 3,649,088, 3-14-72, Cl. 308-9.
Kerr, John Anthony: *See—*
Robinson, David Phythian; Beale, Julian Robert Anthony; Shannon, John Martin; Kerr, John Anthony; and Das, Mukunda Behari, 3,653,978.
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Kerr, Ralph O., to Petro-Tex Chemical Corporation. Liquid phase oxidation of mononuclear aromatic compounds. 3,637,829, 1-25-72, Cl. 260-524.
Kerr, Robert: *See—*
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Kerr, Robert O.: *See—*
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Kerr, William C.: *See—*
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Kerr, William J., to Chicago Lock Co. Keeper lock for a separable fastener for a money bag or the like. 3,653,236, 4-4-72, Cl. 70-68.
Kerr, William J., to Chicago Lock Co. Lock with universal key ejector. 3,661,000, 5-9-72, Cl. 70-388.
Kerr-McGee Chemical Corporation: *See—*
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Kersch, Leonard A.; and Brown, Gordon M., to GCOptronics, Inc. Holographic interferometric method of detecting anomalies in laminate structure by reinforcing one layer. 3,649,127, 3-14-72, Cl. 356-109.
Kersch, Leonard A.; and Champagne, Edwin B., to GCOptronics, Inc. Holographic interferometry employing image plane holograms. 3,690,159, 9-12-72, Cl. 73-88.00a.
Kerschbaum, Walter E., to Eltra Corporation. Card cage for printed circuit cards. 3,664,510, 5-23-72, Cl. 211-41.
Kerschner, James J., to Acme Highway Products Corporation. Sealing member. 3,682,053, 8-8-72, Cl. 94-18.000.
Kerschner, Ralph C. Pack convertible to stool. 3,662,932, 5-16-72, Cl. 224-9.
Kershaw, John Knox; and Pearce, Edwin S., to Marmon Group, Inc., The. Roadbed broom and bristle. 3,649,984, 3-21-72, Cl. 15-179.
Kershaw Manufacturing Company, Inc.: *See—*
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Kershaw, Robert William: *See—*
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Kershaw, Royce G., to Kershaw Manufacturing Company, Inc. Apparatus for replacing old cross tie with new cross tie. 3,675,580, 7-11-72, Cl. 104-9.000.
Kershner, Carl J.: *See—*
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Kerst, Al F., to Monsanto Company. Copolymers from esters, salts and acid of partial anhydrides of phosphine oxide. 3,645,918, 2-29-72, Cl. 260-2.
Kerst, Al F., to Monsanto Company. Copolymers from phosphine oxide anhydrides. 3,645,919, 2-29-72, Cl. 260-2.
Kerst, Al F., to Monsanto Company. Anhydrides of organo-alkylidene phosphonyl phosphine oxides. 3,646,133, 2-29-72, Cl. 260-545.
Kerst, Al F., to Monsanto Company. Polymeric compositions. 3,654,230, 4-4-72, Cl. 260-75.
Kerst, Al F., to Monsanto Company. Esters, salts and acids of partial anhydrides of alkylidene phosphonyl phosphine oxides. 3,658,890, 4-25-72, Cl. 260-502.4.
Kerst, Al F., to Monsanto Company. Polymeric compositions. 3,661,857, 5-9-72, Cl. 260-75.
Kerst, Al F., to Monsanto Company. Flame resistant polyurethane prepared by adding an ethane diphosphonate into the urethane-forming mixture. 3,664,975, 5-23-72, Cl. 260-2.5.
Kerst, Al F., to Monsanto Company. Substituted ethane diphosphonic acids and salts and esters thereof. 3,705,191, 12-5-72, Cl. 260-502.40p.
Kerst, Herman: *See—*
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Kersten, Daniel D. Growing doll fingernails. 3,691,679, 9-19-72, Cl. 46-163.000.
Kersten, Emile V. Educational device. 3,662,077, 5-9-72, Cl. 35-37.
Kersten, Hilde: *See—*
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Kersten, Karl-Heinz; and Patschan, Wolfgang, to Telefunken Patentverwertungsgesellschaft m.b.H. Emitter electrode current controlled amplitude modulator. 3,673,515, 6-27-72, Cl. 332-31.00t.
Kersten, Samuel D., Jr.; Sautter, Alton F.; and Simon, John M., to Water Saver Faucet Co. Vandal proof valve control assembly. 3,692,046, 9-19-72, Cl. 137-382.000.
Kersten, Samuel D., Jr.; Sautter, Alton F.; and Simon, John M., to Water Saver Faucet Co. Valve assembly. 3,698,421, 10-17-72, Cl. 137-356.000.
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Kerstetter, Donald R., to Sylvania Electric Products, Inc. Method of making an electron discharge device grid having enhanced thermal conductivity and reduced secondary emission characteristics. 3,632,485, 1-4-72, Cl. 204-16.
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Kerti, Joseph A., to I-T-E Circuit Breaker (Canada) Limited. Flexible sealed housing for isolated phase bus. 3,692,923, 9-19-72, Cl. 174-84.00s.
Kerttula, Into Isak; and Jaatinen, Per Arno. Continuous action board press. 3,688,688, 9-5-72, Cl. 100-154.000.
Kerwin, Edward M., Jr.: *See—*
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Kerwin, James F.: *See—*
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Kerwin, Robert E., to Bell Telephone Laboratories, Incorporated. Technique for recording and testing the registration of sequential mask sets. 3,647,457, 3-7-72, Cl. 96-41.
Kerwin, Robert Eugene: *See—*
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Goldrick, Michael Richard; Kerwin, Robert Eugene; and Skinner, John George, 3,674,492.
Kerwit, Malcolm, to Kerwit Medical Products, Inc. Surgical treatment method and apparatus. 3,635,522, 1-18-72, Cl. 297-153.
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Kerwood, Joseph E.: *See—*
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Kerwood, Joseph Edward, to Monsanto Company. N-Azolyl sulfenamides. 3,645,987, 2-29-72, Cl. 260-79.5.
Kery, Ervin, to Enger Kress Company. Ladies. 3,677,317, 7-18-72, Cl. 150-28.00r.
Kes, William: *See—*
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Keshi, Akizo; Yoshii, Kunio; Yokoo, Makoto; and Nakai, Kaichi, to Takeda Chemical Industries, Ltd. Polyurethane foam process using distannoxane/aminoalochol catalyst combination. 3,703,484, 11-21-72, Cl. 260-2.5ac.
Keshin, Jesse G. Prosthesis for implanting around a body duct such as the urethra and method of treating urinary incontinence. 3,646,616, 3-7-72, Cl. 3-1.
Kesilman, Sol; Kravitz, Milton; and Penn, Hyman B., to Hodges, William & Co., Inc. Adjustable shelving. 3,675,598, 7-11-72, Cl. 108-144.000.
Kesinger, Donald, to Gates Rubber Company, The. Plant cover and method. 3,698,131, 10-17-72, Cl. 47-29.000.
Keskari, Charlotte, to Keskari, L., & Co. Fastener for clothing. 3,634,910, 1-18-72, Cl. 24-69.
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Keskitalo, Howard O., to Caterpillar Tractor Company. Loader bucket mounting assembly. 3,658,198, 4-25-72, Cl. 214-140.000.
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Kesling, Keith K., to General Motors Corporation. All plastic refrigerator door with integral bump stop handle. 3,634,971, 1-18-72, Cl. 49-460.
Kesling, Keith K., to General Motors Corporation. Adjustable door shelving. 3,682,521, 8-8-72, Cl. 312-138.00a.
Kesling, Peter C. Combination buccal tube molar pad and hook. 3,639,986, 2-8-72, Cl. 32-14.
Kesling, Peter C. Combination lock ring and uprighting spring orthodontic appliance. 3,641,672, 2-15-72, Cl. 32-14.
Kesling, Peter C. Holder for an orthodontic bracket. 3,657,817, 4-25-72, Cl. 32-14.
Kesling, Peter C. Arch wire annealer. 3,673,378, 6-27-72, Cl. 219-156.000.
Kesling, Peter C. Orthodontic appliance. 3,686,758, 8-29-72, Cl. 32-14.00a.
Kessel, Alvan A.: *See—*
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Kessler, Arthur; and Loseries, Peter, to Leitz, Ernst, G.m.b.H. Apparatus for electronic exposure control. 3,670,634, 6-20-72, Cl. 95-10.00c.
Kessler, Arthur R., to Electro Devices, Inc. Ground eliminator system. 3,657,714, 4-18-72, Cl. 340-255.
Kessler, Bernard V.: *See—*
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Kessler, Clarence W.: *See—*
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Kessler, Clarence W.; and Trzaska, Theodore T., to National Cash Register Company, The. Display device with inherent memory. 3,637,291, 1-25-72, Cl. 350-160.
Kessler, Claus, to Siemens Aktiengesellschaft. Metal-clad high voltage circuit breaker apparatus. 3,654,409, 4-4-72, Cl. 200-48.
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Kessler, Gerald. Low-friction abrasion-resistant plastic weatherstrip. 3,685,206, 8-22-72, Cl. 49-489.000.
Kessler, Gordon R., to Machlett Laboratories, Incorporated, The. Rotating anode for X-ray generator. 3,634,870, 1-11-72, Cl. 313-60.
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Kessler, Lawrence W.; and Sawyer, Samuel P., to Zenith Radio Corporation. Liquid crystal devices and systems for ultrasonic imaging. 3,707,323, 12-26-72, Cl. 350-161.000.
Kessler, Lester A. Tool storage device. 3,674,155, 7-4-72, Cl. 211-1.500.
Kessler, Milton. Double seal plastic cap with flexible rim-engaging flange. 3,632,005, 1-4-72, Cl. 215-41.
Kessler, Milton. Extensible perforate floor mat and friction device. 3,703,059, 11-21-72, Cl. 52-177.000.
Kessler, Seymour: *See—*
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Kessler, Warren W. Traveling chamber internal combustion engine. 3,696,797, 10-10-72, Cl. 123-8.090.
Kessler, Werner: *See—*
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Kesten, Martin; and O'Connor, Ralph Bruce, to Preston Engravers, Inc. Adjustable air eject die-cutting assembly. 3,698,271, 10-17-72, Cl. 83-99.000.
Kesten, Martin; and O'Connor, Ralph Bruce, to Preston Engravers, Inc. Rotary air eject die-cutting assembly. 3,698,272, 10-17-72, Cl. 83-99.000.
Kesten, Patrick N.; Webb, Richard A.; and Bedford, Raymond E., to General Motors Corporation. Method for processing resistor glass seal compositions employing organic liquid. 3,703,387, 11-21-72, Cl. 106-46.000.
Kester, Frank L., to United Aircraft Corporation. Carbon dioxide removal from breathable atmospheres. 3,659,400, 5-2-72, Cl. 55-33.
Kesterson, James W.; Hendrickson, Rudolph; deceased (by Hendrickson, Rosalind A.; heir); and Atkins, Cedric Donald, to State of Florida, Department of Citrus. Citrus seed clouding agent for beverage bases and food products. 3,660,105, 5-2-72, Cl. 99-28.
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Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich. Nickel-base metalloceramic strengthening material. 3,684,537, 8-15-72, Cl. 106-56.000.
Keszler, Julius L. Method of tenderizing curing and cooking a meat product. 3,663,233, 5-16-72, Cl. 99-107.000.
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Ketchpel, Richard D.: *See—*
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Ketchum, Calvin Eugene. Glove and boot drying device. 3,645,009, 2-29-72, Cl. 34-104.
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Ketelsen, Broder; Kiene, Wilfried; and Grosch, Hermann, to Fischer & Porter Company. Magnetic flowmeter having ferrous field armature. 3,690,172, 9-12-72, Cl. 73-194.0em.
Ketler, Albert E., Jr. Self-feeding sea water battery. 3,657,017, 4-18-72, Cl. 136-100.
Ketler, Albert E., Jr. Sea water battery with fiber-like metal cathode. 3,674,564, 7-4-72, Cl. 136-100.00r.
Ketley, Arthur D.; and Cogliano, Joseph A., to Grace, W. R., & Co. Gravure printing plate of photocurable material. 3,661,575, 5-9-72, Cl. 96-35.1.
Ketley, Arthur Donald; Kehr, Clifton Leroy; and Touchette, Jennie Lee, to Grace, W. R., & Co. Color process. 3,704,125, 11-28-72, Cl. 96-14.000.
Ketner, David C. Fluid applicators. 3,636,922, 1-25-72, Cl. 118-264.
Keto, August I., to Westinghouse Electric Corporation. Electrical connector assembly. 3,652,975, 3-28-72, Cl. 339-111.
Keto, August I.; and Klein, Kenneth R., to Westinghouse Electric Corporation. Electrical bushing assembly. 3,663,928, 5-16-72, Cl. 339-111.
Keto, August I., to Westinghouse Electric Corporation. Electrical connector assembly. 3,670,287, 6-13-72, Cl. 339-12.00r.
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Ketterer, Stanley J., to Singer Company, The. Lockstitch loop takers for sewing machines. 3,693,565, 9-26-72, Cl. 112-184.000.
Ketterer, Stanley J., to Singer Company, The. Bobbin thread replenishing mechanism for sewing machines. 3,693,566, 9-26-72, Cl. 112-184.000.
Ketterer, Stanley J., to Singer Company, The. Rotating shuttle drive mechanisms. 3,698,333, 10-17-72, Cl. 112-189.000.
Ketterer, Stanley J., to Singer Company, The. Self-threading needle. 3,699,911, 10-24-72, Cl. 112-224.000.
Kettering, Dale O., to Diebold Incorporated. Pneumatic carrier load ejector construction. 3,690,593, 9-12-72, Cl. 243-34.000.
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Keuchel, Herbert W., to Celanese Corporation. Foam fibrillated yarn and process. 3,641,760, 2-15-72, Cl. 57-157.
Keuchel, Herbert W., to Celanese Corporation of America. Process for treating elastomeric fibers. 3,663,677, 5-16-72, Cl. 264-210.
Keuerleber, Rudi; and Pahl, Fritz-Wilhelm, to Krauss-Maffei Aktiengesellschaft. Device for feeding flowable material to a mold cavity. 3,706,515, 12-19-72, Cl. 425-4.000.
Keuffel & Esser Company: *See—*
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Keulen, Gerben Jan; and Kroes, Johannes Petrus, to Bull General Electric (Nederland) N.V. Combined system for receiving and feeding cards. 3,664,658, 5-23-72, Cl. 271-9.000.

Keulen, Gerben Jan, to Bull General Electric (Nederland) N.V. Large-capacity card supply magazines comprising a device for retaining and transferring cards. 3,672,668, 6-27-72, Cl. 271-61.000.

Keunecke, Gerhard: *See*—
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Keunecke, Gerhard; and Kramer, Johannes, to Chemiebau, Dr. A. Zieren GmbH & Co., KG. Process for the evaporation of phthalic anhydride from the sump of a distillation zone. 3,691,022, 9-12-72, Cl. 203-71.000.

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Keur, Robert I., to Dick, A. B., Company. Phasing of ink drop charging. 3,681,778, 8-1-72, Cl. 346-75.000.

Keur, Robert I.; Miller, Sandra; and Dahl, Henry A., to Dick, A. B., Company. Method and apparatus for control of ink drop formation. 3,683,396, 8-8-72, Cl. 346-1.000.

Keusch, Andre, to Northern Electric Company Limited. Tape cutting and contact feed mechanism. 3,635,110, 1-18-72, Cl. 83-149.

Keusch, Siegfried: *See*—
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Keutgen, William A., to Union Carbide Corporation. Phenolic resin compositions and a method for the preparation thereof. 3,663,486, 5-16-72, Cl. 260-19.

KEV Electronics Corporation: *See*—
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Key, Kenneth Andrew; and Hooper, Clive Williams, to Imperial Chemical Industries Limited. Control of the motion of a reciprocating member. 3,656,291, 4-18-72, Cl. 57-156.

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Key Research and Development Company: *See*—
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Key, Robert L., III; and Christy, Melvin G., to Liggett & Myers, Incorporated. Method of treating tobacco with flavorants in a pneumatic system. 3,678,939, 7-25-72, Cl. 131-144.000.

Key Tronic Corporation: *See*—
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Keyes Fibre Company: *See*—
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Hatch, Wilfred E., 3,654,076.
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Keyes, Frederick G. Breath analyzing apparatus having means for evaporating moisture from breath conduit. 3,647,391, 3-7-72, Cl. 23-254.

Keyes, Karl A.: *See*—
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Keyes, Marion A., IV; and Gudaz, John A., to Beloit Corporation. Control system for paper refiners utilizing mass rate and machine property compensation. 3,654,075, 4-4-72, Cl. 162-254.

Keyes, Marion A., IV; and Gudaz, John A., to Beloit Corporation. Method of reducing curl in making a continuous web of paper. 3,658,642, 4-25-72, Cl. 162-197.

Keyes, Marion A., IV, to Beloit Corporation. Method and apparatus for measuring the thickness moisture profile of fibrous webs. 3,662,170, 5-9-72, Cl. 250-83.3.

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Keyl, Alex C.; and Brodie, Mary G., to Sherwin-Williams Company, The. High energy curing of photopolymerizable non-air inhibited polyester resin coatings. 3,669,716, 6-13-72, Cl. 117-62.000.

Keyless Lock Company, Inc.: *See*—
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Keyman, Jacobus M.; and Maschke, Arnold E., to Mobil Oil Corporation, mesne. Aqueous dispersion of a compatibilized reaction product formed by heat reacting a fatty acid ester adduct with a polyamide. 3,692,714, 9-19-72, Cl. 260-18.0pn.

Keymer, Mark W., to Malco Products, Inc. Hacksaw frame. 3,636,997, 1-25-72, Cl. 145-33.

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Keys, Wesley C.: *See*—
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Keyser, Naaman H., to Interlake, Inc. Adjustable strip conditioner. 3,704,614, 12-5-72, Cl. 72-165.000.

Keyston, David H., to Anza Pacific Corporation. Building corner form structure. 3,653,629, 4-4-72, Cl. 249-19.

Keystone Bay State Industries, Inc.: *See*—
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Keystone Columbia, Inc.: *See*—
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Keystone; division of Berkey Photo: *See*—
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Keystone Micro-Scan, Inc., mesne: *See*—
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Kezerian, Charles, to Stauffer Chemical Company. Certain substituted phosphorus containing alkyl thio methyl carboxylates and their uses as insecticides and acaricides. 3,692,901, 9-19-72, Cl. 424-212.000.

Keznickl, Eduard, to Vockenhuber, Karl and Hauser, Raimund. Intermittent drive mechanism for cinematographic apparatus. 3,640,441, 2-8-72, Cl. 226-49.

Kezuka, Eiji, to Matsushita Electric Industrial Co., Ltd. Means for discriminating between originating and terminating calls. 3,652,796, 3t28-72, Cl. 179-7.1.

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Kikuchi, Masakazu: *See—*
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Kikuchi, Masao; Kawashima, Toshihide; Kasahara, Koichi; and Nagayashi, Saneyoshi, to Tokyo Shibaura Electric Co., Ltd. Television conference telephone system. 3,636,265, 1-18-72, Cl. 179-188.

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Kikuchi, Tetsuya: *See—*
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Kikuchi, Tomio; and Arai, Kiyoyuki, to Kabushiki Kaisha Koparu. Exposure control apparatus for photographic cameras. 3,690,229, 9-12-72, Cl. 95-10.0ct.

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Kikuchi, Yoshiyasu, to Nippon Electric Company, Limited. Recognition apparatus with readout mode selection capability. 3,643,069, 2-15-72, Cl. 235-61.11.

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Kilby, Jack S.: *See—*
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Kilby, Jack S.; and Van Tassel, James H., to Texas Instruments, Incorporated. Circuit board process. 3,688,396, 9-5-72, Cl. 29-627.000.

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Kilby, Jack St. Clair, to Texas Instruments, Incorporated. Semiconductor device. 3,643,138, 2-15-72, Cl. 317-235.

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Konovalov, Boris Leonidovich; Spivak, Boris Volkovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman,

David Bentsionovich; Kildishev, Vasily Semenovich; and Stanislavsky, Lazar Yankelevich, 3,683,221.
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Killian, Claud R. Jet engine sound suppressor. 3,666,044, 5-30-72, Cl. 181-33.
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Killick, Herbert Percy, to C. M. W. laboratories Limited. Turbines. 3,639,074, 2-1-72, Cl. 415-110.
Killigrew, Daniel L., Jr., to Corning Glass Works. Pouring vessel. 3,688,936, 9-5-72, Cl. 215-100.00a.
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Kilpatrich, Stanley A.; and Niethammer, Woodard A., to Kaiser Aluminum & Chemical Corporation. Method and system for measuring sheet flatness. 3,703,097, 11-21-72, Cl. 73-159.000.
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Kimura, Yoh, to Nishikawa Rubber Co., Ltd. Packing strip structure. 3,699,718, 10-24-72, Cl. 49-491.000.
Kimura, Yoshimasa: *See—*
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Kinast, Leonard L. Radiator construction. 3,653,430, 4-4-72, Cl. 165-11.
Kinbara, Setsuro; and Kumahara, Tadashi, to Japan Atomic Energy Research Institute. Waveform discriminating circuit. 3,676,783, 7-11-72, Cl. 328-117.000.
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Kind, Guntram; Schroder, Karl-Heinz; and Busse, Rido, to Pulsotronic Merten KG. Separating device for separating metallic matter from non-metallic matter. 3,655,039, 4-11-72, Cl. 209-74.
Kindell, Colin David, to AMP Incorporated, mesne. Heat seal retaining clips. 3,673,643, 7-4-72, Cl. 24-73.00b.
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Kindell, Jerry L.; and Trubisky, Leonard G., to Honeywell Information Systems Inc. Rounding numbers expressed in 2's complement notation. 3,699,326, 10-17-72, Cl. 235-175.000.
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Kindig, Guilford Edwin, to Eastman Kodak Company. Print stripping mechanisms. 3,690,239, 9-12-72, Cl. 95-13.000.
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Kindlimann, Lynn E.; and Ansell, George S., to Allegheny Ludlum Steel Corporation. Internally nitrided steel powder and method of making. 3,650,729, 3-21-72, Cl. 75-.5.
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Kindo, Hideaki: *See—*
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King, Charles S. W.; and Pierce, John H., to Bouligny, R. H., Inc. Winding machine drive and tension control system. 3,685,755, 8-22-72, Cl. 242-45.000.
King, Charles S. W.; and Pierce, John H., to Bouligny, R. H., Inc. Piddler mechanism for strand material. 3,706,407, 12-19-72, Cl. 226-97.000.
King, Charles W., to General Mills, Inc. Multi-textured and patterned doughs. 3,677,769, 7-18-72, Cl. 99-86.000.
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King, Colin F., to Dunlop Holdings Limited. Pressure reducing devices. 3,677,300, 7-18-72, Cl. 138-42.000.
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King, Eddie L. Spacer and coupling device for cargo pallets. 3,643,603, 2-22-72, Cl. 105-366.
King, Edwin B., to Southern California Chemical Co., Inc. Continuous redox process for dissolving copper. 3,705,061, 12-5-72, Cl. 156-19.000.
King, Ellis Gray, to Georgia-Pacific Corporation. Process for preparation of a pesticide employing sulfonated lignins. 3,639,617, 2-1-72, Cl. 424-300.
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King, George. Explosive charge device and assembly. 3,703,780, 11-28-72, Cl. 42-1.00r.
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King, Henry, to Fulmer Research Institute Limited. Apparatus for measuring loads in ropes. 3,653,258, 4-4-72, Cl. 73-144.
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King, Henry L.; Ringwald, Eugene L.; and Randall, James C., to Monsanto Company. Thermally stable polyesters fibers having improved dyeability. 3,668,187, 6-6-72, Cl. 260-77.000.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., to Monsanto Company. Thermally stable polyester fibers having improved dyeability and dye light fastness. 3,668,188, 6-6-72, Cl. 260-77.000.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., to Monsanto Company. Thermally stable dyeable polyesters having improved dyed lightfastness. 3,669,925, 6-13-72, Cl. 260-45.950.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., to Monsanto Company. Thermally stable dyeable polyester fibers having inherent oil stain release properities. 3,669,933, 6-13-72, Cl. 260-77.000.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., to Monsanto Company. Thermally stable polyester fibers having inherent oil stain release properties. 3,669,935, 6-13-72, Cl. 260-77.5sp.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., to Monsanto Company. Thermally stable polyesters fibers having inherent disperse dye uptake and oil stain release properties. 3,671,494, 6-20-72, Cl. 260-77.000.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., to Monsanto Company. Thermally stable polyester fibers having inherent disperse dye uptake and superior oil stain release properties. 3,671,495, 6-20-72, Cl. 260-77.000.
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King, Herbert R., to Deering Milliken Research Corporation. Vulcanizing rubber covered wire. 3,695,228, 10-3-72, Cl. 118-620.000.
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King, James F., to Clark Equipment Company. Tractor shovel-fast lowering. 3,638,818, 2-1-72, Cl. 214-762.
King, James F., to Clark Equipment Company. Bulldozer mounting and controls. 3,698,490, 10-17-72, Cl. 172-803.
King, James F., Jr., to Bahnson Company, The. Lickerin pneumatic manifold with automatic modulating damper for regulating internal static pressure. 3,648,329, 3-14-72, Cl. 19-107.
King, James Frank; Beamon, Howard L.; Lathery, Willie M.; and Newlen, Kenneth W. Label sewing machine with thread cutter. 3,690,276, 9-12-72, Cl. 112-252.000.
King, James L., to King Instruments, Corporation. Machine for splicing and winding tape into a cassette. 3,637,153, 1-25-72, Cl. 242-56.
King, James L.; and Arrington, Lee O., to Eastman Kodak Company. Photographic printing apparatus. 3,677,641, 7-18-72, Cl. 355-83.000.
King, James Ping, to Pennwalt Corporation. Vinylidene fluoride coating compositions containing polyimides. 3,668,193, 6-6-72, Cl. 260-857.
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King, James Robert; and Myers, Gerald D., to King Nutronics Corporation. Parachute actuator testing apparatus. 3,677,062, 7-18-72, Cl. 73-4.00r.
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King, John Calaby, to Concrete Formwork Engineers Pty., Ltd. Scissors-type linkage. 3,700,070, 10-24-72, Cl. 182-16.000.
King, John G. Tamperproof alarm construction. 3,634,844, 1-11-72, Cl. 340-261.
King, John H.; and Larson, Russell W., to Litton Business Systems, Inc. Information gathering system. 3,683,156, 8-8-72, Cl. 235-61.11c.
King, John Howliston; and Smith, Frank, to Imperial Chemical Industries Limited. Continuous lead-in core for an electrode assembly. 3,671,415, 6-20-72, Cl. 204-284.000.
King, John Howliston; and Smith, Frank, to Imperial Chemical Industries Limited. Baseplate assembly for mercury-cathode cell. 3,679,570, 7-25-72, Cl. 204-297.00r.
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King, John O., Jr. Method and apparatus for severing tubing. 3,679,109, 7-25-72, Cl. 225-2.000.
King, John W.; and Sweeney, John D. Article conveyor system. 3,690,435, 9-12-72, Cl. 198-20.000.
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King, Leonard L., to United States of America, Army. Quick emplacement gun carriage mechanism. 3,662,647, 5-16-72, Cl. 89-40.00j.
King, Leonard Tony. Food heating device. 3,669,003, 6-13-72, Cl. 99-331.000.
King, Louis T. Pressure balanced flapper valve. 3,632,080, 1-4-72, Cl. 251-30.
King, Lowell A.; and Seegmiller, David W. Electrochemical cell with aluminum electrodes and different electrolyte concentrations in two compartments. 3,671,322, 6-20-72, Cl. 136-83.00r.
King, Maurice B., III; and Endress, James W., to Carrier Corporation. Seal and lubrication system for rotating machinery. 3,645,643, 2-29-72, Cl. 415-111.
King, Michael C., to Bell Telephone Laboratories, Incorporated. Three-dimensional display. 3,632,866, 1-4-72, Cl. 178-6.5.
King, Michael Charles, to Bell Telephone Laboratories, Incorporated. Three-dimensional display. 3,632,184, 1-4-72, Cl. 350-9.
King, Michael Charles, to Bell Telephone Laboratories, Incorporated. Moire pattern aligning of photolithographic mask. 3,690,881, 9-12-72, Cl. 96-27.000.
King, Michael F., to General Motors Corporation. Transmission control having a shift overlap valve. 3,685,370, 8-22-72, Cl. 74-645.000.
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King, Oliver F. Method for improving fuel combustion in a furnace and for reducing pollutant emissions therefrom. 3,699,903, 10-24-72, Cl. 110-1.00j.
King, Percy; and Garrett, Howard R., to Haskon Incorporated. Container fabricating machine. 3,699,743, 10-24-72, Cl. 53-186.000.

King, Phillip W.: *See—*
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King, Richard E.; and Pfaff, Richard C., to Epic Metals Corporation. Forming hollow ribs in metal sheet. 3,707,088, 12-26-72, Cl. 72-178.000.
King, Robert Bruce; and Kapoor, Pramesh N., 33 1/3 to Pressure Chemical Co. Arsenic and phosphorus containing polydentates. 3,657,298, 4-18-72, Cl. 260-440.
King, Robert G., to Texaco Inc. Lever operated hand tool improvement. 3,648,540, 3-14-72, Cl. 74-524.
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King, Robert W. Glider launcher for kites. 3,684,219, 8-15-72, Cl. 244-155.000.
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King, Roger M., to King, Milner. Bracelet construction. 3,633,357, 1-11-72, Cl. 59-35.
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King, William H., Jr.; and Dietz, Walter A., to Esso Research and Engineering Company. Method for preconditioning piezoelectric sorption detectors. 3,677,066, 7-18-72, Cl. 73-23.000.
King, William L.; and Stein, Edward S. Matrix switch with slide type actuator and conductive spring common to ground contact and movable contact. 3,705,963, 12-12-72, Cl. 200-16.00c.
King, William M.; and Cantor, Paul A., to Aerojet-General Corporation. Reverse osmosis and process and composition for manufacturing cellulose acetate membranes wherein the swelling agent is a di- or tri-basic aliphatic acid. 3,673,084, 6-27-72, Cl. 210-23000.
King, William M. Sod cultivator. 3,705,628, 12-12-72, Cl. 172-68.000.
King, William R. Constant flow pumping system. 3,669,572, 6-13-72, Cl. 417-390.000.
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Kingsbury, George R.; and Slater, Raymond L., to Clevite Corporation. Aluminum alloy-steel bearing and method of making same. 3,652,344, 3-28-72, Cl. 148-127.
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Kingshott, Patricia Alexandra, to Kingshott Investments (Proprietary) Limited. Method of straightening keratinous fibres. 3,665,935, 5-30-72, Cl. 132-7.
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Kingsley, Jack D.; and Prener, Jerome S., to General Electric Company. Electron energy sensitive phosphors for multi-color cathode ray tubes. 3,664,862, 5-23-72, Cl. 117-100.00b.
Kingsley, John T., to Motorola, Inc. Method of applying leads to an integrated circuit. 3,698,076, 10-17-72, Cl. 29-471.100.
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Kinjo, Hisao; Takashima, Seiichi; Kato, Takatoshi; and Iwabuchi, Yoshitaka, to Victor Company of Japan, Limited. Magnetic recording and reproducing system. 3,646,261, 2-29-72, Cl. 178-6.6.
Kinjo, Hisao, to Victor Company of Japan, Limited. Erasing system for a magnetic recording and reproducing apparatus using a rotary magnetic medium. 3,649,752, 3-14-72, Cl. 178-6.6.
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Kinjo, Hisao; and Suzuki, Toshi, to Victor Company of Japan, Limited. Commutator controlled magnetic recording and reproducing system. 3,651,279, 3-21-72, Cl. 179-100.2.
Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, to Canon Kabushiki Kaisha. Chlorine and iodine containing poly-9-vinylcarbazole electrophotographic polymers. 3,702,764, 11-14-72, Cl. 96-1.500.
Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, to Canon Kabushiki Kaisha. Chlorine and bromine containing poly-9-vinylcarbazole electrophotographic polymers. 3,705,031, 12-5-72, Cl. 96-1.500.
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Kinkaid, Robert John; and Asick, John Carl, to AMP Incorporated. Connector with releasable spring contact and releasing tool. 3,705,376, 12-5-72, Cl. 339-30.000.
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Kinley, John C. Method of expanding a liner. 3,691,624, 9-19-72, Cl. 29-523.000.
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Kinneman, William P., Jr.; and Uram, John R., Jr., to Sika Chemical Corporation. Coating compositions comprising and epoxy resin and aliphatic amine reaction products. 3,639,344, 2-1-72, Cl. 260-47.
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Kinnersly, Richard Furneaux. Internal combustion engine. 3,641,990, 2-15-72, Cl. 123-196.
Kinney, Alfred W., to Phillips Petroleum Company. Rim curling apparatus and method. 3,633,469, 1-11-72, Cl. 93-36.5.
Kinney, Alfred W., to Phillips Petroleum Company. Container closure. 3,642,167, 2-15-72, Cl. 220-60.
Kinney, Alfred W., to Phillips Petroleum Company. Packaging container and closure therefor. 3,643,830, 2-22-72, Cl. 220-44.
Kinney, Alfred W., to Phillips Petroleum Company. Combined container and closure. 3,651,981, 3-28-72, Cl. 220-60.
Kinney, Alfred W.; and Marshall, Frederick P., to Phillips Petroleum Company. Container and closure therefor. 3,669,305, 6-13-72, Cl. 220-60.00r.
Kinney, Alfred W., to Phillips Petroleum Company. Folded, one-piece, liquid-tight tray and blank for forming same. 3,669,340, 6-13-72, Cl. 229-31.
Kinney, Alfred W.; and Williams, James W., to Phillips Petroleum Company. Container and closure therefor. 3,672,536, 6-27-72, Cl. 220-60.00r.
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Kinney, John M., to American Welding & Manufacturing Company, The. Method and apparatus for calibrating the position of a tool and for gauging the dimensions of a workpiece. 3,641,849, 2-15-72, Cl. 82-1.
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Kinney, Selwyne P., 3,669,269.
Kinney, Selwyne P., to Kinney, S. P., Engineers, Inc. Automatic self-cleaning strainer. 3,640,395, 2-8-72, Cl. 210-334.
Kinney, Selwyne P., to Kinney, S. P., Engineers, Inc. Industrial plant for recovering solids from liquids. 3,669,269, 6-13-72, Cl. 210-122.000.
Kinnicutt, Roger, Jr.: *See—*
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Kinnicutt, Roger, Jr.; and Hill, William J., to Morgan Construction Company. Coil transfer and tipping apparatus. 3,655,079, 4-11-72, Cl. 214-146.5.
Kinnicutt, Roger, Jr. Self-tailing portable capstan. 3,677,521, 7-18-72, Cl. 254-183.000.
Kinnicutt, Roger, Jr., to Morgan Construction Company. Slant disc entry guide. 3,680,758, 8-1-72, Cl. 226-183.000.
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Kinnucan, Walter F., Jr. Trench forming, pipe laying and trench wall supporting machine. 3,638,438, 2-1-72, Cl. 61-72.1.
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Kinoshita, Koichi, to Katsuragawa Denki Kabushiki Kaisha. Persistent internal polarization process in electrophotography. 3,655,369, 4-11-72, Cl. 96-1.
Kinoshita, Koichi, to Katsuragawa Denki Kabushiki Kaisha. Method of electrophotography. 3,676,117, 7-11-72, Cl. 96-1.00r.
Kinoshita, Kunio: *See—*
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Kinoshita, Osamu, to Yokohama Rubber Co., Ltd. Process for decomposition of a polyurethan resin. 3,632,530, 1-4-72, Cl. 260-2.3.
Kinoshita, Ryohei; and Ishizawa, Masami, to Fujitsu Limited. Push-button switch. 3,701,064, 10-24-72, Cl. 335-205.000.
Kinoshita, Shouzo; and Yamamura, Isao, to Pioneer Electronic Corporation. Loud speaker system. 3,693,752, 9-26-72, Cl. 181-31.00a.
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Kinsel, Tracy Stewart, to Bell Telephone Laboratories, Incorporated. Optical time demultiplexer utilizing a single control pulse per frame. 3,670,165, 6-13-72, Cl. 250-199.000.
Kinsel, Tracy Stewart, to Bell Telephone Laboratories, Incorporated. Frequency shift keyed communication system. 3,699,445, 10-17-72, Cl. 325-30.000.
Kinsell, Earl G. Minnow seine poles. 3,699,700, 10-24-72, Cl. 43-14.000.
Kinsella, Daniel J., to National Union Electric Corporation. Combination alarm and filter bypass device for a suction cleaner. 3,678,882, 7-25-72, Cl. 116-114.0ad.
Kinsella, Thomas P.; and De Vittori, Joseph M., to Sherwin-Williams Company, The. Cathodic treatment of an electrocoating bath. 3,682,806, 8-8-72, Cl. 204-181.000.
Kinser, Russell S. Etching acid pick-up apparatus. 3,656,209, 4-18-72, Cl. 15-349.000.
Kinsey, Lewis R. Metal chimney with ceramic lining. 3,631,789, 1-4-71, Cl. 98-58.
Kinsey, Robert E. Automatic disk cutter. 3,668,958, 6-13-72, Cl. 83-88.000.
Kinsinger, William Charles, to Metagraphic Systems, Inc. Film viewer. 3,672,756, 6-27-72, Cl. 353-68.000.

Kinslow, William G., Jr., to Phillips Petroleum Company. Film positioning apparatus. 3,652,363, 3-28-72, Cl. 156-361.
Kinslow, William G., Jr., to Phillips Petroleum Company. Container labeling apparatus with gaseous airjet means. 3,674,606, 7-4-72, Cl. 156-497.000.
Kinstler, Robert Chalk, to American Cyanamid Company. Method of making 2-benzothiazole sulfenamides. 3,658,808, 4-25-72, Cl. 260-247.1.
Kinstley, Warren O.; and Sivertsen, David R., to Texas Instruments, Incorporated. Method of depositing a metal oxide film by electron bombardment. 3,704,216, 11-28-72, Cl. 204-164.000.
Kint, Bernice V. Protective sleeve for chairs. 3,643,905, 2-22-72, Cl. 248-345.1.
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Kiovsky, Thomas E.; and Wald, Milton M., to Shell Oil Company. Process for hydroconversion of organic materials. 3,668,109, 6-6-72, Cl. 208-10.
Kiovsky, Thomas E.; and Petzny, Wilfried J., to Shell Oil Company. Regeneration of metal halide catalyst. 3,685,962, 8-22-72, Cl. 23-97.000.
Kipling, Barry John, to Pye Limited. Closed circuit medical respirators. 3,695,263, 10-3-72, Cl. 128-145.600.
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Kipp, Adolf; and Payk, Heinz, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method of making molds for continuous casting machines. 3,646,799, 3-7-72, Cl. 72-370.
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Kippenhan, Dean O., to United States of America, Atomic Energy Commission. Fast-acting magnetic switching device for high level electrical signals and diverter incorporating same. 3,638,032, 1-25-72, Cl. 307-88.
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Kipping, Vernon L., 1/3 to Jobson, Roger J. and 1/3 to Costello, John P. Illuminated mirror for cosmetic case. 3,641,334, 2-8-72, Cl. 240-6.45.
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Kipps, Harry J.; and Doniguian, Thaddeus M., to Signal Oil and Gas Company. Cathodic protection system. 3,692,650, 9-19-72, Cl. 204-147.000.
Kira, Hiroshi, to General Telephone Company of California. Interior modular panel assemblies. 3,696,855, 10-10-72, Cl. 160-135.000.
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Kirby, Joseph L.; and Puerner, George O., to Mallory, P. R., & Co., Inc. Combination variable resistor and switching means. 3,644,865, 2-22-72, Cl. 338-173.
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Kirby, Peter, to Shell Oil Company. Benzothiadiazole salicylamides. 3,637,724, 1-25-72, Cl. 260-304.
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Kitanosono, Hidehiro: *See—*
Minami, Tohru; Nishio, Mikio; Toyama, Ichiro; Kawano, Shigeyoshi; Imai, Masumi; Takuma, Yutaka; and Kitanosono, Hidehiro, 3,688,555.

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Kitaoka, Atsushi: *See—*
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Fujisaki, Yoshisato; Aishima, Itsuho; Sakurai, Hisaya; Kitaoka, Atsushi; Kawasaki, Hironobu; and Oshima, Minoru, 3,632,670.

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Hata, Toju; Kamada, Hideo; Wakaki, Shigetoshi; Kudo, Shiro; Tomioka, Keitaro; Mirumo, Hirofuto; Kato, Eturo; and Shimizu, Motoaki, 3,660,578.

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Kitayama, Naoyuki: *See—*
Watanabe, Makoto; and Kitayama, Naoyuki, 3,633,467.

Kitazato Gakuen: *See—*
Matsumoto, Yoshio; Shirai, Michiko; Saito, Hiroko; Kawashima, Takeshi; and Sakabe, Yuzuru, 3,694.149.

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Kitazawa, Ryozo, to Nippon Columbia Kabushikikaisha (Nippon Columbia Co., Ltd.). Automatic tape cassette recording and playback apparatus. 3,690,587, 9-12-72, Cl. 242-181.000.

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Kitazawa, Yoriya: *See—*
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Kitazima, Seizo; and Yasuda, Tetuya, to Citizen Watch Co., Ltd. Mechanism for detachably attaching a timepiece movement to a watch casing, especially the middle ring thereof. 3,633,356, 1-11-72, Cl. 58-94.

Kitazume, Susumu; and Kasuga, Osamu, to Nippon Electric Company, Limited. Microwave band-pass filter with higher harmonics rejection function. 3,657,670, 4-18-72, Cl. 333-73.

Kitch, David Martin. Tape retaining arrangement. 3,645,473, 2-29-72, Cl. 242-210.

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Kitchel, Joseph Clyde: *See—*
Woodridge, David D.; Kitchel, Joseph Clyde; and Garrett, William R., 3,641,982.
Kitchell, Barbara S.: *See—*
Massey, Eddie H.; and Kitchell, Barbara S., 3,652,537.
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Kitchen, Alonzo G.; and Szalla, Frank J., to Phillips Petroleum Company. Resinous branched block copolymers. 3,639,517, 2-1-72, Cl. 260-879.
Kitchen, Clarence E., to McNeil Corporation. Axial plunger pump. 3,663,122, 5-16-72, Cl. 417-269.
Kitchen, John P.: *See—*
Slominski, Walter V.; Kitchen, John P.; and Mandusky, Jack C., 3,680,157.
Kitchener, Andrew Rajna, to Electrohome Limited. Bearing assembly for electric motors. 3,704,923, 12-5-72, Cl. 308-132.000.
Kitchener, Charles J.; and Rumball, Paul G., to USM Corporation. Means for transferring successive flexible work pieces. 3,696,942, 10-10-72, Cl. 214-1.0bb.
Kitchens, Garry C.; Hochstetler, Alan R.; and Kaiser, Kent, to Givaudan Corporation. Acid isomerization of chamigrenes. 3,678,119, 7-18-72, Cl. 260-666.0py.
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Kitchens, W. M.: *See—*
Kitchens, John T., 3,658,211.
Kitching, Anthony George; and Brown, Mervyn, to Rolls-Royce Limited. Acoustic linings. 3,640,357, 2-8-72, Cl. 181-33.
Kite, Francis Ervin: *See—*
Germino, Felix Joseph; Stejskal, Joseph Frank; Christensen, Edwin Hans; and Kite, Francis Ervin, 3,661,895.
Kitman, Irwin I. Combination burglar and fire alarm. 3,641,571, 2-8-72, Cl. 340-420.
Kito, Katsumi, to Mitsubishi Denki Kabushiki Kaisha. Safety devices for entrance and exit for moving handrail. 3,670,862, 6-20-72, Cl. 198-16.000.
Kito, Kiyoharu: *See—*
Chiba, Matsubei; Kito, Kiyoharu; Mizutani, Hiroshi; and Kachi, Masayasu, 3,659,438.
Kito, Masahiro, to Aisin Seiki Kabushiki Kaisha. Pressure control device for hydraulic brake system of powered vehicles. 3,661,429, 5-9-72, Cl. 303-54.
Kito, Masahiro, to Aisin Seiki Kabushiki Kaisha. Hydraulic brake pressure control valve assembly. 3,684,330, 8-15-72, Cl. 303-54.000.
Kitowski, George J. Coin holder with removeable mounting bracket. 3,675,664, 7-11-72, Cl. 133-6.000.
Kitrell, James R., to Chevron Research Company. Hydrocracking catalyst comprising a layered clay-type crystalline aluminosilicate component, a group VIII component and zinc, and process using said catalyst. 3,632,501, 1-4-72, Cl. 208-60.
Kitrilakis, Sotiris; and Robinson, Thomas C., to Tecna Corporation. Percutaneous lead device. 3,699,956, 10-24-72, Cl. 128-348.000.
Kitrilakis, Sotiris, to Tecna Corporation. Surface or lining compatible with blood or other tissue. 3,700,380, 10-24-72, Cl. 3-1.000.
Kitrilakis, Sotiris S., to Tecna Corporation. Oxygenator. 3,674,440, 7-4-72, Cl. 23-258.500.
Kitsnik, Henrik M.: *See—*
Enarsson, Knut; and Kitsnik, Henrik M., 3,688,563.
Kitson, Joshua Wilson, to U.S. Philips Corporation. Refrigerator cabinets. 3,632,011, 1-4-72, Cl. 220-9.
Kitson, Joshua Wilson, to U.S. Philips Corporation. Refrigerator cabinets. 3,632,012, 1-4-72, Cl. 220-9.
Kitson, Joshua Wilson, to U.S. Philips Corporation. Refrigerator cabinets. 3,707,243, 12-26-72, Cl. 220-9.00f.
Kitsuda, Minoru. Cap member for a high-pressure gas container. 3,648,885, 3-14-72, Cl. 220-85.
Kitta, Kenichi: *See—*
Kumada, Akio; Suzuki, Kenkichi; and Kitta, Kenichi, 3,670,211.
Kittel, Arthur; and Chvatlinsky, Kurt, to Olympia Werke AG. Typebar drive mechanism. 3,643,772, 2-22-72, Cl. 197-14.
Kittel, Arthur; Frank, Rudi; and Purr, Horst, to Olympia Werke AG. Apparatus for power driven typewriters and similar machines. 3,643,775, 2-22-72, Cl. 197-66.
Kittel, Clive Francis: *See—*
Taysom, Patrick Arnold; Lewis, Brian Mark; and Kittel, Clive Francis, 3,646,810.
Kittel, Hermann. Selective printer including settable resiliently driven type wheels. 3,669,016, 6-13-72, Cl. 101-93.00c.
Kittleman, Edmund T.: *See—*
Gray, Roy A.; Kittleman, Edmund T.; and Ray, Gardner C., 3,632,804.
Gray, Roy A.; Kittleman, Edmund T.; and Ray, Gardner C., 3,707,512.
Kittredge, Frank M., to Ford Motor Company. Dual diaphragm distributor. 3,678,806, 7-25-72, Cl. 92-48.000.
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Pressman, Gerald L.; and Kittredge, Thomas D., 3,647,291.
Pressman, Gerald L.; and Kittredge, Thomas D., 3,697,164.
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Jaffe, Joseph; and Kittrell, James R., 3,639,268.
Jaffe, Joseph; and Kittrell, James R., 3,641,096.
Jaffe, Joseph; and Kittrell, James R., 3,669,873.
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Kittrell, James R., to Chevron Research Company. Method for making multi-component catalysts. 3,639,271, 2-1-72, Cl. 252-441.
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Iwakura, Yoshio; Uno, Keikichi; Kajiyama, Shigeru; Kituda, Yoshhiro; Kusushita, Takao; and Iijima, Kunio, 3,632,536.
Kitz, Norbert: *See—*
Drage, James John; and Kitz, Norbert, 3,639,742.
Kitz, Norbert, to Bell Punch Company Limited. Calculating machine with key controlled gates setting function counter states. 3,639,743, 2-1-72, Cl. 235-160.
Kitzen, Maurice R.: *See—*
Blaha, Emil; and Kitzen, Maurice R., 3,656,913.
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Kitzner, Ernest W., to Ford Motor Company. Fuel tank vapor separator system having pivoting arm vapor pickup. 3,672,537, 6-27-72, Cl. 220-85.0vr.
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Maegawa, Harumi; Sato, Yohihiro; Furuhata, Yasuo; and Kiumi, Takayuki, 3,641,522.
Kivalo, Pekka: *See—*
Virtanen, Rauno Erkki; and Kivalo, Pekka, 3,649,499.
Kivela, William C.: *See—*
Woerner, Lloyd M.; Kivela, William C.; and Quaal, George J., 3,634,116.
Kivenson, Gilbert, to Westinghouse Electric Corporation. Vortex reaction type fluid flow indicator. 3,683,691, 8-15-72, Cl. 73-194.00b.
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Kiviranna, John, to Forbro Design Corporation. Regulated power supply lead-drop compensation. 3,659,189, 4-25-72, Cl. 323-9.
Kivlen, John A.; Struth, Bert W.; and Weiss, Clifford P., to Esso Research and Engineering Company. Decoking of onstream thermal cracking tubes. 3,641,190, 2-8-72, Cl. 260-683.
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Kiwiet, William B., to Tektronix, Inc. Numerical control system dependent on vector magnitude. 3,693,064, 9-19-72, Cl. 318-571.000.
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Kiyohara, Shinzo; and Shibazaki, Yasuichi, to Isomura Sangyo Kaisha, Ltd. Method of electrolytically coating lead dioxide on the surface of various materials. 3,668,085, 6-6-72, Cl. 204-57.
Kiyomitsu, Eto: *See—*
Nishi, Seiya; Oshio, Akira; and Kiyomitsu, Eto, 3,677,780.
Kiyomiya, Hiromoto; Fukumiya, Yukio; Aoki, Mithuzi; and Mama, Hiromichi, to Hitachi, Ltd. and Hitachi Electronics Engineering Co., Ltd. Telephone system. 3,703,611, 11-21-72, Cl. 179-99.000.
Kiyomiya, Yutaka: *See—*
Ikeda, Yoneichi; Hattori, Michio; and Kiyomiya, Yutaka, 3,649,179.
Ikeda, Yoneichi; Takeda, Tsukasa; Hattori, Michio; Kiyomiya, Yutaka; and Yamamoto, Takashi, 3,694,322.
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Kiyooka, Shoichi: *See—*
Shimotori, Kazumi; Takagi, Michiyasu; Kawamura, Yoshihisa; and Kiyooka, Shoichi, 3,663,767.

Kiyoshi, Mabuchi: *See—*
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Kizer, Donald E.; Smith, Roy A.; and Speidel, Edward O., to United States of America, Atomic Energy Commission. Method of making a nuclear reactor fuel element of uranium mononitride in a refractory metal matrix. 3,662,042, 5-9-72, Cl. 264-.500.
Kizer, Joseph Austin A.: *See—*
Burke, Oliver W., Jr.; Kizer, Joseph Austin A.; and David, Pauls, 3,673,168.
Kizer, Richard W.: *See—*
Karstensen, Karl W.; and Kizer, Richard W., 3,704,075.
Kizielewski, Edward T.: *See—*
O'Neal, Donald V.; and Kizielewski, Edward T., 3,677,630.
Kizilos, Apostolos P., to United States of America, Navy. Variable deflection thrusters for jets. 3,670,994, 6-20-72, Cl. 244-42.0cc.
Kizilos, Apostolos P., to Honeywell Inc. Digital absolute pressure ratio indicator. 3,686,951, 8-29-72, Cl. 73-388.00r.
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Kizu, Humio: *See—*
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Kjallstrom, Arne Rudolf: *See—*
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Sandstrom, Jan Olof; and Kjellin, Per Gunnar, 3,641,049.
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Chao, Tai S.; and Kjonaas, Manley, 3,632,630.
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Kjos, Magne Jarle, to Burroughs Corporation. Apparatus for guiding tape between two planes. 3,645,471, 2-29-72, Cl. 242-182.
Klaas, Ruth Elizabeth Barry: *See—*
Blaisdell, Donald Stapf; and Klaas, Ruth Elizabeth Barry, 3,697,420.
Klaas, William: *See—*
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Klaassen, Anne: *See—*
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Klabunde, Steven E.: *See—*
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Klabunde, Ulrich, to Du Pont de Nemours, E. I., and Company. Reaction products of ketones with carbonyl-pH_3 complexes of chromium, molybdenum, and tungsten. 3,702,336, 11-7-72, Cl. 260-429.00r.
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Kladich, Joseph. Self-centering steady rest chucks. 3,664,216, 5-23-72, Cl. 82-38.
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Klahr, Carl N. Electro-optic phase modulator. 3,667,829, 6-6-72, Cl. 350-160.000.
Klahre, Guenter: *See—*
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Klapdohr, Hans, to Rheinmetall G.m.b.H. Gun-barrel moving device. 3,638,526, 2-1-72, Cl. 89-43.
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Klassen, John P. Swath turner. 3,702,052, 11-7-72, Cl. 56-370.000.
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Klasson, George A., to Air Products and Chemicals, Inc. Plasma arc welding torch. 3,632,951, 1-4-72, Cl. 219-75.
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Klatt, Alfred: *See—*
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Klatt, Robert Walter, to Fairchild Industries, Inc. Synchro-to-digital converter. 3,651,514, 3-21-72, Cl. 340-347.
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Klaui, Heinrich, to Hoffmann-La Roche Inc. Carotenoid compositions. 3,655,406, 4-11-72, Cl. 99-148.
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Klauke, Erich: *See*—
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Alles, Hans-Ulrich; Klauke, Erich; Kuhle, Engelbert; Eue, Ludwig; and Hack, Helmuth, 3,639,668.
Bien, Hans-Samuel; and Klauke, Erich, 3,669,951.
Kuhle, Engelbert; Klauke, Erich; Hamburger, Brigitte; and Steinfatt, Fritz, 3,636,076.
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Scholl, Hans-Joachim; and Klauke, Erich, 3,694,507.
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Klaus, Rodenkirchen: *See*—
Gropper, Hans; Mietzner, Franz; Ludwigshafen, Kinkel; Klaus, Rodenkirchen; and Urban, Friedrich, 3,635,936.
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Klausing, Melvin H., to Combustion Engineering, Inc. Setting gage for multiple head tool holder. 3,676,935, 7-18-72, Cl. 33-185.00r.
Klausmann, Milton H.; and Brucker, Henry J., to Seal-Spout Corporation. Carton feed mechanism for spout inserting machine. 3,690,223, 9-12-72, Cl. 93-53.00r.
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Klausner, Kenneth, to Drackett Company, The, mesne. Cleanser, disinfectant, combinations thereof and aerosol systems containing same. 3,666,668, 5-30-72, Cl. 252-90.000.
Klavins, Aldis, to Honeywell Information Systems, Inc. Use of control words to change confiquration and operating made of a data communication system. 3,699,525, 10-17-72, Cl. 340-172.500.
Klavsons, Uldis; Perun, William D.; Stoops, Denzel D.; and Terry, David M., to Xerox Corporation. Toner developer system. 3,638,613, 2-1-72, Cl. 118-637.
Klawitter, Vernon L. Power vacuum truck. 3,675,267, 7-11-72, Cl. 15-340.
Klawitter, William A.: *See*—
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Klawson, Rennold L.: *See*—
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Klayman, Daniel L.; and Gilmore, W. Franklin, to United States of America, Army. Synthesis of N-substituted 2-aminoethanethiosulfuric acids. 3,655,715, 4-11-72, Cl. 260-453.
Klazkin, Leonard; and Feldstein, Jesse, to Woodron Inc. Inlay furniture. 3,652,372, 3-28-72, Cl. 161-39.
Kleban, Edward. Adjustable belt assembly. 3,631,732, 1-4-72, Cl. 74-231.
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Klebe, Johann F., to General Electric Company. Copolymers of poly (2,6-diphenyl-1,4-phenylene oxide). 3,639,337, 2-1-72, Cl. 260-47.
Klebel, Wolfram, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Apparatus for welding thin metal sheets. 3,641,309, 2-8-72, Cl. 219-123.
Klebert, Wolfgang: *See*—
Becker, Gustav; Griepentrog, Heinz; Klebert, Wolfgang; and Reich, Friedrich, 3,655,437.
Meisert, Ernst; Striegler, Hellmut; Koch, Hans-Joachim; and Klebert, Wolfgang, 3,692,708.
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Klebl, Wolfram, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method and apparatus for testing production of high frequency cables. 3,672,230, 6-27-72, Cl. 73-506.000.
Klecic, Frank J.: *See*—
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Kleckner, Harold F., to McDonnell Douglas Corporation. Turbofan engine thrust reverser. 3,699,682, 10-24-72, Cl. 60-226.00a.
Klee, Gerhard, to Samson-Apparatebau A.G. Fluid operated control apparatus. 3,633,604, 1-11-72, Cl. 137-83.
Klee, Gerhard, to Samson-Apparatebau A.G. Control element for the pneumatic establishment of logical connections. 3,635,248, 1-18-72, Cl. 137-625.5.
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Klee, Maurice: *See*—
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Kleefeld, William E., to Calgon Corporation. Photoelectric controlled dispenser. 3,650,435, 3-21-72, Cl. 222-52.
Kleeger, Allan A., to Electrohome Limited. A.C. balance control networks. 3,686,582, 8-22-72, Cl. 330-142.000.
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Kleen, Bergert G., to International Business Machines Corporation. Printed circuit spark gap protector for cathode ray tube. 3,683,228, 8-8-72, Cl. 313-318.000.
Kleep, Christian: *See*—
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Kleer-Vu Industries, Inc.: *See*—
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Kleesattel, Claus, to Cavitron Corporation. Vibration sensor utilizing eddy currents induced in member vibrating in the field of magnet. 3,697,867, 10-10-72, Cl. 324-40.000.
Kleffmann, Gunter, to Anker-Werke Aktiengesellschaft. Control device for a registering business machine. 3,688,979, 9-5-72, Cl. 235-62.00f.
Klehm, William G., Jr., to Burroughs Corporation. Progammable dual-in-line pin connector for integrated circuit units. 3,693,131, 9-19-72, Cl. 339-17.0cf.
Kleiman, Joseph P.; and Mack, Robert L., to Ethyl Corporation. Herbicidal organophosphorus-nitrogen. 3,658,506, 4-25-72, Cl. 71-87.
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Kleimann, Helmut: *See*—
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Klein, Aaron David. Phased array laser source. 3,691,483, 9-12-72, Cl. 332-7.510.
Klein, Albert M., to International Telephone and Telegraph Corporation. Waveform sensing and tracking system. 3,643,169, 2-15-72, Cl. 328-150.
Klein, Alfons; and Wedemeyer, Karlfried, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of cyclopent-2-enyl phenols. 3,689,573, 9-5-72, Cl. 260-621.00r.
Klein, Andre, to Societe Anonyme: Ugine Kuhlmann. Process for chromium tanning and bath for carrying out said process. 3,690,812, 9-12-72, Cl. 8-94.270.
Klein, Artur: *See*—
Klein, Ernst G.; and Klein, Artur, 3,665,655.
Klein, Avigdor, to Thomas & Betts Corporation. Stripping and crimping apparatus. 3,659,328, 5-2-72, Cl. 29-203.
Klein, Bernard, to Hoffmann-La Roche Inc. Methods and compositions for determining glucose in blood. 3,653,841, 4-4-72, Cl. 23-230.
Klein, Bernard, to Hoffmann-La Roche, Inc. Colorimetric methods and compositions for determining iron in blood. 3,667,915, 6-6-72, Cl. 23-230.00b.
Klein, Bernard; and Searcy, Ronald Loy. Substrate and method for α-amylase assay. 3,694,318, 9-26-72, Cl. 195-103.50r.
Klein, Bruce W., to Bendix Corporation, The. Secondary shoe brake lining. 3,647,033, 3-7-72, Cl. 188-251.
Klein, Carl F., to Johnson Service Company. Motion detector. 3,668,703, 6-6-72, Cl. 343-5.
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Klein, David Arthur, to Du Pont de Nemours, E. I., and Company. Process for preparing dodecanedinitrile. 3,707,546, 12-26-72, Cl. 260-465.200.
Klein, David X.: *See*—
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Klein, Donald L.; Mac Intyre, Michael W.; and Rothman, Lawrence J., to International Business Machines Corporation. Cyclic polyisoprene photoresist compositions. 3,669,669, 6-13-72, Cl. 96-91.00n.
Klein, Edward I., to V-Mark Automation Ltd. Metering pump. 3,653,788, 4-4-72, Cl. 417-508.

Klein, Emil, 20% to Kinnroth, Samuel F. Automatic chess time indicator. 3,698,180, 10-17-72, Cl. 58-145.00d.
Klein, Enrique J.: *See—*
Blomenkamp, Robert W.; and Klein, Enrique J., 3,634,792.
Klein, Ernst G.; and Klein, Artur, to Waldrich, H. A., GmbH. Device for an automatic exchange of rollers in roller polishing machines and the like. 3,665,655, 5-30-72, Cl. 51-215.
Klein, Erwin. Dental illumination device. 3,683,503, 8-15-72, Cl. 32-27.000.
Klein, Eugen. Method of condensing metallic vapor. 3,634,067, 1-11-72, Cl. 75-66.
Klein, Frank F., Jr. Bicycle stem lock. 3,660,995, 5-9-72, Cl. 70-187.
Klein, Georg Anton, to Ciba-Geigy AG. Pigments of the perylene tetracarboxylic acid diimide series. 3,647,798, 3-7-72, Cl. 260-281.
Klein, George P. Signal characteristic measuring system of the digital type. 3,634,851, 1-11-72, Cl. 340-347.
Klein, Gerald: *See—*
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Klein, Gerhart P.: *See—*
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Klein, Gerhart P.; and Wingood, Ivan L., to Mallory, P. R., & Co. Inc. Cluster anode for electrolytic capacitors. 3,641,399, 2-8-72, Cl. 317-230.
Klein, Gerhart P., to Mallory, P. R., & Co. Inc. Electrode stencil for anodic printing. 3,654,117, 4-4-72, Cl. 204-224.
Klein, Gerhart P., to Mallory, P. R., & Co., Inc. Strip configuration for capacitors. 3,667,002, 5-30-72, Cl. 317-230.000.
Klein, Gerhart P.; and Wingood, Ivan L., Jr., to Mallory, P. R., & Co., Inc. Anodes for solid electrolytic capacitors. 3,688,161, 8-29-72, Cl. 317-230.000.
Klein, Gerhart P., to Mallory, P. R., & Co., Inc. Sintering furnace. 3,704,872, 12-5-72, Cl. 263-3.000.
Klein, Gregory L.: *See—*
Byam, Erwin B.; and Klein, Gregory L., 3,633,766.
Klein, Gunter; and Neumann, Johann, to Linde Aktiengesellschaft and Kempchen & Co. G.m.b.H. Separation of fluids by diffusion through semipermeable membranes. 3,651,618, 3-28-72, Cl. 55-16.
Klein, Hans: *See—*
Clemens, Kurt; and Klein, Hans, 3,652,823.
Klein, Hans; and Kluger, Wolfgang, to Polysius AG. Process and apparatus for the continuous pneumatic treatment of fine material. 3,656,717, 4-18-72, Cl. 259-4.
Klein, Hans-Christof; and Werner, Gunther, to Teves, Alfred, G.m.b.H. Method of and apparatus for measuring angular acceleration. 3,649,871, 3-14-72, Cl. 317-5.
Klein, Hans-Christof; Beller, Hans; and Schrader, Gert, to Teves, Alfred, Maschinen-und Armaturenfabrik KG. Electrical warning system for vehicular brake installations. 3,688,255, 8-29-72, Cl. 340-52.00c.
Klein, Hans-Christof, to Teves, Alfred, G.m.b.H. Nonskid brake system for motor vehicle with pressurized hydraulic system. 3,706,479, 12-19-72, Cl. 303-21.00f.
Klein, Hans-Christoff; and Byrne, James D., to International Telephone and Telegraph Corporation. Antiskid brake system for vehicles. 3,639,009, 2-1-72, Cl. 303-21.
Klein, Harold L. Meat ball forming machine. 3,691,594, 9-19-72, Cl. 17-32.000.
Klein, Harold T.: *See—*
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Klein, Harvey Gerald: *See—*
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Klein, Heinrich: *See—*
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Klein, Heinz, to Volkswagenwerk Aktiengesellschaft. Fuel injection device for internal combustion engines. 3,662,721, 5-16-72, Cl. 123-32.0ae.
Klein, Helmut: *See—*
Muller, Eckart; Eisenlohr, Karl Heinz; and Klein, Helmut, 3,707,575.
Klein, Herbert H., to Unarco Industries, Inc. Connecting hook. 3,637,086, 1-25-72, Cl. 211-176.
Klein, Howard C.: *See—*
Greenbaum, Sheldon B.; Griffith, Richard; and Klein, Howard C., 3,632,647.
Klein, Howard Paul; Schulze, Heinz; and Speranza, George Phillip, to Jefferson Chemical Company, Inc. Catalyst for polymerization of ethylene oxide. 3,654,183, 4-4-72, Cl. 252-431.
Klein, Hyman J.; and Trupin, Bennett W., to Instrument Systems Corporation. Scrap block. 3,662,425, 5-16-72, Cl. 15-245.
Klein, John Ray, to Klein & Anderson Ltd. Tractor trailer lighting systems. 3,671,757, 6-20-72, Cl. 307-10.0ls.
Klein, Josef: *See—*
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Klein, Karl P.: *See—*
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Schmitt, George J.; Klein, Karl P.; and Reimschuessel, Herbert K., 3,634,363.
Klein, Keith W., to General Electric Company. Viscous damped pivot system for a phonograph tone arm. 3,647,224, 3-7-72, Cl. 274-23.
Klein, Keith W.; and Dimond, Herbert M., to General Electric Company. Manually operable molded case circuit breaker with special trip testing means. 3,671,890, 6-20-72, Cl. 335-22.000.
Klein, Kenneth R.: *See—*
Keto, August I.; and Klein, Kenneth R., 3,663,928.
Klein, Kenneth R., to Westinghouse Electric Corporation. Transformer slide switch with contact clamping means. 3,673,364, 6-27-72, Cl. 200-16.00c.
Klein, Lawrence C.; and Stevens, Laurence G., to Universal Oil Products Company. Recovery of copper values from slag. 3,632,308, 1-4-72, Cl. 23-125.
Klein, Lawrence C.; and Stevens, Laurence G., to Universal Oil Products Company. Preparation of cuprous oxide. 3,640,684, 2-8-72, Cl. 23-147.
Klein, Leo I., to Emerson Electric Co. Electrical connections. 3,702,387, 11-7-72, Cl. 219-91.000.
Klein, Leonard F., to General Instrument Corporation. Delay and controlled pulse generating circuit. 3,638,047, 1-25-72, Cl. 307-293.
Klein, Lewis A. Treatment of rheumatoid arthritis and related diseases. 3,636,202, 1-18-72, Cl. 424-183.
Klein, Louis A.: *See—*
Newman, Daniel J.; and Klein, Louis A., 3,679,549.
Klein, Marvin Bertrand; and Sosnowski, Thomas Patrick, to Bell Telephone Laboratories, Incorporated. Metal ion laser having an auxiliary gas. 3,663,892, 5-16-72, Cl. 331-94.5.
Klein, Marvin Bertrand; and Silfvast, William Thomas, to Bell Telephone Laboratories, Incorporated. Broad spectrum selenium ion laser. 3,694,767, 9-26-72, Cl. 331-94.500.
Klein, Melvin S.: *See—*
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Klein, Milton. Rural delivery mail box. 3,706,411, 12-19-72, Cl. 232-17.000.
Klein, Morris R.: *See—*
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Klein, Norman E., to Deering Milliken Research Corporation. Apparatus for the production of non-woven materials. 3,646,647, 3-7-72, Cl. 28-1.
Klein, Norman E., to Deering Milliken Research Corporation. Method and apparatus for positioning a continuous thread or cord on a support surface. 3,674,584, 7-4-72, Cl. 156-173.000.
Klein, Norman E., to Deering Milliken Research Corporation. Coating apparatus. 3,703,154, 11-21-72, Cl. 118-6.000.
Klein, Norman E., to Deering Milliken Research Corporation. Automatic belt doffer. 3,706,623, 12-19-72, Cl. 156-394.000.
Klein, Paul R. Sound-operated, yes-no responsive switch. 3,688,126, 8-29-72, Cl. 307-116.000.
Klein, Peter O.; and Reid, Jerome L., to Polaroid Corporation. Photographic color diffusion-transfer unitary elements comprising an emulsion layer containing polyvinyl-hydrogen-phthalate therein. 3,705,798, 12-12-72, Cl. 96-3.000.
Klein, Ralph Arthur; and Cerchia, Angelo, to Borden, Inc. Canned jel dessert. 3,658,556, 4-25-72, Cl. 99-131.
Klein, Richard I.; Caplan, Sandor; and Hansen, Ralph T., to RCA Corporation. Liquid crystal display device. 3,689,131, 9-5-72, Cl. 350-160.000.
Klein, Richard Ira: *See—*
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Klein, Richard Ira; and Caplan, Sandor, to RCA Corporation. Liquid crystal display device. 3,647,280, 3-7-72, Cl. 350-160.
Klein, Robert I., to Coulter Electronics, Inc. Malfunction detection circuit and method. 3,678,382, 7-18-72, Cl. 324-140.00r.
Klein, Robert I.; and Hogg, Walter R., to Coulter Electronics, Inc. Electronic particle detector of the coulter type having conductivity change independence circuitry. 3,706,030, 12-12-72, Cl. 324-71.0cp.
Klein, Robert J.: *See—*
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Klein, Robert T.; and Kreiselman, Robert L., to Coulter Electronics, Inc. Range expansion method and apparatus for multichannel pulse analysis. 3,696,399, 10-3-72, Cl. 340-347.0ad.
Klein, Rudolf: *See—*
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Klein, S., Department Stores, Inc.: *See—*
Spielvogel, Paul; Sagel, William R.; and Miller, Jay H., 3,688,916.
Klein, Samuel H. Filter system employing activated carbon porous material and diatomaceous earth. 3,705,651, 12-12-72, Cl. 210-266.000.
Klein, Schanzlin & Becker A.G.: *See—*
Born, Dieter; Stech, Peter; and Huebner, Werner, 3,701,535.

Klein, Solomon A. Building wall structure. 3,654,067, 4-4-72, Cl. 161-216.
Klein, Stanley Frank, to Raytheon Company. Memory look ahead connection arrangement for writing into an unoccupied address and prevention of reading out from an empty address. 3,699,535, 10-17-72, Cl. 340-172.500.
Klein, Stanley R. Disposable litter package having a scraping blade. 3,676,887, 7-18-72, Cl. 15-104.800.
Klein, Stuart K.: *See—*
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Klein, Thomas; and Faggin, Federico, to Fairchild Camera and Instrument Corporation. Doped semiconductor electrodes for MOS type devices. 3,673,471, 6-27-72, Cl. 317-235.00r.
Klein, Walter, to Leitz, Ernst, G.m.b.H., Firma. Pancratic ocular for microphotography. 3,638,996, 2-1-72, Cl. 350-184.
Klein, Walter, to Leitz, Ernst, G.m.b.H. Optical system for stereoscopic microscopes. 3,664,724, 5-23-72, Cl. 350-54.000.
Klein, Walter. Zoom lens objective for stereoscopic vision microscopes. 3,679,286, 7-25-72, Cl. 350-184.000.
Klein, William C.: *See—*
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Rickard, Robert K.; and Klein, William C., 3,690,765.
Klein, William C., to Eastman Kodak Company. Automatic control of color correction of photographic printers. 3,653,759, 4-4-72, Cl. 355-38.
Klein, William G. Antistatic fabric. 3,678,675, 7-25-72, Cl. 57-140.0by.
Kleinau, William W. Water craft launching and removal means. 3,665,533, 5-30-72, Cl. 9-1.00t.
Kleinberg, Leonard L., to United States of America, National Aeronautics and Space Administration. Monostable multivibrator. 3,633,048, 1-4-72, Cl. 307-273.
Kleinberg, Leonard L., to United States of America, National Aeronautics and Space Administration. Active tuned circuit. 3,693,105, 9-19-72, Cl. 330-12.000.
Kleineaschoff, Brunhilde: *See—*
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Kleineaschoff, Josef; and Kleineaschoff, Brunhilde, to Getex Consult AG. Apparatus for orienting bowling pins and separating the ball and pins. 3,704,888, 12-5-72, Cl. 273-43.00r.
Kleiner, Eduard, to Ciba-Geigy Corporation. Hindered phenolic esters of cyclic amino carboxylic acids. 3,681,358, 8-1-72, Cl. 260-268.000.
Kleiner, Eduard K., to Geigy Chemical Corporation. Addition product of an $\alpha\sim\beta$-unsaturated ester and a thiocarboxylic acid. 3,636,033, 1-18-72, Cl. 260-455.
Kleiner, Eduard K., to Ciba-Geigy Corporation. Antioxidants. 3,637,809, 1-25-72, Cl. 260-479.
Kleiner, Eduard K., to Ciba-Geigy Corporation. Hindered phenolic derivatives of phosphinodithioic acids or an O,O-diester of phosphorothiolothionic acid. 3,639,538, 2-1-72, Cl. 260-94.
Kleiner, Eduard K., to Ciba-Geigy Corporation. Carboxylic acid esters of di-lower alkyl-hydroquinones. 3,657,314, 4-18-72, Cl. 260-465.
Kleiner, Eduard Karl: *See—*
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Kleiner, Eduard Karl, to Ciba-Geigy Corporation. Perfluoroalkylsulfonamido-alkyl esters of fumaric acid and other ethylenically unsaturated polybasic acids and polymers thereof. 3,636,085, 1-18-72, Cl. 260-485.
Kleiner, Eduard Karl, to Ciba-Geigy Corporation. Benzoate monomers and polymers containing hindered phenolic groups as stabilizers. 3,645,970, 2-29-72, Cl. 260-47.
Kleiner, Eduard Karl, to Ciba-Geigy Corporation. Amides and imides of fluorinated alkylamines and maleic and other ethylenically unsaturated dibasic acids and polymers thereof. 3,658,843, 4-25-72, Cl. 260-326.5.
Kleiner, Eduard Karl; Knell, Martin; and Pacini, Pier Luigi, to Ciba-Geigy Corporation. Perfluoroalkylamido-alkyl and alkylthio esters of fumaric acid and other ethylenically unsaturated polybasic acids and polymers thereof. 3,658,857, 4-25-72, Cl. 260-4025.
Kleiner, Hans-Jerg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of tertiary phosphine oxides. 3,657,352, 4-18-72, Cl. 260-606.5.
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Kleiner, Willy. Device for the rinsing of body cavities. 3,669,101, 6-13-72, Cl. 128-66.
Kleinerman, Marcos. Infrared image converter. 3,639,765, 2-1-72, Cl. 250-83.3.
Kleinert, Werner L. Table or seating device. 3,664,275, 5-23-72, Cl. 108-150.
Kleinewefers, Joh., Sohne: *See—*
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Klemm, Ernst. Ski pole. 3,637,229, 1-25-72, Cl. 280-11.37.
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Klenke, Edward F., to Du Pont de Nemours, E. I., and Company. Nacreous pigment compositions. 3,634,119, 1-11-72, Cl. 106-291.
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Klessig, Ernst F., to Worthington Corporation (Worthington Compressor and Engine International Division). Hydraulic hammer with automatic stopping action. 3,664,435, 5-23-72, Cl. 173-17.000.
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Klett, George G.; and Akerstrom, Gary L., to Building Block Modules, Inc. Modular building construction and erection system utilizing selectively oriented modules. 3,703,058, 11-21-72, Cl. 52-79.000.
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Klimstra, Paul D., to Searle, G. D., & Co. 17-Oxygenated 7a-methyl 2,3-epithio-5a-androstanes. 3,682,898, 8-8-72, Cl. 260-239.500.
Klimstra, Paul D., to Searle, G. D., & Co. N-acyl-N-[N',N'-disubstituted amino)-alkyl]-1-adamantylmethylamines. 3,682,922, 8-8-72, Cl. 260-268.0pc.
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Klimstra, Paul D. 17-Oxygenated-1 alpha-methyl-2-methylen-5 alpha-androstan-3-ones and intermediates. 3,705,180, 12-5-72, Cl. 260-397.300.
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Kline, Richard H., to Goodyear Tire & Rubber Company, The. Age resistant polymeric compositions containing amide segmeric units. 3,658,769, 4-25-72, Cl. 260-78.
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Klopfer, Oskar E. H., to Ethyl Corporation. Dianilino aluminum chloride. 3,654,331, 4-4-72, Cl. 260-448.

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Kloss, Helmut, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Flying body having extensible fins. 3,684,214, 8-15-72, Cl. 244-3.270.

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Klostermark, Bernt. Transportable coaxial cable. 3,639,864, 2-1-72, Cl. 333-96.

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Kniff, Thomas J., to Kennametal Inc. Pick type mining bit support block therefor. 3,650,565, 3-21-72, Cl. 299-86.
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Knight, Erwin C., to McGraw-Edison Company. Powered tree pruning saw. 3,657,813, 4-25-72, Cl. 30-166.000.
Knight, Frank W.; and Van Allen, David, to Polaroid Corporation. Simplified diffusion-transfer film products. 3,679,417, 7-25-72, Cl. 96-78.000.
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Knight, James T.; and Lee, Parley L., to United States of America, Atomic Energy Commission. Removal of nitrite kontaminition from nickel plating solutions. 3,640,805, 2-8-72, Cl. 204-130.
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Knight, Leslie Hugh. Apparatus for grinding grain. 3,698,650, 10-17-72, Cl. 241-51.
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Knight, Michael Horace, to Imperial Chemical Industries Limited. Copolyamides from bis(aminophenyl)sulfone. 3,671,498, 6-20-72, Cl. 260-78.00r.
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Knight, Rodney W.; Martin, Melvin M.; and Martin, William R., to United States of America, Atomic Energy Commission. Gradient-type nuclear fuel plate. 3,697,374, 10-10-72, Cl. 176-69.000.
Knight, Sheldon; and McCarron, Kerwin Peter, to Quantic Industries, Inc. Optical apparatus using slitted marks for detecting rotary motion of object. 3,697,183, 10-10-72, Cl. 356-114.000.
Knight, Stephen,, to Bell Telephone Laboratories, Incorporated. Circuit protection apparatus utilizing optical transmission path. 3,648,110, 3-7-72, Cl. 317-16.
Knight, Tom H. Bunk for a truck cab sleeping berth. 3,698,022, 10-17-72, Cl. 5-118.000.
Knight, Warner P. Quick dump grass catcher for lawn mower. 3,668,846, 6-13-72, Cl. 56-205.000.
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Knight, William Roy; and Delamere, Richard William, to De Laval Company Limited. Heat-transfer fermenting and aging vessel. 3,688,940, 9-5-72, Cl. 220-13.000.
Knighton, James B.: *See—*
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Knirsch, Gunther; and Schmitt, Herrmann, to Brown, Boveri & Cie Aktiengesellschaft. Electrical distributing apparatus protective devices therefor. 3,691,489, 9-12-72, Cl. 335-201.000.
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Knit Tech Development Corporation: *See—*
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Knoepfler, Nestor B.; and Koenig, Paul A., to United States of America, Agriculture. Process for producing resin treated cotton batting products wherein the density of portions of the product can be varied to meet end use requirements. 3,645,814, 2-29-72, l. 156-62.8.
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Knoll, Ernst. Molded relief sheets. 3,634,951, 1-18-72, Cl. 35-41.
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Kobryner, Herman H., to Murray Manufacturing Corporation. Bus bar for electric connections. 3,668,591, 6-6-72, Cl. 339-198.

Kobs, Hans-Dietrich; Schmidt, Klaus; Zarfl, Theodor; and Kuhn, Gunter, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for controlling the production of alkali cyanide solutions. 3,653,820, 4-4-72, Cl. 23-79.
Kobusch, Earl W. Method of framing a picture and product thereof. 3,701,209, 10-31-72, Cl. 40-152.100.
Kobushiki Kaisha Toyoda Jido Shokki Seisakusho: *See*—
Hayashi, Yasutaka; and Arakawa, Hideo, 3,695,023.
Kobylak, Anthony M.: *See*—
Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfaender, Lawrence V., 3,654,680.
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Dunlap, Glenn H.; Kobylak, Anthony M.; and Miller, John E., 3,635,687.
Kobylak, Joe, to Goodrich, B. F., Company, The. Method for making breathable polyvinyl chloride film. 3,644,259, 2-22-72, Cl. 260-29.6.
Kobylinski, Tadeusz P.; and Swift, Harold E., to Gulf Research & Development Company. Disproportionation using a catalyst containing thallium. 3,644,559, 2-22-72, Cl. 260-683.
Koceich, Mark J.; and Chirash, William, to Colgate-Palmolive Company. Scouring cleanser. 3,702,826, 11-14-72, Cl. 252-99.000.
Koch, Bent. Method of dyeing or impregnating textiles and an apparatus for carrying the method into effect. 3,671,180, 6-20-72, Cl. 8-149.000.
Koch, Bradley R., to Melpar, Inc. Digital automatic speed control for railway vehicles. 3,655,962, 4-11-72, Cl. 246-182.
Koch, Carl, to Sinar AG Schaffhausen. Optical attachment for viewing a focusing screen of a camera. 3,701,582, 10-31-72, Cl. 350-145.000.
Koch, Charles Peter, to Monarch Western Equipment Ltd. Surface automobile conveyor. 3,677,190, 7-18-72, Cl. 104-172.
Koch, Christian, to Siemens Aktiengesellschaft. Method and device for absorbing gases or components of gas mixtures. 3,665,677, 5-30-72, Cl. 55-56.
Koch, Claude V.; and Storms, Donald G., to AMF Incorporated. Spring blades for contact arms and the method for making the same. 3,665,881, 5-30-72, Cl. 113-119.000.
Koch, Earl E.; and Shriver, Joe E., to Sperry Rand Corporation. Conditioner mounting for a windrower. 3,699,754, 10-24-72, Cl. 56-15.800.
Koch, Ernst; and Hans, Zug. Driven handrail system. 3,688,889, 9-5-72, Cl. 198-16.000.
Koch, Evaristo, to Schwizer, Kilian. Coin controlled locking device with coin holding means. 3,664,475, 5-23-72, Cl. 194-51.000.
Koch, Friedrich: *See*—
Ludwig, Herbert, 3,667,883.
Zeug, Robert; and Koch, Friedrich, 3,698,694.
Koch, George Peter, to Morris, Philip, Incorporated. Aerosol dispenser valve. 3,653,551, 4-4-72, Cl. 222-136.
Koch, George, Sons, Inc.: *See*—
Boost, Charles C.; Mitchell, William S.; and Horton, David M., 3,669,870.
Pate, Robert F.; Tredwell, Gilman; and Mitchell, William S., 3,661,095.
Koch, H., & Sons, Inc.: *See*—
Gaylord, John A.; and Murray, Norris N., 3,648,954.
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Koch, H., & Sons, Inc.; a division of Global Systems; a Gulf & Western Company: *See*—
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Koch, Hans: *See*—
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Koch, Hans; Oppermann, Willi; and Pfeffer, Heinz, to Demag Aktiengesellschaft. Apparatus for fusion welding of tubes. 3,694,617, 9-26-72, Cl. 219-121.0eb.
Koch, Hans Adalbert: *See*—
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Koch, Hans W., to Roller Bearing Company of America. Making corrugated elastic shims. 3,633,398, 1-11-72, Cl. 72-131.
Koch, Hans-Joachim: *See*—
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Koch, Harald: *See*—
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Koch, Heinz; and Vohringer, Eugen Martin, to Werner & Pfleiderer Firma. Continuously operating screw machine for the treatment of plastic masses. 3,687,423, 8-29-72, Cl. 259-109.000.
Koch, Helmut: *See*—
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Koch, Hermann. Measuring instrument with a bourdon spring. 3,688,586, 9-5-72, Cl. 73-418.000.
Koch Industries, Inc.: *See*—
Pierpont, William H., Jr., 3,661,670.
Koch, Jack N.: *See*—
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Koch, John H., to Atkins & Merrill, Inc. Modular aircraft pedestal. 3,675,880, 7-11-72, Cl. 244-83.00r.
Koch, Karl: *See*—
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Koch, Karl-Hellmut. Process for affecting taste and odor in leguminosae and in particular peanuts and soya beans. 3,660,111, 5-2-72, Cl. 99-98.
Koch, Kenneth F.: *See*—
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Koch, Louis, to Kohnstamm, H., & Co., Inc. Non-toxic dyes in polyglycerol fatty acid ester and glycol or glycerine and its mixture therein. 3,677,691, 7-18-72, Cl. 8-41.
Koch, Paul J.: *See*—
Prevorsek, Dusan C.; Li, Hsin L.; Koch, Paul J.; Oswald, Hendrikus J.; and Schmitt, George J., 3,690,980.
Koch, Peter, to United States of America, Agriculture. Process for steam straightening and kiln drying lumber. 3,680,219, 8-1-72, Cl. 34-13.400.
Koch, Richard C.: *See*—
Howes, Harold L., Jr.; and Koch, Richard C., 3,655,891.
Koch, Richard C. 2-(Substituted)2-thiazolines for the control of rice blast. 3,637,707, 1-25-72, Cl. 424-270.
Koch, Robert L., II; and Tredwell, Gilman, to Ashdee Corporation. Electrocoating apparatus. 3,640,814, 2-8-72, Cl. 204-300.
Koch, Robert L., II; and Muehlbauer, James H., to Ashdee Corporation. Electrocoating equipment accessory. 3,660,266, 5-2-72, Cl. 204-300.
Koch, Robert M.: *See*—
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Koch, Robert M.; Webb, Samuel L.; and Toby, Dennis E., to Addressograph-Multigraph Corporation. Liquid developing apparatus. 3,687,049, 8-29-72, Cl. 95-89.00r.
Koch, Robert W.: *See*—
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Koch, Robert W., to Gulf Research & Development Company. Cracking of solvent extracted gas oil without added hydrogen. 3,691,061, 9-12-72, Cl. 208-87.000.
Koch, Robert W., to Gulf Research & Development Company. Cracking of a gas oil with zeolite and monzeolite catalyst. 3,696,023, 10-3-72, Cl. 208-87.000.
Koch, Rockne E., to General Electric Company. Image gate. 3,684,354, 8-15-72, Cl. 350-289.000.
Koch, Roland G.: *See*—
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Koch, Roland G.; and King, John L., Jr., to Houdaille Industries, Inc. Quick change tool holders for automatic tool changers. 3,658,352, 4-25-72, Cl. 279-89.
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Koch, Theodor. Rifled gun barrel with the interior cross-sectional configuration defining a regular curvilinear polygon. 3,643,364, 2-22-72, Cl. 42-78.
Koch, Theodor. Switching arrangement for time multiplex systems having means for eliminating scanning errors due to carrier residual voltages at the scanning switches. 3,659,054, 4-25-72, Cl. 179-15.
Koch, Walter: *See*—
Koch, Walter; Lemm, Helmut; Voss, Eitel; and Hospital, Peter, 3,694,157.
Koch, Walter; Lemm, Helmut; Voss, Eitel; and Hospital, Peter, to Koch, Walter and said Voss, and said Hospital assor. to said Lemm, Helmut. Method of and apparatus for forming gaseous analysis products from solid samples. 3,694,157, 9-26-72, Cl. 23-230.0pc
Koch, Werner G.; and McCurley, Jack, to LTV Electrosystems, Inc. Force summing multiplex actuator. 3,640,183, 2-8-72, Cl. 91-1.
Koch, Werner G.; Marchell, Robert H.; and Redmond, William G., to LTV Electrosystems, Inc. Motor operated servo-pump. 3,646,754, 3-7-72, Cl. 60-52.
Koch, Werner G., to LTV Aerospace Corporation. Apparatus for damping resonant vibration. 3,648,570, 3-14-72, Cl. 92-60.
Koch, Wilhelm, to Demag Aktiengesellschaft. Device for supporting and cooling continuously cast strands of metal. 3,651,857, 3-28-72, Cl. 164-283.
Koch, Wolf H., to Ford Motor Company. Controller for variable reluctance motor. 3,697,840, 10-10-72, Cl. 318-138.000.
Koch-Bossard, Ernst; and Pietch-Faber, Max August. Light-point-projector. 3,656,845, 4-18-72, Cl. 353-42.
Koch-Light Laboratories Limited: *See*—
Epton, Roger, 3,666,733.
Kochalski, Horst; Rudszinat, Willy; David, Harry; Erdmann, Otto; Rode, Ludwig; and Suck, Hans, to Hauni-Werke Korber & Co.

KG. Method and apparatus for manipulating rod-shaped articles. 3,662,880, 516-72, Cl. 209-73.
Kochanny, Gerald L., Jr., to Dow Chemical Company, The. Method of preparing mercaptans using high energy radiation. 3,682,804, 8-8-72, Cl. 204-162.0he.
Kocher, Erich J., to Vilter Manufacturing Corporation. Rotary screw engine having adjustable internal feed and adjustable outlet control. 3,656,876, 4-18-72, Cl. 418-185.
Kocher, Robert; Moore, Franklin; and Samelson, Harold, to General Telephone & Electronics Laboratories, Incorporated. Cell for use in a circulating liquid laser. 3,688,216, 8-29-72, Cl. 331-94.500.
Kocher, Robert C.; and Samelson, Harold, to GTE Laboratories, Incorporated. Cell for use in a circulating liquid laser. 3,663,891, 5-16-72, Cl. 331-94.5.
Kocher, Robert C.; Moore, Franklin K.; Samelson, Harold; and Watson, William R., to GTE Laboratories Incorporated. Transverse flow laser cell. 3,678,410, 7-18-72, Cl. 331-94.500.
Koches, Andrew L.; and Christiansen, Francois T. W., to Ultra Tech Corporation. Power press. 3,648,569, 3-14-72, Cl. 91-13.8.
Koches, Charles F., to Westvaco Corporation. Transport reactor with a venturi/tube connection to a combustion chamber for producing activated carbon. 3,647,716, 3-7-72, Cl. 252-445.
Kochetkov, Nikolai Konstantinovich: *See—*
Barkov, Nikolai Konstantinovich; Kucherova, Natalya Fedorovna; Kochetkov, Nikolai Konstantinovich; Zhukova, Izida Grigorievna; and Sharkova, Nina Mikhailovna, 3,657,254.
Kochevar, John W., to Continental Can Company, Inc. Carton having novel interlocked corner constructions. 3,696,989, 10-10-72, Cl. 229-34.000.
Kochevar, Rudolph J. Sinker. 3,638,347, 2-1-72, Cl. 43-42.39.
Kochi, Kiyoshi, to Iwatsu Electric Co., Ltd. Count display system. 3,705,296, 12-5-72, Cl. 235-92.0ea.
Kochis, John L.: *See—*
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Kochiya, Masahiro: *See—*
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Kocian, James A.: *See—*
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Kock, Bruce A. Watch escapement mechanism. 3,685,282, 8-22-72, Cl. 58-118.000.
Kock, Erhard, to Champion Spark Plug Company. Multiple color paint spray system. 3,674,205, 7-4-72, Cl. 239-1.000.
Kock, Helmut. Hydrofoil system. 3,651,775, 3-28-72, Cl. 114-66.5.
Kock, Klaus, to Bosch, Robert, G.m.b.H. Process for the preparation of gas permeable hydrophobic foils for electrochemical cells. 3,673,292, 6-27-72, Cl. 264-49.000.
Kockott, Dieter, to Original Hanau Quarzlampen GmbH. Apparatus for accelerated testing of the light and weather resisting ability of different materials. 3,664,188, 5-23-72, Cl. 73-150.000.
Kockott, Dieter, to Original Hanau Quarzlamken GmbH. Ultraviolet testing apparatus with selective mirrors for removing infrared radiation. 3,686,940, 8-29-72, Cl. 73-150.000.
Kocks, Friedrich: *See—*
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Kocks, Friedrich. Process for casting metal with vertical pouring and horizontal cooling. 3,683,999, 8-15-72, Cl. 164-98.000.
Kocks, Friedrich. Method for manufacture of seamless tube. 3,695,076, 10-3-72, Cl. 72-97.000.
Kockum Soderhamn AB: *See—*
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Koda, Arthur J.; and Riedel, Charles E., to Clare, C. P., & Company. Piezoelectrically actuated lever switch. 3,688,135, 8-29-72, Cl. 310-8.500.
Koda, Ken'Ichi; Kikuchi, Shoji; Wada, Tsuneo; Kuwabara, Yoshimi; Horikoshi, Akira; Tanimura, Kensaku; and Sugita, Sadao, to Konishiroku Photo Industry Co., Ltd. N-Ylide compounds as antistatic agents in photography. 3,704,128, 11-28-72, Cl. 96-50.000.
Koda, Kiyoyasu: *See—*
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Koda, Nobuo J., to Hughes Aircraft Company. Fast destructive-read scan converter tube. 3,689,789, 9-5-72, Cl. 313-68.00r.
Kodaira, Kazuo: *See—*
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Kodaira, Kiju; and Yoshimura, Hirofumi, to Yashica Company, Limited. Photographic cameras. 3,690,232, 9-12-72, Cl. 95-10.0ce.
Kodaira, Yasuo, to Nihon Kaiheiki Kogyo Kabushiki Kaisha. Switch flourish plate. 3,699,236, 10-17-72, Cl. 174-66.000.
Kodalle, Rudi, to Rohm-Gesellschaft m.b.H., Werkzeug- und Maschinenfabrik. Omnidirectional pressurized hydraulic and pneumatic fluid actuated piston type power means for operating mechanisms, such as a chuck, by reciprocating linear movements, omnidirectioally, within any plane. 3,641,875, 2-15-72, Cl. 91-1.
Kodama, Hisashi; Sekigawa, Tsuneo; Hatat, Kazumi; and Nakaya, Akimichi, to Nippon Kokan Kabushiki Kaisha. Partitions in docks. 3,702,538, 11-14-72, Cl. 61-64.000.
Kodama, Jiro K.; Haynes, George R.; and Albert, James R., to Shell Oil Company. Methods of inducing a cardiovascular hypotensive response. 3,658,993, 4-25-72, Cl. 424-326.
Kodama, Makoto; and Yamamoto, Harunori, to Sony Corporation. Recording and reproducing apparatus using magnetic tape cassette. 3,638,953, 2-1-72, Cl. 274-4.
Kodama, Reijiro: *See—*
Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Kodama, Reijiro, 3,691,014.
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Kodama, Reijiro; Nakasuji, Yugoro; and Imanishi, Kosaku, to Takeda Chemical Industries, Ltd. Disease control composition for silkworms. 3,660,571, 5-2-72, Cl. 424-181.
Kodama, Takashi: *See—*
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Kodama, Yutaka; Takai, Akira; and Inagaki, Tatsumi, to Toyama Chemical Co., Ltd. Method for promoting the growth of livestock. 3,704,335, 11-28-72, Cl. 424-249.000.
Kodekey Electronics Inc.: *See—*
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Kodera, Yoichi; Kitamura, Tomosaburo; and Sawaguchi, Etsuro, to Sony Corporation. Method of making polypropylene electrets. 3,632,443, 1-4-72, Cl. 117-227.
Kodera, Yoshihide; Kato, Jun; Shimada, Kazuo; Suzuki, Morio; Ohse, Hidetaka; Ohshima, Satoshi; and Kuriki, Yasunori, to Industrial Science & Technology, Agency of. Method and apparatus for withdrawing solid catalyst particles. 3,654,143, 4-4-72, Cl. 208-14.
Kodis, Ralph D.: *See—*
Haroules, George G.; Brown, Wilfred E., III; Ewen, Harold I.; Lilley, Arthur E.; and Kodis, Ralph D., 3,665,467.
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Koe, Billie Kenneth. p-Chlorobenzyl compounds and their serotonin lowering ability. 3,686,414, 8-22-72, Cl. 424-319.000.
Koebel, Thomas P., to Zegers, Incorporated. Clip for combination weatherstrip and sash balance units. 3,633,317, 1-11-72, Cl. 49-430.
Koeber, Henry J.: *See—*
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Koeber, Henry J., to Bell & Howell Company. Pendulous range finding device. 3,639,997, 2-8-72, Cl. 33-221.
Koeber, Henry J., to Bell & Howell Company. Two-speed take-up drive for camera. 3,680,813, 8-1-72, Cl. 242-205.000.
Koeber, Henry J., to Bell & Howell Company. Motion picture camera lap dissolve mechanism. 3,685,891, 8-22-72, Cl. 352-91.000.
Koeber, Henry J., to Bell & Howell Company. Power transmission mechanism. 3,698,253, 10-17-72, Cl. 74-129.000.
Koeber, Henry J., to Bell & Howell Company. Retracted film take-up driver. 3,700,317, 10-24-72, Cl. 352-91.000.

Koeble, Earl A.: *See—*
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Koebner, Adolf. Process for the separation of mixtures of fatty acids and rosin acids. 3,654,255, 4-4-72, Cl. 260-97.6.
Koechner, Walter, to Union Carbide Corporation. Method and means for compensating birefringence in laser systems. 3,662,281, 5-9-72, Cl. 331-94.5.
Koechner, Walter, to Union Carbide Corporation. Method and means for sealing laser rods. 3,665,337, 5-23-72, Cl. 331-94.500.
Koechner, Walter; Rice, Dennis Keith; and De Shazer, Larry Grant, to Union Carbide Corporation. Reduction of thermally induced stress birefringence in a synthetic crystal by control of growth direction. 3,702,974, 11-14-72, Cl. 331-94.50t.
Koeda, Takemi: *See—*
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Koegel, James H., to Robertshaw Controls Company. Adjustable acceleration responsive solid state control circuit. 3,681,661, 8-1-72, Cl. 317-22.000.
Koegler, Ansel A., to Stromberg-Carlson Corporation. Apparatus for inserting small articles in a matrix plate. 3,704,504, 12-5-72, Cl. 29-208.00r.
Koehl, Hans H., to C.E.M. Company, Inc. Fastening pins. 3,662,428, 5-16-72, Cl. 16-43.
Koehl, Harald: *See—*
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Koehl, William J., Jr., to Mobil Oil Corporation. Preparation of benzyl and allyl alkanoyloxy compounds. 3,649,675, 3-14-72, Cl. 260-488.
Koehler, Albert M., to Brown & Root, Inc. Offshore tower apparatus and method. 3,668,876, 6-13-72, Cl. 61-46.5.
Koehler, Albert M., to Brown & Root, Inc. Method and apparatus for transporting and launching an offshore tower. 3,693,361, 9-26-72, Cl. 61-46.500.
Koehler, Albert O. Expansible and collapsible multi-sided structures and blanks therefor. 3,661,319, 5-9-72, Cl. 229-37.
Koehler, Albert T.; Shideler, Paul J.; and Dohogne, Linus E., to Gerrard, A. J., & Company. Automatic cotton bale transfer apparatus. 3,673,950, 7-4-72, Cl. 100-7.000.
Koehler, Harold W.: *See—*
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Koehler, Heinrich P., to Rockwell Manufacturing Company. Power driven device. 3,650,336, 3-21-72, Cl. 173-110.
Koehler, Heinrich P., to Rockwell Manufacturing Company. Rotary hammer or the like. 3,685,594, 8-22-72, Cl. 173-48.000.
Koehler, Howard A., to Sperry Rand Corporation. Division utilizing multiples of the divisor stored in an addressable memory. 3,684,879, 8-15-72, Cl. 235-156.000.
Koehler, Joseph E.: *See—*
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Koehler, Michael: *See—*
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Koehler, Paul J.; and Aldo, Bruce D. Method and apparatus for automatically splicing film. 3,684,623, 8-15-72, Cl. 156-504.000.
Koehler, Rudolph. Electrical lamp socket. 3,678,443, 7-18-72, Cl. 339-119.001.
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Koehler, Walter, to IMA Klessmann. Surface cutting machine tool. 3,636,815, 1-25-72, Cl. 90-3.
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Koelmans, Hein, to U.S. Philips Corporation. Image display device comprising an auxiliary light source. 3,638,027, 1-25-72, Cl. 250-213.
Koelsch, Lester M., to Ro-Band Corporation. Device for selecting and removing stacks of flat items from a magazine. 3,638,828, 2-1-72, Cl. 221-176.
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Koenecke, William J., to Metal Improvement Company, Inc. Adjustable cyclone separator. 3,667,196, 6-6-72, Cl. 55-312.000.
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Koenig, Edward W., to International Telephone and Telegraph Corporation. Multispectral imaging system. 3,684,824, 8-15-72, Cl. 178-5.4st.
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Koenig, Karl-Heinz; Steinbrunn, Gustav; Windel, Hermann; and Fischer, Adolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Biscarbamates. 3,671,571, 6-20-72, Cl. 260-471.00c.
Koenig, Karl-Heinz; Maschke, Artur; and Fischer, Adolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Diamino-s-triazines. 3,679,678, 7-25-72, Cl. 260-249.800.
Koenig, Karl-Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Trisubstituted hydrazines. 3,683,026, 8-8-72, Cl. 260-583.00b.
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Koerner, Ernest L., Jr.; and Lucid, Michael F., to Kerr-McGee Corporation. Vanadium recovery from wet process phosphoric acid using neutral organo-phosphorus extractants. 3,700,415, 10-24-72, Cl. 23-312.0me.
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Koerner, Gotz; and Rossmy, Gerd, to Goldschmidt, Th., A.-G. Process for breaking petroleum emulsions. 3,677,962, 7-18-72, Cl. 252-345.000.
Koerner, Gotz; and Rossmy, Gerd. Process for preparing chloropolysiloxanes. 3,687,642, 8-29-72, Cl. 423-342.000.
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Koerner, Harry E.; and Horsey, William C., to CGR Medical Corporation. Pneumatic power assist apparatus for spot film device. 3,707,630, 12-26-72, Cl. 250-58.000.
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Kogelnik, Herwig Werner, to Bell Telephone Laboratories, Incorporated. Light wave coupling into thin film light guides with Bragg type gratings. 3,674,336, 7-4-72, Cl. 350-96.0wg.
Kogelnik, Herwig Werner; and Shank, Charles Vernon, to Bell Telephone Laboratories, Incorporated. Reflective-type narrow bank filter. 3,675,990, 7-11-72, Cl. 350-311.000.
Koguma, Kazumasa; Takeuchi, Hiroshi; and Kanamaru, Yuichi, to Sony Corporation. Magnetic tape cartridge containing engaging means for rotary head. 3,639,697, 2-1-72, Cl. 179-100.22.
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Kohayakawa, Takashi; Yamamoto, Shinichi; and Morimoto, Michio, to Daihatsu Kogyo Co., Ltd. Rotary after burner for internal combustion engines. 3,698,873, 10-17-72, Cl. 23-277.00c.
Kohda, Akihide; Kohno, Shigeharu; Takahashi, Tohru; and Sugimoto, Hachiro, to Eisai Co., Ltd. N-Lower alkyl-substituted N'-[β-(2',5'-dephenylpyrrolyl-1')] ethylhomopiperazines. 3,704,244, 11-28-72, Cl. 260-326.900.
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Kohl, Willibald F.; and Ellinger, Rudolph H., to Stauffer Chemical Company. Method of preserving food materials, food product resulting therefrom, and preservative composition. 3,681,091, 8-1-72, Cl. 99-150.000.
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Kohler, Gisbert, to SKF Kugellagerfabriken GmbH mit beschrankter Haftung. Mounting for spindle bearing housings. 3,684,334, 8-15-72, Cl. 308-152.000.
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Kohler, Willem A.; and Flood, Joseph A., to Fairchild Camera and Instrument Corporation. Reactor for the formation of material on a substrate. 3,658,032, 4-25-72, Cl. 118-48.000.
Kohler, William H., to Abex Corporation. Tachometer amplifier. 3,640,586, 2-8-72, Cl. 303-21.
Kohlhaas, Rudolf: *See—*
Baechle, Hans Tuisko; and Kohlhaas, Rudolf, 3,656,899.
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Fischer, Adolf; Becke, Friedrich; and Kohlhaupt, Reinhold, 3,634,452.
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Kohlman, Curtis J.: *See—*
Riebs, Richard E.; and Kohlman, Curtis J., 3,668,509.
Kohlmuller, Hans; and Kuhl, Dieter, to Siemens Aktiengesellschaft. Fuel cell battery for reacting gaseous reactants in fuel cells operated with liquid electrolyte. 3,679,485, 7-25-72, Cl. 136-86.00r.
Kohlmuller, Hans; and Kuhl, Dieter, to Siemens Aktiengesellschaft. Fuel cell battery for reacting a reactant, such as hydrazine especially, dissolved in electrolyte. 3,681,145, 8-1-72, Cl. 136-86.00r.
Kohls, James L. Litter collector and receptacle. 3,692,072, 9-19-72, Cl. 141-391.000.
Kohn, Edward M.: *See—*
Jolly, Samuel E.; Kohn, Edward M.; and Tench, John D., 3,681,117.
Kohn, Edward M.; and Recchuite, Alexander D., to Sun Oil Company. Method of increasing wax absorption rates of porous paper products. 3,632,426, 1-4-72, Cl. 117-158.
Kohn, Edward M.; and Recchuite, Alexander D., to Sun Oil Company. Method of decreasing wax impregnation time by porous paper products. 3,653,958, 4-4-72, Cl. 117-158.
Kohn, Gustave: *See—*
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Kohn, Gustave K.: *See—*
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Brown, Melancthon S.; and Kohn, Gustave K., 3,663,594.
Kohn, Gustave K., to Chevron Research Company. Method for isomerizing phenylphenols. 3,655,778, 4-11-72, Cl. 260-619.
Kohn, Gustave K.; and Stevick, Lawrence E., to Chevron Research Company. Isomerization process. 3,655,780, 4-11-72, Cl. 260-624.
Kohn, Gustave K., to Chevron Research Company. Phenyl N-methyl carbamates. 3,679,734, 7-25-72, Cl. 260-479.00c.
Kohn, Gustave K.; and McMurtry, Randolph J., to Chevron Research Company. Boroxarophenanthrene as fungicides. 3,686,398, 8-22-72, Cl. 424-185.000.
Kohn, Gustave K., to Chevron Research Company. Bis (polyhalohydrocarbyl) trisulfides as algicides. 3,694,184, 9-26-72, Cl. 71-67.000.
Kohn, Gustave K., to Chevron Research Company. N-Substituted acylamidosulfenyl chlorides and their method of preparation. 3,699,122, 10-17-72, Cl. 260-326.50s.
Kohn, Gustave K., to Chevron Research Company. N-Substituted carbamoyl chlorides and method of preparation. 3,699,163, 10-17-72, Cl. 260-544.00c.
Kohn, Gustave K., to Chevron Research Company. Bis-(tetrahaloethyl) trisulfides as seed disinfectants. 3,702,366, 11-7-72, Cl. 424-336.000.
Kohn, Harold: *See—*
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Kohno, Isao: *See—*
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Kohno, Yukio: *See—*
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Kohnstamm, H., & Co., Inc.: *See—*
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Kohring, Walter. Mooring structure. 3,675,609, 7-11-72, Cl. 114-230.000.
Kohring, Walter. Mooring structure in combination with a fender. 3,675,610, 7-11-72, Cl. 114-230.000.
Kohrn, Robert C.: *See—*
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Kohsaka, Masanobu: *See—*
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Goshima, Takeshi; and Kohtani, Yutaka, 3,704,400.
Kohtani, Yutaka, to Canon Kabushiki Kaisha. Magnetic teaching machine with selectively operable repetitive and non-repetitive learning modes. 3,703,041, 11-21-72, Cl. 35-35.00c.
Kohut, Jaroslaw: *See—*
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Koide, Minoru. Concealed nails. 3,693,496, 9-26-72, Cl. 85-14.000.
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Koide, Tsuyoshi, to Toyoda Koki Kabushiki Kaisha. Automatic end surface positioning apparatus for use with digitally controlled machine tools. 3,663,189, 5-16-72, Cl. 51-165.800.
Koide, Tsuyoshi; and Othu, Ikuo, to Toyoda Koki Kabushiki Kaisha; t/a Toyoda Machine Works. Apparatus for preventing circumferential overspeeding of grinding wheel. 3,673,741, 7-4-72, Cl. 51-134.50r.
Koike, Hiroshi: *See—*
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Koike, Kazushige: *See—*
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Koike, Kazushige, to Mitsubishi Electric Corporation. Apparatus for electrolytically etching a workpiece. 3,684,682, 8-15-72, Cl. 204-224.000.
Koike, Tsunehiko: *See—*
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Koishikawa, Yoshiyuki. Tambourine. 3,635,120, 1-18-72, Cl. 84-418.
Koishikawa, Yoshiyuki. Drum head. 3,647,931, 3-7-72, Cl. 84-411.
Koishikawa, Yoshiyuki. Tambourine. 3,657,465, 4-18-72, Cl. 84-418.
Koivunen, Erkki, to General Motors Corporation. Method of assembling a transmission. 3,653,118, 4-4-72, Cl. 29-434.
Koivunen, Erkki A., to General Motors Corporation. Engine and transmission fluid supply system. 3,642,097, 2-15-72, Cl. 184-6.
Koivunen, Erkki A., to General Motors Corporation. Variable displacement fluid pump motor. 3,645,172, 2-29-72, Cl. 91-497.
Koivunen, Erkki A., to General Motors Corporation. Vehicle power train. 3,659,480, 5-2-72, Cl. 74-695.
Koivunen, Erkki A., to General Motors Corporation. Vehicular transmission pump drives. 3,665,707, 5-30-72, Cl. 60-54.000.
Koivunen, Erkki A., to General Motors Corporation. Fail safe brake anti-lock modulator. 3,672,731, 6-27-72, Cl. 303-21.
Koivunen, Erkki A., to General Motors Corporation. Brake anti-lock modulator with bypass valve. 3,684,328, 8-15-72, Cl. 303-21.0af.
Koivunen, Erkki A., to General Motors Corporation. Fully compensated brake anti-lock sensor. 3,685,619, 8-22-72, Cl. 188-181.00a.
Koivunen, Erkki A., to General Motors Corporation. Brake and cooling system. 3,696,893, 10-10-72, Cl. 188-264.00e.
Koivusal, Mauno. Device for closing, holding open and holding closed a door or equivalent, in particular one for doors with concealed hinges. 3,707,014, 12-26-72, Cl. 16-52.000.
Koiwa, Yoichi: *See—*
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Uchida, Teiji; Furukawa, Motoaki; Yoshikawa, Shogo; Kitano, Ichiro; and Koizumi, Ken, 3,633,992.
Koizumi, Masami, to Kabushiki Kaisha Ricoh. Response detecting device. 3,634,952, 1-18-72, Cl. 35-48.
Koizumi, Takao; and Kajita, Takao, to Teijin Limited. Apparatus for setting stitches of tubular knitted fabrics for deknitting. 3,646,646, 3-7-72, Cl. 26-69.
Koizumi, Yutaka: *See—*
Suzuki, Shigeru; Sugita, Keiji; Koizumi, Yutaka; and Kanno, Tadaaki, 3,651,727.
Koizumi, Yutaka, to Kabushiki Kaisha Ricoh. Slit exposure device for a reproduction apparatus. 3,649,126, 3-14-72, Cl. 355-65.
Koizumi, Yutaka, to Ricoh Co., Ltd. Electrophotographic composing device. 3,693,514, 9-26-72, Cl. 95-1.100.
Kojigian, John, Jr. Exercising belt. 3,659,843, 5-2-72, Cl. 272-57.00r.
Kojima, Hideo: *See—*
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Kojima, Hiroo: *See—*
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Kojima, Hiroomi; Nomura, Sadao; and Kumada, Akio, to Hitachi, Ltd. Digital light deflector. 3,667,828, 6-6-72, Cl. 350-150.
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Kojima, Kiyoshi; and Abe, Toshiro, to Matsushita Denko Kabushiki Kaisha. Photosensitive solid oscillator. 3,665,340, 5-23-72, Cl. 331-107.
Kojima, Masayoshi, to Sanseiyusoki Co., Ltd. Rotary elevator observation tower. 3,633,904, 1-11-72, Cl. 272-7.
Kojima, Masayoshi, to Sanseiyusoki Co., Ltd. Rotary driving amusement equipment. 3,635,185, 1-18-72, Cl. 104-56.
Kojima, Michio: *See—*
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Kojima, Mikiharu; and Iwata, Tetuo, to Tokyo Shibaura Electric Co., Ltd. Driving mechanisms for moving stairways. 3,696,909, 10-10-72, Cl. 198-16.000.
Kojima, Minoru: *See—*
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Kojima, Noriatsu. Drain trap for horizontal drain pipe. 3,651,826, 3-28-72, Cl. 137-247.35.
Kojima, Noriatsu. Coupling construction and improved packing ring therefor. 3,659,883, 5-2-72, Cl. 285-348.
Kojima, Sakusaburo: *See—*
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Kojima, Tadashi, to Konishiroku Photo Industry Co., Ltd. Image focusing lens system for copying machines. 3,701,587, 10-31-72, Cl. 350-202.000.
Kojima, Takakazu: *See—*
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Kokkinis, Nikolaus, to Lindauer Dornier Gesellschaft m.b.H. Gripper head for use in a shuttleless loom. 3,662,785, 5-16-72, Cl. 139-122.
Kokkinis, Nikolaus, to Lindauer Dornier Gesellschaft m.b.H. Weft thread inserting mechanism for looms. 3,665,975, 5-30-72, Cl. 139-127.
Kokorudz, Michael, to Wyandotte Chemicals Corporation. Liquid chlorinated polyaryl-polyamine compositions. 3,641,151, 2-8-72, Cl. 260-570.
Kokosa, Richard A., to General Electric Company. Controlled rectifier and triac with laterally off-set gate and auxiliary segments for accelerated turn on. 3,681,667, 8-1-72, Cl. 317-235.00r.
Kokoszka, Stanley L.: *See—*
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Kokotailo, George T.; and Lawton, Stephen L., to Mobil Oil Corporation. Method of decreasing the potassium content of potassium-containing zeolites. 3,640,680, 2-8-72, Cl. 23-111.
Kokubo, Ryo; Yokomichi, Koji; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko, to Nissan Chemical Industries, Ltd. Process for recovering purified melamine. 3,637,686, 1-25-72, Cl. 260-249.7.
Kokubo, Ryo; Takakuwa, Yasuo; Shiroishi, Akihiro; and Kihara, Mitsuji, to Nissan Kagaku Kogyo Kabushiki Kaisha. Process for recovering by-product gases at high pressure in melamine production. 3,700,672, 10-24-72, Cl. 260-249.70p.
Kokubu, Kaoru; and Hirai, Osami, to Nippon Seisen Co., Ltd. Method of simultaneously drawing a number of wire members. 3,643,304, 2-22-72, Cl. 29-423.
Kokubu, Tatsuo: *See—*
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Kokx, Darrel D., to Procter & Gamble Company, The. Arcuately shaped sanitary napkin and method of formation. 3,677,249, 7-18-72, Cl. 128-290.000.
Kokx, Darrel D.; and Moore, Robert S., to Procter & Gamble Company, The. Self-spreading catamenial tampon. 3,706,311, 12-19-72, Cl. 128-285.000.
Kolaian, Jack H.: *See—*
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Kablaoui, Mahmoud S.; and Kolaian, Jack H., 3,657,122.
Kolaian, Jack H., to Texaco Inc. Drilling fluid. 3,637,492, 1-25-72, Cl. 252-8.5.
Kolaian, Jack H., to Texaco Inc. Drilling fluid. 3,637,493, 1-25-72, Cl. 252-8.5.
Kolaian, Jack H., to Texaco Inc. Drilling fluid. 3,640,825, 2-8-72, Cl. 252-8.5.
Kolaian, Jack H., to Texaco Inc. Drilling fluid. 3,682,820, 8-8-72, Cl. 252-8.50c.
Kolaian, Jack H., to Texaco Inc. Drilling fluid. 3,682,821, 8-8-72, Cl. 252-8.50c.
Kolaian, Jack H. Heat treatment of oxidized starch. 3,691,155, 9-12-72, Cl. 260-233.30r.
Kolakowski, Alfred W.: *See—*
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Kolankowsky, Eugene; and McMahon, Robert F., to International Business Machines Corporation. Data processing system with a storage having a plurality of simultaneously accessible locations. 3,638,199, 1-25-72, Cl. 340-172.5.
Kolankowsky, Eugene, to International Business Machines Corporation. Semi-conductive cell for a storage having a plurality of simultaneously accessible locations. 3,638,204, 1-25-72, Cl. 340-173.
Kolankowsky, Eugene; McMahon, Robert F.; and Perlman, David J., to International Business Machines Corporation. Storage having a plurality of simultaneously accessible locations. 3,643,236, 2-15-72, Cl. 340-173.
Kolar, Charles Wesley, Jr., to Ralston Purina Company. Process for the manufacture of caramels. 3,677,771, 7-18-72, Cl. 99-134.00r.
Kolar Laboratories, Inc., mesne: *See—*
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Kolarik, Robert V., to Goodyear Aerospace Corporation. Composite armor. 3,671,374, 6-20-72, Cl. 161-93.000.
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Kolatorowicz, Edwin E.; and Volkmann, Werner K., to General Electric Company. Power conversion control system. 3,671,836, 6-20-72, Cl. 318-345.000.
Kolatorowicz, Edwin E., to General Electric Company. Brushless DC adjustable speed drive with static regenerative DC motor control. 3,678,358, 7-18-72, Cl. 318-254.000.
Kolb, Carl A., to Pfizer Inc. Esterification process for the preparation of diethylaminoethyl p-nitrobenzoate. 3,681,430, 8-1-72, Cl. 260-472.000.
Kolb, Dieter, to Lestra AG. Pressure measuring device. 3,677,090, 7-18-72, Cl. 73-420.000.
Kolb, Edwin R.: *See—*
Gallagher, William, Jr.; Kolb, Edwin R.; and Murray, James E., 3,651,723.
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Kolly, Andre, to Kabushiki Kaisha Ricoh. Transfer and reset device for calculating machines. 3,681,576, 8-1-72, Cl. 235-133.00r.
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Kolm, Henry H., to Massachusetts Institute of Technology. Process for magnetic separation. 3,676,337, 7-11-72, Cl. 210-42.000.
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Kondo, Iwao. Machine for processing a piece of work by electric current. 3,642,601, 2-15-72, Cl. 204-206.
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Kondo, Kenshi. Automatic soldering apparatus. 3,680,762, 8-1-72, Cl. 228-37.000.
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Kondo, Toshio; and Tamura, Hifumi, to Hitachi, Ltd. Ion source device having control means for reducing filament current below its starting value. 3,699,381, 10-17-72, Cl. 315-74.000.
Kondo, Toshio, to Aisin Seiki Kabushiki Kaisha. Spot disc brakes for vehicles. 3,707,207, 12-26-72, Cl. 188-71.500.
Kondo, Yasuo, to Nippondenso Kabushiki Kaisha. Honeycomb rotor-sealing device and method of manufacture. 3,649,033, 3-14-72, Cl. 277-96.
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Kondur, Nicholas, Jr., to Burroughs Corporation. Keyboard mechanism and associated code converting circuitry. 3,651,917, 3-28-72, Cl. 197-98.
Kondur, Nicholas, Jr., to Burroughs Corporation. Decimal to binary encoder for generating decimal point position and round-off information in a calculator. 3,685,041, 8-15-72, Cl. 340-347.00p.
Kondur, Nicholas, Jr.; and Mack, Ronald H., to Burroughs Corporation. Coaxial type drums with apertures for changeable type segments. 3,693,545, 9-26-72, Cl. 101-375.000.
Konecky, Milton S., to Esso Research and Engineering Company. Decahydroacenaphthene as a high energy fuel. 3,703,361, 11-21-72, Cl. 44-80.000.
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Konecny, Jan; Haas, Jan T.; and Groenewald, Hans E., to Hamburger Flugzeugbau GmbH. Fan-type aircraft and hot-gas structure therefor. 3,674,224, 7-4-72, Cl. 244-12.00b.
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Konewko, Joseph E.; and Occhipinti, Carl, to Bunker-Ramo Corporation, The. Controlled insertion force receptacle for flat circuit bearing elements. 3,697,929, 10-10-72, Cl. 339-75.0mp.
Kong, Ning, to International Business Machines Corporation. Noise muffler for magnetic tape vacuum columns. 3,688,866, 9-5-72, Cl. 181-33.00k.
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Konig, Dieter. Process and apparatus for material excavation by beam energy. 3,649,806, 3-14-72, Cl. 219-121.
Konig, Gottfried; and Schornstadt, Peter, to VEB Pentacon Dresden Kamera- und Kinowerke. Method and apparatus of contrast-dependent sharp focussing. 3,691,922, 9-19-72, Cl. 95-44.00r.
Konig, Gustav. Connection for prefabricated sheets. 3,632,149, 1-4-72, Cl. 287-189.36.
Konig, Gustav. Structural assembly. 3,675,954, 7-11-72, Cl. 287-20.92w.
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Konishi, Kozo; Suzui, Masaaki; Otake, Michio; and Maeda, Tatuo, to Denki Kagaku Kogyo Kabushiki Kaisha. Paper coating pigment binder of alcoholized vinyl acetate-acrylamide copolymer. 3,699,112, 10-17-72, Cl. 260-29.4ua.
Konishi, Kunihiko: *See—*
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Konishi, Tatsuo; and Inaba, Masao, to Nippon Electric Company, Limited. Motor driving servo system comprising an integrator for the quantity relating to the error signal. 3,668,492, 6-6-72, Cl. 318-314.000.
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Kono, Harry W., to Tag-A-Tron, Inc., mesne. System for processing merchandizing tags having printed and magnetic information thereon. 3,651,503, 3-21-72, Cl. 340-174.1.
Kono, Hiroshi; and Shibazaki, Takeyoshi, to Mitsubishi Kimoku Kogyo Kabushiki Kaisha. Method of recovering copper from slag. 3,666,440, 5-30-72, Cl. 75-76.000.
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Kono, Reisaku; Yamamoto, Shigeo; and Yaoi, Hideaki, to Takeda Chemical Industries, Ltd. Highly attenuated rubella virus vaccine and production thereof. 3,655,872, 4-11-72, Cl. 424-89.
Kono, Tateomi, to Minolta Camera Kabushiki Kaisha. Cutter device of rolled copy paper for electronic copying machines. 3,673,905, 7-4-72, Cl. 83-175.000.
Kono, Toyoo; Wada, Sakae; Shiba, Motoharu; Matsuno, Takashi; Yamamoto, Akihiro; Ogawa, Haruki; Okazaki, Hiroshi; Suzuki, Shigeo; and Noto, Takao, to Chugai Seiyaku Kabushiki Kaisha. Dried stable anti-tumor preparations and process for preparing the same. 3632,746, 1-4-72, Cl. 424-93.
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Konoki, Keizo; and Ohsaki, Kozo, to Toyo Engineering Corporation and Mitsu Toatsu Chemicals, Inc. Process for removing carbon dioxide from a crude ammonia synthesis gas in a combined system for producing ammonia and urea. 3,684,442, 8-15-72, Cl. 23-198.000
Konopik, Alvin E., to Du Pont de Nemours, E. I., and Company. Method of powdering polyamides. 3,636,136, 1-18-72, Cl. 260-857.
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Konotsune, Shiro; Kachi, Atsuyuki; Tonoike, Takao; and Mori, Kinya, to Chisso Corporation. Method for producing poly α-olefins. 3,669,948, 6-13-72, Cl. 260-93.700.
Konovalov, Boris Leonidovich; Kildishev, Vasily Semenovich; Kaplunov, Vadim Borisovich; Tokarev, Vladimir Ivanovich; Spivak, Boris Volkovich; Byaly, Boris Ilich; Chigirinsky, Alexandr Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman,David Bentsionovich; Kariashevsky, Pavel Yakovlevich; and Cheremisov, Ivan Yakovlevich. Rotor for an electrical machine. 3,683,220, 8-8-72, Cl. 310-183.000.
Konovalov, Boris Leonidovich; Spivak, Boris Volkovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kildishev, Vasily Semenovich; and Stanislavsky, Lazar Yankelevich. Stator of an electric machine. 3,683,221, 8-8-72, Cl 310-258.000.
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Konstant, Anthony N., to Speedrack Inc. Storage rack and bracket therefor. 3,679,067, 7-25-72, Cl. 211-182.000.
Konstantin, William N., to Product Design Corporation. System and apparatus for automatically collecting, sorting and distributing articles from one or more locations to one or more locations. 3,656,636, 4-18-72, Cl. 214-8.5.
Kontranowski, Edward S., to Aerospace America, Inc. Vehicle wheeled driving mechanism. 3,675,730, 7-11-72, Cl. 180-55.000.
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Koo, James T., to Bell Telephone Laboratories, Incorporated. Content addressable memory cell. 3,633,182, 1-4-72, Cl. 340-173.
Koo, Ronald C.; and Shurgan, Joel, to Duro-Test Corporation. Mandrel for manufacturing filament coils and method for manufacturing filament coils. 3,662,789, 5-16-72, Cl. 140-71.5.
Koo, Tuh-Kai. Opto-electronic data entry means having plurality of control means to direct part of radiation in channel from radiation source to output channel. 3,648,050, 3-7-72, Cl. 250-208.
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Kooi, Else: *See—*
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Kooi, Else, to U.S. Philips Corporation, mesne. Semiconductor device having a semiconductor body of which a surface is at least locally covered with an oxide film and method of manufacturing a planar. 3,649,886, 3-14-72, Cl. 317-235.
Kooi, Else, to U.S. Philips Corporation, mesne. Semiconductor device comprising an insulated gate field effect transistor and method of manufacturing the same. 3,676,921, 7-18-72, Cl. 29-571.000.
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Koomey, Paul C.; De Vries, Douwe; and Gilmore, Samuel E. Connector. 3,701,549, 10-31-72, Cl. 285-24.000.
Koono, Takehiko: *See—*
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Koons, Albert Eugene. Support frame for use with an infant's car seat-bed assembly or as a shoulder supported pack carrier. 3,690,525, 9-12-72, Cl. 224-9.000.
Koons, Edwin R., to Mallory, P. R., & Co., Inc. Metal-to-glass-to-ceramic seal. 3,638,076, 1-25-72, Cl. 317-230.
Koons, Edwin Russell; Parker, Ralph G.; and Rupley, Jeffrey P., to Mallory, P. R., & Co., Inc. Solderable stainless steel. 3,634,048, 1-11-72, Cl. 29-196.6.
Koons, Edwin Russell; Parker, Ralph G., Jr.; and Rupley, Jeffery P., to Mallory, P. R., & Co., Inc. Solderable stainless steel. 3,698,880, 10-17-72, Cl. 29-195.000.
Koons, Harold O.; Pautz, Donald W.; and Gardner, Willis W., to Waukesha Bearings Corporation. Pressure balancing oil system for stern tubes of ships. 3,653,350, 4-4-72, Cl. 114-.5.
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Koontz, Donald Eldridge; Schoenberg, Leonard Norman; and Turner, Dennis Robert, to Bell Telephone Laboratories, Incorporated. Electrolytic production of multicolored prints. 3,654,095, 4-4-72, Cl. 204-2.
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Koot, Nicholas L., to Global Marine Inc. Core sampling apparatus. 3,701,387, 10-31-72, Cl. 175-6.000.
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Kopacki, Adam F.; and Remes, Nathaniel L., to Stauffer Chemical Company. Polymers stabilized with polymethylene sulfide. 3,645,963, 2-29-72, Cl. 260-45.7.
Kopacki, Adam Frank, to Stauffer Chemical Company. Processing aid for ABS resins. 3,657,382, 4-18-72, Cl. 260-836.
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Kopczynski, John F. Spindle mount for rotary and axially moving pool. 3,688,592, 9-5-72, Cl. 74-109.000.
Kopczynski, John F. Plug assembling machine. 3,707,026, 12-26-72, Cl. 29-203.00d.
Kopec, Conrad J.: *See—*
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Kopec, John C.; Schmitt, Henry O., Jr.; and Tenney, Frederick H., to United States of America, Navy, mesne. Controlled variable time radio proximity fuze. 3,699,892, 10-24-72, Cl. 102-70.200.
Kopec, Thomas J.; and Morstadt, Richard A., to Automatic Electric Laboratories, Inc. Monitoring circuit for data sets, with signal muting. 3,665,107, 5-23-72, Cl. 179-4.
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Kopp, Adolph, Jr. Process for collecting and storing fresh water in earth. 3,640,074, 2-8-72, Cl. 61-1.
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Kopp, Georg, to Schweizerische Industrie-Gesellschaft. Device for groupwise packing of bags. 3,631,651, 1-4-72, Cl. 53-123.
Kopp, Hans W. Table with liquid outlet. 3,638,680, 2-1-72, Cl. 137-606.
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Kopp, Norman L., to Warner Electric Brake & Clutch Company. Linear positioning devices and the like. 3,656,358, 4-18-72, Cl. 74-89.15.
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Korekawa, Takashi, to Matsushita Electric Industrial Co., Ltd. Clothes drier. 3,645,010, 2-29-72, Cl. 34-133.

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Kornrumpf, William P.; and Cote, Paul T., to General Electric Company. Solid state circuits for guaranteed sequential flashing of photoflash lamp array. 3,668,468, 6-6-72, Cl. 315-323.
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Kornrumpf, William P.; and Harnden, John D., Jr., to General Electric Company. Induction cooking appliance with multicylinder power circuits. 3,697,717, 10-10-72, Cl. 2-10.490.
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Kornylak, Andrew T. Gravity conveyor with rollers having elastomeric tires of high hysteresis materials. 3,651,911, 3-28-72, Cl. 193-35.
Kornylak, Andrew T. Air flotation table conveyor. 3,651,956, 3-28-72, Cl. 214-1.
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Korpel, Adrianus, to Zenith Radio Corporation. Laser system for magnetic recording and playback. 3,651,262, 3-21-72, Cl. 178-6.6.
Korpel, Adrianus, to Zenith Radio Corporation. Optical scanning apparatus. 3,670,098, 6-13-72, Cl. 178-6.000.
Korpel, Adrianus, to Zenith Radio Corporation. Real-time acoustic imaging system. 3,706,965, 12-19-72, Cl. 340-5.0mp.
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Korpman, Ralf, to Johnson & Johnson. Pressure-sensitive adhesive tape. 3,676,202, 7-11-72, Cl. 117-122.00p.
Korsak, Kazimierz, to Piasecki Aircraft Corporation. Servo control for dual hydraulic systems. 3,640,185, 2-8-72, Cl. 91-411.
Korsgen, Hans Helmuth; and Weller, Wolfgang, to Coathylene S.A. Preparing finely divided copolyamides by precipitation from alcohol-water solution. 3,679,638, 7-25-72, Cl. 260-78.00s.
Korsgren, Theodore Y. Snap action construction. 3,632,921, 1-4-72, Cl. 200-76.
Korsgren, Theodore Y., to Robertshaw Controls Company. Snap acting electrical switch construction having reset means. 3,668,347, 6-6-72, Cl. 200-76.000.
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Korth, Jurgen, to Bukama GmbH. Nailing tool. 3,672,555, 6-27-72, Cl. 227-120.000.

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Korver, Johannes A. N-acetyl-N-(2,4,6-triiodo-3-aminophenyl)-β-amino-isobutyric acid. 3,661,975, 5-9-72, Cl. 260-471.

Korwin, Irving, to Wideband Jewelry Corporation. Ornamental device. 3,670,524, 6-20-72, Cl. 63-18.000.

Korwin, Irving. Adjustable frame for ornament. 3,678,705, 7-25-72, Cl. 63-18.000.

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Lecht, Charles P.; Harden, William O.; Lavell, Matthew J.; Kos, Stanley M.; and Pace, Robert A., 3,660,645.

Kosa, Ildiko: *See—*
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Kosaka, Genzo: *See—*
Gomada, Nobuyasu; and Kosaka, Genzo, 3,647,577.
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Kosaka, Kenzo: *See—*
Ozawa, Goro; Kosaka, Kenzo; Adachi, Kiyoshi; Okaya, Tsutomu; and Ariki, Takeo, 3,656,214.

Kosaka, Kenzo; Tsunewaki, Masami; Tanaka, Hideo; and Aoki, Akira, to Mitsubishi Rayon Co., Ltd. Method for manufacturing false twisted threads from thermoplastic resin tapes. 3,702,055, 11-7-72, Cl. 57-157.0ts.

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Kosaka, Masahiro, to Matsushita Electric Industrial Co., Ltd. Cross-talk elimination system for an instructional tape recorder. 3,683,515, 8-15-72, Cl. 35-35.00c.

Kosaka, Mitsuo, to Shimadzu Seisakusho Ltd. Electrohydraulic metal forming machine. 3,631,700, 1-4-72, Cl. 72-56.

Kosaka, Shinya, to Olympus Optical Co., Ltd. Electric power supply device for an endoscope. 3,670,722, 6-20-72, Cl. 128-6.000.

Kosaka, Tomoaki: *See—*
Konno, Akira; and Kosaka, Tomoaki, 3,692,940.
Ohshima, Haruhiko; Mizuno, Hiroshi; Konno, Akira; and Kosaka, Tomoaki, 3,641,270.

Kosaka, Yoshiteru, to Victor Company of Japan Limited. Signal editing system and apparatus for recording and reproducing apparatus. 3,671,665, 6-20-72, Cl. 178-6.60p.

Kosakowski, Henry R., to Bendix Corporation, The. Pulse train to digital converter. 3,685,043, 8-15-72, Cl. 340-347.0dd.

Kosarev, Sergei Petrovich: *See—*
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Kosarev, Viktor Sergeevich: *See—*
Lidorenko, Nikolai Stepanovich; Landsman, Arkady Pavlovich; Strebkov, Dmitry Semenovich; Zaitseva, Aita Konstantinovna; Zadde, Vitaly Viktorovich; and Kosarev, Viktor Sergeevich, 3,653,971.

Kosasayama, Akira: *See—*
Abe, Hiroshi; Shigeta, Yukio; Uchimaru, Fumihiko; Okada, Seizaburo; and Kosasayama, Akira, 3,646,031.

Koschatzky, Bruno; Angioletti, Attilio E.; and Madonini, Nino, to Industrie Pirelli S.p.A. Winding machine for covering a hose of high polymer with reinforcing threads. 3,667,203, 6-6-72, Cl. 57-15.

Koschatzky, Karl, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Bending tool for bending deformable workpieces, such as metal sheets and the like. 3,705,512, 12-12-72, Cl. 72-57.000.

Kosche, Horst. Method of multiple transfer of latent electrostatic images. 3,704,120, 11-28-72, Cl. 96-1.00r.

Koschinat, Baldur: *See—*
Werner, Hans; Koschinat, Baldur; and Vormbaum, Otto, 3,643,906.

Koschoff, John; Haas, Kenneth C.; and Pettit, Robert F., to Teledyne, Inc. Thread trimmer for blind stitch sewing machine. 3,665,878, 5-30-72, Cl. 112-252.000.

Koscinski, Anthony: *See—*
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Kosciolek, Joseph H.: *See—*
Dierdorff, Lee H., Jr.; and Kosciolek, Joseph H., 3,655,698.

Kosco, William C., to LaSalle Machine Tool, Inc. Alternating current static control system. 3,684,926, 8-15-72, Cl. 317-148.50r.

Kose, Tatsuo: *See—*
Hori, Kiyokazu; Kose, Tatsuo; and Ochi, Kazuo, 3,695,017.

Kosek, Joseph. Fishing reel. 3,652,031, 3-28-72, Cl. 242-219.

Koseki, Toshinori: *See—*
Aishima, Itsuho; Takashi, Yukichi; and Koseki, Toshinori, 3,694,403.

Kosel, Christian; and Hartmann, Adolf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of linear polyester using metal germanates and metal glycol germanates as the catalyst. 3,654,233, 4-4-72, Cl. 260-5.

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Kosel, George E., to Hunt, Philip A., Chemical Corporation. Liquid developer for electrostatography. 3,669,886, 6-13-72, Cl. 252-62.1.

Kosem, Marion: *See—*
Alessio, Sergio A.; Chow, Weichien; and Kosem, Marion, 3,703,033.

Kosem, Marion, to Allen-Bradley Company, mesne. Surface speed control of spindle-related numerical control system. 3,656,377, 4-18-72, Cl. 82-1.

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Kosen, Marion, to Allen-Bradley Company, mesne. Feedrate computer using a read only memory. 3,651,314, 3-21-72, Cl. 235-151.11.

Koser, Robert F.: *See—*
Koser, Robert F.; and Messner, Jack D. (said Messner assor. to said), 3,698,575.

Koser, Robert F.; and Messner, Jack D., said Messner assor. to said Koser, Robert F. Automatically lowering unloader. 3,698,575, 10-17-72, Cl. 214-17.0db.

Koshar, Robert J.: *See—*
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Fleming, Frederick A.; Koshar, Robert J.; and Wright, Charles D., 3,694,404.
Mitsch, Ronald A.; and Koshar, Robert J., 3,700,737.

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Koshelev, A. Vladimir: *See—*
Chelnokov, Ivan Ivanovich; Garbuzov, Vladimir Mikhailovich; Koshelev, A. Vladimir; Levit, Georgy Mikhailovich; Maltsev, Albert Alexandrovich; and Myachev, Vladimir Fedorovich, 3,701,402.

Koshiba, Masao: *See—*
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Koshida, Kazuo: *See—*
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Koshihara, Atsuo. Winch. 3,666,239, 5-30-72, Cl. 254-175.500.

Koshiishi, Hiromichi: *See—*
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Koshikawa, Takeo: *See—*
Nakano, Mamoru; Kadowaki, Koju; Komurao, Isao; Koshikawa, Takeo; and Oshida, Bunzi, 3,703,550.

Koshikawa, Tsuneji; and Kobayashi, Masaharu, to Hitachi, Ltd. Frequency spectrum analyzer with a real time display device. 3,634,759, 1-11-72, Cl. 324-77.

Koshimo, Akio: *See—*

Maeda, Yutaka; Kimura, Hiroshiro; Koshimo, Akio; Kanzaki, Nagamasa; Yasuzuka, Katsumi; and Furukawa, Yoshinobu, 3,643,412.
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Koshimoto, Shinsuke: *See—*
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Koshimura, Masamitsu: *See—*
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Koshkin, Lev Nikolaevich; Zazhigin, Alexei Sergeevich; Tanygin, Vitaly Matveevich; Chagin, Valentin Petrovich; and Khomenko, Vasily Iosipovich. Conveyor for assembly apertured workpieces adapted to be received one within another. 3,631,965, 1-4-72, Cl. 198131.

Koshman, Eduard Ivanovich: *See—*
Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezovsky, Pavel Iosipovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavolich; Gutarevich, Jury Feodosievich; Kislov, Vladimir Grigorievich; Chevtaev, Andrei Vasilieich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.

Kosiba, Joseph K.: *See—*
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Kosicki, Bernard B.: *See—*
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Kosicki, Witold W.; and Hollingsworth, Charles M., to Horsman Dolls, Inc. Dual action phonetic doll. 3,638,351, 2-1-72, Cl. 46-117.

Kosiol, Wilfried: *See—*
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Koskela, Dennis E., to Bio-Consultants, Inc. Centrifuge control system. 3,633,041, 1-4-72, Cl. 307-119.

Koskela, Robert B., to General Motors Corporation. Four-pinion differential. 3,653,280, 4-4-72, Cl. 74-713.

Kosker, Leon G., to Kennametal Inc. Boring bar. 3,647,307, 3-7-72, Cl. 408-181.

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Koskolos, Nick J.: *See—*
Mc Intosh, Harold A.; Slocum, Gordon K.; and Koskolos, Nick J., 3,652,195.

Kosky, Richard P.: *See—*
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Koslosky, Frank, Jr., to Petro-Tex Chemical Corporation. Metal ferrite catalyst activation with a large amount of halogen. 3,666,684, 5-30-72, Cl. 252-415.

Koslow, George. Taper drill. 3,645,642, 2-29-72, Cl. 408-202.

Kosmahl, Henry G., to United States of America, National Aeronautics and Space Administration. Electrostatic collector for charged particles. 3,702,951, 11-14-72, Cl. 315-5.380.

Kosmala, Ronald W.; and Whitaker, Ritchie W., to Royal Industries, Inc. Bi-directional valve for cryogenic fluids. 3,650,508, 3-21-72, Cl. 251-174.

Kosmowski, Wojciech B., to Advanced Controls Corporation. Centrifugal chuck device. 3,672,256, 6-27-72, Cl. 90-11.00a.

Kosmowski, Wojciech B., to Digital Systems, Inc. Collet. 3,687,467, 8-29-72, Cl. 279-1.00b.

Kosoczky, Ibolya: *See—*
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Kosonocky, Walter Frank: *See—*
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Koss Electronics, Inc.: *See—*
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Koss, Louis J., to Capital Machine Company, Inc. Hydraulically controlled pressure cap. 3,654,973, 4-11-72, Cl. 144-178.

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Kossen, Dale J.; Foster, Richard W.; and Benson, Charles R., to Alarm Lock Company, Inc. Electrically actuated switch combinated operating device for permitting operation of latches and mechanisms. 3,641,396, 2-8-72, Cl. 317-134.

Kossuth, Otto: *See—*
Wickham, William T.; Brown, Frank; Kleykamp, Donald L.; and Kossuth, Otto, 3,636,285.

Kost, Erwin, to Schloemann Aktiengesellschaft. Fluid operated coupling with radially guided friction segments. 3,648,812, 3-14-72, Cl. 192-88.

Kost, Robert A., to City of Fort Collins. Modular utility vault. 3,672,103, 6-27-72, Cl. 52-20.000.

Kostas, George J., to Continental Oil Company. Apparatus for plating heat-resistant articles. 3,707,136, 12-26-72, Cl. 118-303.000.

Kostas, James M.; Norick, William B.; and Laughlin, Raymond R., to Caterpillar Tractor Company. Balanced track-type loader construction. 3,656,642, 4-18-72, Cl. 214-140.

Koste, Bernard F: *See—*
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Koste, Elsie E.: *See—*
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Kostechko, Roza Fedorovna: *See—*
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Kostel, Paul Steven; Borgen, William Earl; and Willert, Richard Joseph, to M-Tron Industries Inc. Electronic air purifier. 3,685,258, 8-22-72, Cl. 55-129.000.

Kostelecky, Premysl: *See—*
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Sedlarik, Jaroslav; Havlas, Jiri; and Kostelecky, Premysl, 3,640,440.

Kostelnicek, Richard J., to Esso Production Research Company. Flexible geophone. 3,689,875, 9-5-72, Cl. 340-17.000.

Kostenbauer, Ronald F.; and Welch, James P., to Odetics, Inc. Digital format converter. 3,705,398, 12-5-72, Cl. 340-347.0dd.

Kostenko, Alla Elisbarovna; Karpukhina, Valentina Vasilievna; Stovpyaga, Valentina Petrovna; Freidlin, Gilia Naumovich; Adamov, Ary Artemovich; and Berezhnaya, Lidia Fedotovna. Unsaturated polyester resins, method of their production and application. 3,660528, 5-2-72, Cl. 260-861.

Koster, Claus: *See—*
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Koster, Klaus, to Mount Hope Machinery Company. Sheet guiding and opening apparatus. 3,673,647, 7-4-72, Cl. 26-54.000.

Kosters, Paul Louis Marie, to Sperry Rand Corporation. Power operated typewriter. 3,633,723, 1-11-72, Cl. 197-17.

Kosti, Carl M. Radio sensitive film. 3,682,638, 8-8-72, Cl. 96-76.000.

Kostikov, Vladimir Grigorievich: *See—*
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Kostin, Konstantin Fedorovich; Sapunov, Georgy Konstantinovich; Svirin, Alvian Afanasievich; Strakhov, Valery Ivanovich; and Shur, Grigory Iosifovich. Stator bar winding of electric machine. 3,648,091, 3-7-72, Cl. 310-260.

Kostohryz, Frank J.: *See—*
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Kostroun, Vaclav; and Quenzler, Henry H. W., to Boeing Company, The. Aircraft tire explosion prevention system. 3,645,479, 2-29-72, Cl. 244-103.

Kostrzewski, James A.: *See—*
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Kostuch, Donald J.: *See—*
Bartholomew, Gerald E.; Kostuch, Donald J.; Robinson, Thomas E.; and Rohland, William S., 3,697,951.

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Kostur, Robert E., to Comet Industries, Inc. Gas-fired thermoforming machine. 3,692,288, 9-19-72, Cl. 263-40.00r.

Kostur, Robert E., to Comet Industries, Inc. Molding machine. 3,704,974, 12-5-72, Cl. 425-214.000.

Kostylev, Alexandr Dmitrievich: *See—*
Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Typitsin, Konstantin Konstantinovich; Klimashko, Vladimir Vasilievich; and Plavskikh, Vladimir Dmitrievich, 3,651,874.
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Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tkach, Khai Berkovich; and Chepurnoi, Nikolai Prokhorovich. Device for stabilizing the course of the tunnelling element. 3,677,354, 7-18-72, Cl. 175-76.000.

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Kosubek, Uwe: *See—*
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Kosuge, Hiroshi: *See—*
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Kosuge, Kuniko: *See—*
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Kosugi, Kazuo: *See—*
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Kosugi, Takeshi; and Kunimitsu, Toshio, to Nakakita Seisakusho Company Limited. Method of automatic valve control. 3,664,358, 5-23-72, Cl. 137-14.

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Kosziech, Karl-Heinz: *See—*
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Kosziech, Karl-Heinz; and Teschner, Kurt, to Dornier A.G. Rotor mast support for helicopters. 3,697,024, 10-10-72, Cl. 248-15.000.

Koszyn, Allan I.: *See—*
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Kot, Vladimir Ivanovich: *See—*
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Kotaka, Katsuhiro: *See—*
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Kotch, Robert Alan, to Bell Telephone Laboratories, Incorporated. Delta modulation system using variable weighted quanta to overcome slope limitations. 3,646,442, 2-29-72, Cl. 325-38.

Kotera, Noboru: *See—*
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Kotheimer, William C.: *See—*
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Kotkins, Henry L., to Skyway Luggage Company. Luggage construction. 3,669,228, 6-13-72, Cl. 190-41.00r.

Kotla, John J.: *See—*
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Kotler, Max; and Ravese, Frank E., to DeJur-Amsco Corporation. Feed means for optical display device and control system therefor. 3,690,746, 9-12-72, Cl. 352-12.000.

Kotler, Richard: *See—*
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Koto Denki Kabushiki Kaisha: *See—*
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Kotsakis, Mike D., to Imperial-Eastman Corporation. Vibration resistant coupling. 3,684,322, 8-15-72, Cl. 285-343.000.

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Koutz, Stanley L., to Gulf Oil Corporation. Energy storage system and method. 3,677,008, 7-18-72, Cl. 60-59.00t.
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Kovacevic, Slavko. Floor maintenance machine. 3,631,558, 1-4-72, Cl. 15-50.
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Kovach, Stephen M.; and Patrick, Ralph E., to Ashland Oil, Inc. Resins prepared from aromatic hydrocarbons. 3,649,517, 3-14-72, Cl. 208-22.
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Kovach, Stephen M.; Patrick, Ralph E.; and Kmecak, Ronald A., to Ashland Oil Inc. Hydrodealkylation process with promoted group VIII metals. 3,700,745, 10-24-72, Cl. 260-672.00r.
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Kovacs, Lloyd, to Midland-Ross Corporation. Extrusion die head with reversed-flow and adjustable-choke structure. 3,690,806, 9-12-72, Cl. 425-467.000.
Kovacs, Mark A., to United Aircraft Corporation. Atomic fluorine laser. 3,676,797, 7-11-72, Cl. 331-94.500.
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Kovacs, William L., to Procter & Gamble Company, The. Separation of phosphorous acid from mixtures of phosphorous acid and phosphoric acid by crystallization. 3,679,374, 7-25-72, Cl. 23-297.000.
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Kovalcik, Edward J.; and Dowling, Edward D., to Pullman Incorporated. Hearth scraping device. 3,667,743, 6-6-72, Cl. 263-7.000.
Kovalcik, John N.; and Hovis, Donald B., to Medipak Corporation Limited. Container for surgical instruments and appliances. 3,697,223, 10-10-72, Cl. 21-83.00.
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Kowal, Leonard J., to I-T-E Imperial Corporation, mesne. Tube cutter. 3,665,604, 5-30-72, Cl. 30-102.000.

Kowal, Leonard J., to Imperial-Eastman Corporation. Tube bender. 3,685,335, 8-22-72, Cl. 72-319.000.

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Koyama, Masaki; Shimada, Sadakuni; and Karikomi, Masahiro, to Nippon Telegraph and Telephone Public Corporation. Frequency group separation filter device using laminated dielectric slab-shaped elements. 3,698,001, 10-10-72, Cl. 343-909.000.

Koyama, Megumi: *See—*
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Koyama, Mikihiro, to Honda Giken Kogyo Kabushiki Kaisha. Support of an air hose of an air cleaner of a motorcycle at its inlet opening. 3,698,503, 10-17-72, Cl. 180-33.00r.

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Koyanagi, Shunichi; Kitamura, Hajime; Ogawa, Kinya; and Tajima, Shigenobu, to Shinetsu Chemical Company. Method for producing chloride by suspension polymerization. 3,661,867, 5-9-72, Cl. 260-78.5cl.

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Kozacka, Frederick J., to Chase-Shawmut Company, The. Electric cartridge fuses with blown fuse indicator. 3,663,915, 5-16-72, Cl. 337-244.

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Kozacka, Frederick J., to Chase-Shawmut Company, The. Compact polyphase fuse. 3,671,910, 6-20-72, Cl. 337-146.000.

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Kranz, Kenneth R.: *See—*
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Kranz, Raymond E.: *See—*
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Kranz, Walter, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Apparatus for the formation of output signals from gyroscopes. 3,702,079, 11-7-72, Cl. 74-5.600.
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Krapf Rudolf: *See—*
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Krapu, John M. Wedging and prying tool. 3,704,860, 12-5-72, Cl. 254-95.
Kraschnewski, Melvin W.; and Stoldt, Erwin F., to Bucyrus-Erie Company. Tread belt drive. 3,680,928, 8-1-72, Cl. 305-57.000.
Kraschnewski, Melvin W.; and Lesniewski, Gerald F., to Bucyrus-Erie Company. Power shovel front end. 3,690,483, 9-12-72, Cl. 214-137.000.
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Krasny, Carl, & Associates, Inc.: *See—*
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Krass, Morton: *See—*
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Krastchew, Christoslaw. Cooling arrangement for a dynamoelectric machine. 3,681,628, 8-1-72, Cl. 310-54.000.
Kratcoski, Frank L.: *See—*
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Kratomi, Shunsei. AND-circuit-controlled program switch having selective signal-transfer circuits. 3,644,746, 2-22-72, Cl. 307-41.
Kratschmar, Herwig; and Madelung, Gero Otto, to Messerschmitt-Bolkow-Blohm. Swing-wing aircraft. 3,645,477, 2-29-72, Cl. 244-46.
Kratt, Henry J., to Remco Manufacturing Co., Inc. Cleaning brush assembly for cleaning cylindrical surfaces. 3,641,608, 2-15-72, Cl. 15-88.
Kratt, Henry J. Gun safety device. 3,704,536, 12-5-72, Cl. 42-1.00r.
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Kratt, Kurt Wilhelm: *See—*
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Kratz, Kenneth E. Sailboat rigging. 3,656,444, 4-18-72, Cl. 114-39.
Kratz, Philip De C.; and Bondarovich, Henry A., to International Flavors & Fragrances Inc. Use of 1-(prop-1'-enyl)-3,4,5 trimethoxy benzen to alter the flavor of food. 3,686,004, 8-22-72, Cl. 99-140.00r.
Kratzert, Friedrich; and Rocker, Hermann, to Windmoller & Holscher. Machine for making bags of paper or plastics film and which is equipped with a rotary delivery cylinder. 3,631,770, 1-4-72, Cl. 93-93.
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Krauch, Carl Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Plates, sheeting and film of photopolymerizable compositions containing indigoid dyes. 3,637,382, 1-25-72, Cl. 96-35.1.
Krauch, Carl Heinrich; and Sanner, Axel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Manufacture of poromeric materials. 3,640,753, 2-8-72, Cl. 117-62.2.
Krauch, Carl Heinrich; and Hoffmann, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Photopolymerizable compositions containing oxyphosphoranes. 3,682,808, 8-8-72, Cl. 204-159.150.
Krauer, Werner; Martinelli, Alfred; and Oehme, Friedrich, to Polymetron Ltd. Temperature detector for automatically compensating the influence of temperature upon electrolytic conductivity. 3,657,731, 4-18-72, Cl. 324-30.
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Krauer, Werner; and Martinelli, Alfred, to Polymetron Ltd. Apparatus for changing tubes in peristaltic pumps. 3,677,577, 7-18-72, Cl. 285-137.000.
Kraus, Bernhard J.; and Kim, Dae Sik, to Esso Research and Engineering Company. Low polluting internal combustion engine wherein secondary air is utilized to prevent overheating of the exhaust manifold. 3,641,767, 2-15-72, Cl. 60-30.
Kraus, Bernhard J.; and Kim, Dae Sik, to Esso Research and Engineering Company. Low polluting internal combustion engine wherein secondary air is injected into the exhaust ports. 3,643,425, 2-22-72, Cl. 60-30.
Kraus, Bernhard J.; and Kim, Dae Sik, to Esso Research and Engineering Company. Low polluting internal combustion engine wherein exhaust gases are recycled in a controlled pattern. 3,643,640, 2-22-72, Cl. 123-119.
Kraus, Charles E., to Excelermatic, Inc. Motion transmission drive. 3,640,145, 2-8-72, Cl. 74-248.
Kraus, Friedrich, to Siemens Aktiengesellschaft. Method of applying a coating by cathode sputtering. 3,654,110, 4-4-72, Cl. 204-192.
Kraus, Gerard, to Phillips Petroleum Company. Carbon black blending in rubber. 3,675,009, 7-4-72, Cl. 250-49.50r.
Kraus, Helmut; and Fadler, Kurt, to Fichtel & Sachs AG. Simultaneously or alternatively engaged fluid clutches. 3,669,233, 6-13-72, Cl. 192-87.110.
Kraus, Joachim: *See—*
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Kraus, Johann. Through running and pressure pump. 3,695,787, 10-3-72, Cl. 417-547.000.
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Kraus, Robert J. Torque wrench. 3,664,186, 5-23-72, Cl. 73-139.
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Kraus, Willibald, to Rheinstahl Huttenwerk AG. Water pipe boiler. 3,633,550, 1-11-72, Cl. 122-235.
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Krause, Bernhard: *See—*
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Krause, Bruno. Apparatus for potting of plants. 3,657,839, 4-25-72, Cl. 47-1.
Krause, Edward F. Grounded female socket and plug. 3,644,867, 2-22-72, Cl. 339-14.
Krause, Erich, to Universal Maschinenfabrik Dr. Rudolf Schieber KG. Knitting machine with narrowing and widening mechanism. 3,646,783, 3-7-72, Cl. 66-95.
Krause, Erich, to Universal Maschinenfabrik Dr. Rudolf Schieber KG. Flat knitting machine with automatic transfer device. 3,677,037, 7-18-72, Cl. 66-147.000.
Krause, Frederick A., Associates, Inc.: *See—*
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Krause, Gerhard, to Fernseh G.m.b.H. Comparing television signals with varied threshold and producing binary signals. 3,637,927, 1-25-72, Cl. 178-6.
Krause, Gerhard, to Fernseh G.m.b.H. Automatic fine time correcting circuit for time correcting the output of a coarse time corrector in a color TV system. 3,637,936, 1-25-72, Cl. 178-69.5.
Krause, Gerhard, to Fernseh G.m.b.H. Shift register. 3,641,363, 2-8-72, Cl. 307-221.
Krause, Gerhard, to Fernseh G.m.b.H. Circuit arrangement for the correction of time errors in electrical signals received from an information carrier. 3,666,880, 5-30-72, Cl. 178-5.20r.
Krause, Gerhard, to Fernseh G.m.b.H. Abrasion resistant recording head. 3,683,126, 8-8-72, Cl. 179-100.20c.
Krause, Hans-Juergen; and Rindsfuesser, Johannes, to National Cash Register Company, The. Totalizer control mechanism. 3,652,010, 3-28-72, Cl. 235-60.
Krause, Hans-Juergen; and Rindsfuesser, Johannes, to National Cash Register Company, The. Tens transfer mechanism. 3,682,379, 8-8-72, Cl. 235-137.00a.
Krause, Herbert K. Self-unloading vehicle. 3,682,333, 8-8-72, Cl. 214-82.000.
Krause, Horatio H.; McNulty, Justin S.; and Hall, Robert E., to Procter & Gamble Company, The. Process for the preparation of an anhydride of trivalent phosphorus. 3,652,213, 3-28-72, Cl. 23-165.
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Krause, John T., to Bell Telephone Laboratories, Incorporated. Zero temperature coefficient ultrasonic transmission medium having temporal stability. 3,651,431, 3-21-72, Cl. 333-30.
Krause, John Thorvald; and Kurkjian, Charles Robert, to Bell Telephone Laboratories, Incorporated. Acousto-optic and ultrasonic devices using germanium containing chalcogenide glasses. 3,655,255, 4-11-72, Cl. 350-1.
Krause, Konrad A. Automatic tape threading system and apparatus. 3,643,889, 2-22-72, Cl. 242-182.
Krause, Konrad A.; and Moradzadeh, Yaqub, to International Business Machines Corporation. Apparatus for transferring developed image. 3,691,993, 9-19-72, Cl. 118-637.000.
Krause, Peter L., to Burroughs Corporation. Correction of asynchronous timing utilizing a phase control loop. 3,653,009, 3-28-72, Cl. 340-174.1.
Krause, Peter L., to Burroughs Corporation. Phase synchronizing system. 3,657,732, 4-18-72, Cl. 328-155.
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Krause, Ronald O.; and Ayala, Kenneth J., to Nutrico, Inc. Signal converter and amplifier for metering additive flow. 3,687,151, 8-29-72, Cl. 137-101.210.
Krause, Ronald O.; and Bayne, Peter D., to Nutrico, Inc. Continuous control for introducing material into a flowing liquid. 3,705,597, 12-12-72, Cl. 137-101.210.
Krause, Rudolf J., to Rhewum Rheinische Werkzeug- und Maschinenfabrik, G.m.b.H. Screen with differently tensioned surface zones. 3,706,376, 12-19-72, Cl. 209-347.000.
Krause, Werner A.: *See—*
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Krauskopf, William B. Elastomeric interlock to prevent vertical disengagement of railway car couples. 3,675,787, 7-11-72, Cl. 213-153.000.
Krauss & Reichert Spezialmachinenfabrik: *See—*
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Krauss, Heinz-Walter: *See—*
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Krauss, Paul; Roethke, Ernst; and Tenholtern, Gerhard, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Textile machine and method of processing threads. 3,631,663, 1-4-72, Cl. 57-34.
Krauss, Paul; and Igel, Wolfgang, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Apparatus for rendering textile slivers uniform. 3,703,023, 11-21-72, Cl. 19-240.000.
Krauss, Rudolf; and Walch, Eugen, to Bosch, Robert, G.m.b.H. Fuel injection valve. 3,690,566, 9-12-72, Cl. 239-453.000.
Krauss, Wallace J. Rope brake. 3,682,276, 8-8-72, Cl. 188-65.300.
Krauss, Walter Francis Henry; and Westmore, Norman Ernest; deceased (by Westmore, Anna Mira; executor). Apparatus and method for aligning belt conveyor components such as idler frames and pulleys. 3,664,489, 5-23-72, Cl. 198-192.
Krauss-Maffei Aktiengesellschaft: *See—*
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Keuerleber, Rudi; and Pahl, Fritz-Wilhelm, 3,706,515.
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Krausser, Friedrich Johann, to Emerson Electric Co. Variable direct voltage memory circuit. 3,652,914, 3-28-72, Cl. 320-1.
Krausser, Friedrich Johann, to Emerson Electric Co. Digital indicator for use with turnable electronic apparatus. 3,701,951, 10-31-72, Cl. 325-455.000.
Krausser, Friedrich Johann, to Emerson Electric Co. Automatic tuning circuit. 3,706,041, 12-12-72, Cl. 325-422.000.
Krausz, Johann; and Feichtinger, Johan, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Method for the production or restoration of working rolls for hot rolling of metallic flat products. 3,703,057, 11-21-72, Cl. 51-326.000.
Kraut, Edgar A.: *See—*
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Krauth, Adolf W., to Compret N.V. Sling type exercising device. 3,633,908, 1-11-72, Cl. 272-83.
Krauth, Axel; and Teiwes, Hans-Jurgen, to NUKEM, Nuklear-Chemie and Metallurgie Gesellschaft mit beschrankter Haftung. Apparatus for vapor free melting of uranium carbide or plutonium carbide. 3,668,292, 6-6-72, Cl. 13-23.000.
Krauth, Charles A.; Shealy, Yoder Fulmer; and O'Dell, Clinton Allen, to United States of America, Health, Education and Welfare. Triazeno compounds. 3,649,613, 3-14-72, Cl. 260-140.
Krauth, Charles A.; Shealy, Yoder Fulmer; and O'Dell, Clinton Allen. Diazo derivatives of imidazole carboxylic acid esters. 3,654,257, 4-4-72, Cl. 260-141.
Krautkramer, Dr., J. U.H., Gesellschaft fur Elektrophysik: *See—*
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Krautkramer, Gunter J., to Berg, Jacob, K.G. Telescopic closure for can and canister type containers. 3,658,218, 4-25-72, Cl. 222-522.000.
Krautkramer, Herbert; and Krautkramer, Joseph. Apparatus to prevent mismeasuring of wall thickness gauging by ultrasound. 3,665,754, 5-30-72, Cl. 73-67.8.
Krautkramer, Joseph: *See—*
Krautkramer, Herbert; and Krautkramer, Joseph, 3,665,754.
Krautkremer, Franz, to Schottel-Werft, Josef Becker K.G. Hopper barge drivable with a driving means. 3,648,637, 3-14-72, Cl. 114-29.
Krautkremer, Franz, to Schottel of America Inc. Lift and swinging device for a steerable propeller. 3,683,841, 8-15-72, Cl. 315-44.00r.
Krautter, Willy Friedrich. Winter-sport device. 3,656,775, 4-18-72, Cl. 280-16.
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Kravetz, Louis; and Ferrante, Gerald R., to Shell Oil Company. Process of removing polyvinyl alcohol containing size. 3,682,583, 8-8-72, Cl. 8-138.000.
Kravitz, Bernard L., to Dionics, Incorporated. Method of producing air-isolated integrated circuits. 3,680,205, 8-1-72, Cl. 29-578.000.
Kravitz, Harley A., to Acar Industries, Inc. Bicycle wheel carrier for automobile mounting. 3,659,762, 5-2-72, Cl. 224-42.03.
Kravitz, Milton: *See—*
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Kravitz, Stanley: *See—*
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Suggitt, Robert M.; Kravitz, Stanley; and Estes, John H., 3,663,636.
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Suggitt, Robert M.; Estes, John H.; and Kravitz, Stanley, 3,692,695.
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Krawarik, Peter: *See—*
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Krawczyk, Arthur J., to Textron, Inc. Free isocyanate-blocked wrinkle finish coating compositions and articles coated therewith. 3,645,943, 2-29-72, Cl. 260-22.
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Krawiec, Donald M., to Combustion Engineering, Inc. Nuclear reactor spring ferrule spacer grid. 3,664,924, 5-23-72, Cl. 176-78.
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Kray, Louis R., to Chevron Research Company. Dialkyl phthalate process. 3,700,725, 10-24-72, Cl. 260-475.00r.
Kray, Raymond J.; Tetenbaum, Marvin T.; Wenner, Wilbert M.; and Barton, Oliver A., to Allied Chemical Corporation. Vinyl terpolymer compositions. 3,639,326, 2-1-72, Cl. 260-29.6.
Kray, Raymond J.; and Winter, Roland A. E., to Ciba-Geigy Corporation. Triazine based polybenzimidazole. 3,642,720, 2-15-72, Cl. 260-78.4.
Kray, Raymond J.; and Winter, Roland A. E., to Ciba-Geigy Corporation. Polyimides from 2,6-diamino-s-triazines and dianhydrides. 3,666,723, 5-30-72, Cl. 260-65.
Kray, William C.; and Winkler, De Loss E., to United States of America, Health, Education and Welfare. Process for the preparation of hydroxylated block polymers. 3,663,659, 5-16-72, Cl. 260-880.
Kraychy, Stephen; Marsheck, William J.; and Muir, Robert D., to Searle, G. D., & Co. Selective microbiological degradation of steroidal 17-alkyls. 3,684,657, 8-15-72, Cl. 195-51.00g.
Krchnavi, John; and Leech, William D., to Bio-Med Research Corporation. Animal feed containing mortmorillonite clay. 3,687,680, 8-29-72, Cl. 99-4.000.
Krebs, Adolf W.: *See—*
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Krebs, Frederick G.; Marcey, Stephen D.; and Redman, Samuel A., to National Cash Register Company, The. Fatigue-resistant attachment for highly-stressed members such as print hammers. 3,635,156, 1-18-72, Cl. 101-93.
Krebs, Frederick G.; and Redman, Samuel A., to National Cash Register Company, The. Resilient magnetic coupling. 3,652,965, 3-28-72, Cl. 335-277.
Krebs, James N.; and Paulson, Elmir E., to General Electric Company. Gas turbine engine. 3,703,081, 11-21-72, Cl. 60-226.00r.
Krebs, James Norton; and Kappus, Peter G., to General Electric Company. Fan engine with counter rotating geared core booster. 3,673,802, 7-4-72, Cl. 60-226.

Krebs, Jean-Pierre: *See—*
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Krebs, Jimmie M., to Chicago Show Printing Company. Display assembly and element therefor. 3,674,156, 7-4-72, Cl. 211-4.000.
Krebs, Kay E., to Kimberly-Clark Corporation. Surgical drape sheet. 3,667,458, 6-6-72, Cl. 128-132.
Krebs, Klaus H. Device for the retrieval of data. 3,664,500, 5-23-72, Cl. 209-80.5.
Krebs, Peter Eric, to Solartron Electronic Group Limited, The. Pulse counters. 3,673,390, 6-27-72, Cl. 235-92.0sh.
Krebs, William B., to Keystone-Seneca Wire Cloth Company. Snow fence. 3,672,638, 6-27-72, Cl. 256-12.500.
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Enseki, Richard K.; and Arnone, Michael P., 3,638,783.
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Kreiss, Manfred, to Erdol-Raffinnerie Mannheim GmbH., mesne. Method and installation for detecting fluid leakage from a pipeline. 3,664,357, 5-23-72, Cl. 137-2.
Kreitmayer, Harry A.: *See—*
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Kreitner, Frederick J., to Sperry Rand Corporation. Active tank stabilizer for marine vessels. 3,698,345, 10-17-72, Cl. 114-125.000.
Kreitz, Walter, to ITT Industries, Inc. Monolithic integrable crystal oscillator circuit. 3,684,981, 8-15-72, Cl. 331-116.00r.
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Krekeler, Hans; Fernholz, Hans; and Jacobsen, Gunter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing mixtures of acetaldehyde, acetic acid and vinyl acetate. 3,637,818, 1-25-72, Cl. 260-497.
Krekeler, Hans; Meidert, Helmut; Riemenschneider, Wilhelm; and Hornig, Lothar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of carbon-tetrachloride. 3,651,157, 3-21-72, Cl. 260-664.
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Krellner, Walter G.; and Shobert, Erle I., II, to Stackpole Carbon Company. Self-aligning bearing. 3,671,092, 6-20-72, Cl. 308-72.000.
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Kremer, Frederic B. Body current activated circuit breaker. 3,706,008, 12-12-72, Cl. 317-18.00a.
Kremer, Gilbert V. H.: *See—*
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Kremer, Leon V.: *See—*
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Kremers, Frank J.; and Rhodes, Michael S., to Allied Chemical Corporation. Alkenyl sulfosuccinic anhydrides, acids and salts thereof. 3,706,771, 12-19-72, Cl. 260-346.800.
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Kremper, Dieter: *See—*
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Kremr, Milan; and Hrabovsky, Vaclav, to Statni vyzkumny ustav kozedelny. Method of preparing collagen fibers. 3,652,381, 3-28-72, Cl. 162-2.

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Kremser, Gunter, to Siemens Aktiengesellschaft. Apparatus for saturating and hardening the stator winding rods of high voltage electric machines. 3,704,870, 12-5-72, Cl. 263-2.00r.

Krengel, Theodore H.; and Pool, Richard L., to Allied Tube & Conduit Corporation. Protective and supporting means for apparatus for continuously coating steel strip. 3,673,980, 7-4-72, Cl. 118-6.000.

Krengel, Theodore H.; Ostrowski, Arthur E.; and Raymond, Anthony J., to Allied Tube & Conduit Corporation. Method and apparatus for continuously galvanizing steel strip. 3,696,503, 10-10-72, Cl. 29-527.400.

Krenzer, John: *See—*
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Krenzer, John; and Richter, Sidney B., to Velsicol Chemical Corporation. Certain N-phenyl, N-lower-alkyl-pyridine carboxamides and derivatives thereof. 3,646,042, 2-29-72, Cl. 260-294.9.

Krenzer, John; and Richter, Sidney B., to Velsicol Chemical Corporation. N,O-Dicarbamoyl-N-phenylhydroxylamines. 3,655,751, 4-11-72, Cl. 260-545.

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Krepps, James Edgar, Jr.; Chamberlain, Meredith K.; and Fisher, Robert D., to Sarkes Tarzian, Inc. AM, FM, and FM stereo tuner having simplified AM to FM switching means. 3,679,979, 7-25-72, Cl. 325-315.000.

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Kresock, John M., to Magnavox Company, The. Apparatus for modifying electrical signals. 3,654,384, 4-4-72, Cl. 178-5.4.

Kresock, John M., to Magnavox Company, The. Constant amplitude phase shifter. 3,694,567, 9-26-72, Cl. 178-5.4ck.

Kress, Dieter: *See—*
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Kress, Herwig. Method and device for controlling the piston movement of hydrostatic prime movers. 3,635,014, 1-18-72, Cl. 60-19.

Kress, James H. Fishing lure having a fish hook impeller. 3,645,033, 2-29-72, Cl. 43-26.2.

Kress, James Henry, to Deere & Company. Radial piston hydraulic device. 3,693,507, 9-26-72, Cl. 91-492.000.

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Kressley, Leonard J., to Dow Chemical Company, The. Self-leveling grateless stack gas scrubber. 3,685,262, 8-22-72, Cl. 55-390.000.

Kressman, Carl H.: *See—*
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Krestan, Rudolf; and Kenngott, Kurt, to Daimler-Benz Aktiengesellschaft. Oil pan for a multi-cylinder reciprocating piston internal combustion engine. 3,688,871, 9-5-72, Cl. 184-6.500.

Kretchman, Gerald L., to Whirlpool Corporation. Expandable spiral filter. 3,684,096, 8-15-72, Cl. 210-356.000.

Kretschmar, Herbert C.; and Erman, William F., to Procter & Gamble Company, The. Process for preparing β-santatol from 3-methylnorcamphor. 3,662,008, 5-9-72, Cl. 260-631.5.

Kretschmar, Herbert C.; and Erman, William F., to Procter & Gamble Company, The. Perfume compounds and process for preparing same. 3,673,261, 6-27-72, Cl. 260-617.00f.

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Kretschmer, Peter: *See—*
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Kretzschmar, Heinz; and Naumann, Franz, to Organisation Ralfs KG. Transport container for use with a conveyor system. 3,643,784, 2-22-72, Cl. 198-38.

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Kreuder, Manfred; Metzner, Wolfgang; Sobel, Johannes; Himmelmann, Wolfgang; and Nittel, Fritz, to Agfa-Gevaert Aktiengesellschaft. Photographic layers containing compounds which absorb ultraviolet light. 3,687,671, 8-29-72, Cl. 96-84.00r.

Kreula, Matti S.: *See—*
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Kreuschmer, Rudolf. Device on cutting facilities for packing machines. 3,668,965, 6-13-72, Cl. 83-476.000.

Kreuschmer, Rudolf. Inprinter apparatus for use on packaging machines or the like. 3,683,798, 8-15-72, Cl. 101-27.000.

Kreuter, Kenneth G.: *See—*
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Kreuter, Kenneth G., to Robertshaw Controls Company. Pneumatically operated actuator. 3,691,906, 9-19-72, Cl. 91-222.000.

Kreuter, Walter. Method of treatment of cocoa butter-containing molten chocolate mass. 3,638,553, 2-1-72, Cl. 99-23.

Kreutter, Erich, to ITT Industries, Inc. Female connector strip with interchangeably retained contact springs. 3,701,967, 10-31-72, Cl. 339-217.00s.

Kreutzberger, Gunter: *See—*
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Kreutzweiser, Charles E., to Electrohome Limited. Container. 3,652,142, 3-28-72, Cl. 312-8.

Kreuz, John Anthony; and Roper, Don Albert, said Kreuz assor. to Du Pont de Nemours, E. I., and Company. Laminar structures of polyimides. 3,684,646, 8-15-72, Cl. 161-165.000.

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Kreuzer, Justin L., to Perkin-Elmer Corporation, The. Comparing position and configuration of an object with a standard. 3,631,711, 1-4-72, Cl. 73-67.5.
Kreuzer, Lloyd Barton, to Bell Telephone Laboratories, Incorporated. Measurement of gas impurity concentration by infrared absorption spectroscopy. 3,700,890, 10-24-72, Cl. 250-43.50r.
Krewitt, Alfred: *See—*
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Krey, Roger A. Method of making ceramic electrical device. 3,701,578, 10-31-72, Cl. 316-19.000.
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Kribbe, Heinrich: *See—*
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Kribbe, Kurt Willi Harris; deceased (by Kribbe, Gertrud Katharina, nee Handardt; Kribbe, Heinrich; Kribbe, Edith, nee Kukrt; Harnisch, Heinz; and Cremer, Joseph; heirs), to Knapsack-Griesheim Aktiengesellschaft. Method for producing alkali metal and/or alkli earth-metal phosphates. 3,655,334, 4-11-72, Cl. 23-106.
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Krieb, Karl Heinz; and Zimmermann, Fritz, to Steinkohlen-Elektrizitat Aktiengesellschaft. Control system for a gas-turbine installation. 3,704,587, 12-5-72, Cl. 60-39.030.
Kriedt, Frederick A. Water expulsion system. 3,670,680, 6-20-72, Cl. 114-16.00r.
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Kriellaars, Johannes Cornelius, to CAE Industries Ltd. Moisture measurement of grain. 3,691,457, 9-12-72, Cl. 324-61.00r.
Krier, Philipp; and Fendler, Lothar, to Mirabed AG., mesne. Method of making an upholstered body. 3,660,876, 5-9-72, Cl. 29-91.
Kriesten, Horst, to Licentia Patent-Verwaltungs-G.m.b.H. Apparatus for testing the blade anchorage of turbine blades. 3,690,160, 9-12-72, Cl. 73-95.000.
Kriete, Horst, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Hydraulic directional control valves. 3,638,683, 2-1-72, Cl. 137-624.27.
Krieve, Walter F., to TRW Inc. Phase separator. 3,636,720, 1-25-72, Cl. 62-49.
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Rasmussen, Torben Borup, 3,669,778.
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Kruck, Henry: *See—*
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Kruck, Peter: *See—*
Krafft, Werner; Kruck, Peter; Meyer, Rudolf; and Scheibitz, Maria, 3,690,885.
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Kruckewitt, Wilfried, to Aktiengesellschaft Brown, Boveri & Cie. Arc chute for electrical switch apparatus. 3,649,791, 3-14-72, Cl. 200-144.
Kruczek, Chester R., to General Instrument Corporation. Frequency selecting modular component and assembly formed therefrom. 3,644,848, 2-22-72, Cl. 333-70.
Krueger, A. H., Inc.: *See—*
Krueger, Alfred H., 3,664,618.
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Krueger, Archie S.; and Slye, Norman J., to Alwin Manufacturing Company, Inc. Dispenser for web of perforated toweling sheets. 3,672,552, 6-27-72, Cl. 226-129.000.
Krueger Associates: *See—*
Krueger, Eugene C., 3,672,055.
Krueger, August G. Dispensing holder for rolled sheet material. 3,633,838, 1-11-72, Cl. 242-55.53.
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Krueger, Harvey R.: *See—*
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Krueger, James Elwood: *See—*
Sieger, George Madison; Krueger, James Elwood; and Barringer, William Charles, 3,642,991.
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Willson, James R.; and Krueger, Keith T., 3,645,443.
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Hendrickson, Philip J.; and Resch, Richard J., 3,704,850.
Weagle, James A., 3,695,567.
Krueger, Paul C. Sequence electronic combination lock. 3,673,466, 6-27-72, Cl. 317-134.000.
Krueger, Paul C., to Air Products and Chemicals, Inc., mesne. Preparation of inorganic polymers. 3,681,265, 8-1-72, Cl. 260-2.00p.
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Krueger, William R.: *See—*
Cavil, David T.; Krueger, William R.; and Schmidt, Henry J., 3,662,243.
Kruer, Clifford W.; and Frazier, John R., to National Cash Register Company, The. Step motor and control circuit therefor. 3,660,747, 5-2-72, Cl. 318-696.
Kruer, Harold H., to Teledyne Mid-America Corporation. Mounting assembly for rectifiers. 3,636,415, 1-18-72, Cl. 317-234.
Kruesi, Paul R., to Cyprus Metallurgical Processes Corporation. Process for the recovery of metals from sulfide ores through electrolytic dissociation of the sulfides. 3,673,061, 6-27-72, Cl. 204-105.00r.
Krug, Charles C. Pull rope friction type exercising device. 3,674,261, 7-4-72, Cl. 272-79.00a.
Krug, Hans-Dietrich, to Freudenberg, Carl. Process for the manufacture of foam-plastic articles covered with a protective film. 3,655,840, 4-11-72, Cl. 264-45.
Krug, Newton J.; McClain, Richard B.; and Shoop, James D., to Diebold, Incorporated. Entry resistant security file construction. 3,637,277, 1-25-72, Cl. 312-217.
Krug, Pavel, to Hardman & Holden Limited. Process for dyeing or printing acrylonitrile copolymer textile materials with vat dyestuffs. 3,632,293, 1-4-72, Cl. 8-34.
Kruger, Bruno Otto; and Waites, James Wilson, Jr., to Borden, Inc. Method for the manufacture of vinyl esters. 3,652,659, 3-28-72, Cl. 260-498.
Kruger, Erwin, to Ludwig Verpackungen Zach. Apparatus for making hollow plastic articles. 3,692,454, 9-19-72, Cl. 425-355.000.
Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, to Boehringer Ingelheim G.m.b.H. Halo-substituted 2-amino-benzylamine-morpholides and salts thereof. 3,661,903, 5-9-72, l. 260-247.2.
Kruger, Gunther, to American Home Products Corporation. 8,19-Epoxy-$\Delta^{4,6}$-3-ketosteroids and intermediates for their synthesis. 3,637,667, 1-25-72, Cl. 260-239.55.
Kruger, Gunther, to Steele Chemicals Company Limited. Process for the preparation of 3α-hydroxy-5β-pregnan-20-one. 3,647,829, 3-7-72, Cl. 260-397.4.
Kruger, Gunther; and Burford, Robert G., to Bio-Research Laboratories Ltd. Estradiol 3-propargyl ether 17-trichloroacetate. 3,658,855, 4-25-72, Cl. 260-397.5.
Kruger, Heinz: *See—*
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Kruger, I., A/S: *See—*
Bye-Jorgensen, Jorgen Steen; and Larsen, Gunnar Hartvig, 3,658,182.
Kruger, James B.; and Cooper, Joseph, to Scovill Manufacturing Company. Covered button. 3,648,331, 3-14-72, Cl. 24-113.
Kruger, Joachim; Schabert, Hans-Peter; Schubert, Franz; and Weber, Robert, to Siemens Aktiengesellschaft. Loading device for fuel elements and control rods in a nuclear reactor. 3,691,011, 9-12-72, Cl. 176-30.000.
Kruger, Michael H., to Smithcraft Corporation. Ceiling fixture support. 3,664,615, 5-23-72, Cl. 248-27.
Kruger, Michael H., to Keene Corporation. Air distribution apparatus. 3,699,872, 10-24-72, Cl. 98-40.00d.
Kruger, Seigfried, to Schering A.G. Berlin und Bergkamen. Pneumatic digital-to-analog converter with storage. 3,684,166, 8-15-72, Cl. 235-200.000.
Kruger, Stanley. Clasp for bracelets and the like. 3,665,565, 5-30-72, Cl. 24-265.
Kruger, William P., to Hewlett-Packard Company. Automated vacuum port. 3,699,997, 10-24-72, Cl. 137-32.00d.
Kruger, Wolfgang: *See—*
Dietrich, Manfred; Eger, Helmut; Neubert, Eckart; and Kruger, Wolfgang, 3,689,332.
Kruggel, Roy W., to Whirlpool Corporation. Series water cooling circuit for gas heat pump. 3,638,452, 2-1-72, Cl. 62-485.
Kruglikov, Anatoly Abramovich; Nikolaeva, Militina; Vilker, Simon Borisovich; and Detkov, Viktor Vasilievich. Method of producing liquid water-soluble urea-formaldehyde resins employing an aryl or alkyl sulfonic acid. 3,689,463, 9-5-72, Cl. 260-70.00r.
Kruglinski, Frank A.; and Miller, Joseph A., to General Corrugated Machinery Co., Inc. Apparatus for making corrugated paper board. 3,654,032, 4-4-72, Cl. 156-470.
Kruiger, Kornelis, to N.V. Offringa. Method and apparatus for determining the relative proportions by weight of asphalt components. 3,686,959, 8-29-72, Cl. 73-432.00r.
Kruisman, Gerard: *See—*
Rutten, Hendrikus S.; Kruisman, Gerard; de Groot, Johan; Westra, Simon; and Bavelaar, Abraham P., 3,651,525.
Kruka, Vitold R.; and Meier, Dale J., to Shell Oil Company. Process of reducing friction loss in flowing hydrocarbon liquids and compositions thereof. 3,687,148, 8-29-72, Cl. 137-13.000.
Kruklitis, Karlis, to Burroughs Corporation. Dynamic threshold voltage determination system. 3,668,634, 6-6-72, Cl. 340-146.3ag.
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Krul, Leendert Gerardus: *See—*
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Krulik, Zdenek: *See—*
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Krull, Ernst: *See—*

Hofmann, Erich; Krull, Ernst; Johannsen, Werner Hans; Oberheim, Robert; and Scheibel, Josef, 3,669,534.

Krull, Irwin H.: *See—*
Cosgrove, Richard E.; Krull, Irwin H.; and Mask, Charles A., 3,706,649.

Krull, Maynard J., to Davis and Furber Machine Company. Clutch and brake construction for spinning and twisting frames. 3,687,252, 8-29-72, Cl. 192-18.00b.

Krumanacker, Berton P.: *See—*
Desmond, Timothy J.; and Krumanacker, Berton P., 3,660,179.

Krumel, Karl L; and Dewald, James R., to Dow Chemical Company, The. Selective chlorination of benzene and chlorobenzene using a catalyst of aluminum chloride and stannic chloride or titanium tetrachloride. 3,636,171, 1-18-72, Cl. 260-650.

Krumholz, Frank C., to Allis-Chalmers Manufacturing Company. Planter and method of preparing soil. 3,701,327, 10-31-72, Cl. 111-81.000.

Krumkalns, Eriks V.; and Taylor, Harold M., to Lilly, Eli, and Company. Plant growth control. 3,655,359, 4-11-72, Cl. 71-94.

Krumling, Fritz: *See—*
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Krummel, Harry Karl: *See—*
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Krummen, Eugene V.: *See—*
Goodrich, Calvin C.; and Krummen, Eugene V., 3,703,067.

Krumpholz, Oskar: *See—*
Borner, Manfred; Maslowski, Stefan; and Krumpholz, Oskar, 3,704,996.

Krumreich, Charles L.: *See—*
Hardesty, Edwin C.; Krumreich, Charles L.; Mulbarger, Albert E., Jr.; and Walen, Stephen W., 3,699,498.

Krumreich, Jack E.: *See—*
Cox, Frederick L.; and Krumreich, Jack E., 3,671,711.

Krumrey, Alfred, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Arrangement for unloading material from a dredge. 3,650,415, 3-21-72, Cl. 214-10.

Kruntorad, Vlastimil: *See—*
Chromecek, Richard; Meinhold, Leopold; Otoupalova, Jaroslava; and Kruntorad, Vlastimil, 3,632,381.

Krup, Donald E., to Karma Division of Brandt Automatic Cashier Company. Apparatus for producing a beverage by mixing a powdered base including sugar and a cold liquid. 3,671,020, 6-20-72, Cl. 259-10.000.

Krupa, John Eugene, to United States of America, Air Force. Gated oscillator. 3,662,286, 5-9-72, Cl. 331-108.

Krupa, John Eugene; and Paglee, Mario Robert, to RCA Corporation. Field effect transistor modulator circuit. 3,668,561, 6-6-72, Cl. 332-31.

Krupa, Thomas J., to Delaware Valley Armaments, Inc. Timing mechanism. 3,670,655, 6-20-72, Cl. 102-79.000.

Krupen, Ira; and Gilman, Marvin A., to Marsal Crafts, Inc. Device for preventing access to an operating part. 3,693,383, 9-26-72, Cl. 70-232.000.

Kruper, Andrew P., to Westinghouse Electric Corporation. Single phase motor starting control apparatus. 3,671,830, 6-20-72, Cl. 318-221.00e.

Krupey, John Henry: *See—*
Freedman, Samuel Orkin; Gold, Phil; and Krupey, John Henry, 3,663,684.

Krupick, Walter J.; Pilger, Allan B.; and Dickie, Robert J., to Singer Company, The, mesne. Shock and vibration isolator and damping system. 3,661,375, 5-9-72, Cl. 267-137.000.

Krupin, Alexandr Leonidovich: *See—*
Kuznetsov, Lev Vasilievich; Slavinsky, Zunya Mikhalevich; Kalachev, Vasily Alexeevich; Krupin, Alexandr Leonidovich; Aristarkhov, Nikolai Alexandrovich; Popkov, Eduard Jurievich; Trutnev, Vladimir Alexandrovich; and Bulychev, Nikolai Petrovich, 3,704,496.

Krupka, Ronnie W., to Electronic Control Corporation. True RMS voltage regulator. 3,649,905, 3-14-72, Cl. 323-22.

Krupka, Ronnie W., to ECC Corporation. RMS voltage or current sensor. 3,696,294, 10-3-72, Cl. 324-105.000.

Krupke, William F., to Hughes Aircraft Company. Method of Q-switching and mode locking a laser beam and structure. 3,638,137, 1-25-72, Cl. 331-94.5.

Krupotich, Edward A., to Bell & Howell Company. Mail weighing and sorting machine. 3,643,798, 2-22-72, Cl. 209-74.

Krupp, Carroll P., to Goodrich, B. F., Company, The. Sealing closure. 3,668,745, 6-13-72, Cl. 24-205.100.

Krupp, Carroll P., to Goodrich, B. F., Company, The. Continuous strip molding apparatus. 3,669,585, 6-13-72, Cl. 18-4.00b.

Krupp, Charles E.: *See—*
Roth, Grant V. W.; and Krupp, Charles E., 3,653,260.

Krupp, David M.: *See—*
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Krupp, Myron J.; Colburn, Frederick R.; and Knudtson, John P., to PPG Industries, Inc. Use of barium metaborate in electrodepositable compositions. 3,645,871, 2-29-72, Cl. 204-181.

Krupp, Robert F.; and Miller, Stanley J., to National Can Corporation. Vented curl for aerosol dome. 3,679,091, 7-25-72, Cl. 220-67.000.

Kruppa, Robert W.; Weber, Edward V.; and Woodard, Ollie C., to International Business Machines Corporation. Method and apparatus for controlling an electron beam. 3,644,700, 2-22-72, Cl. 219-121.

Krups, Robert, Solingen-Wald, Firma: *See—*
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Krusche, Alfred: *See—*
Forster, Franz; Krusche, Alfred; and Hantelmann, Gunter, 3,698,415.

Krusche, Alfred; and Rosslein, Helmuth, to Linde Aktiengesellschaft. Control system for a stepless hydrostatic drive. 3,672,161, 6-27-72, Cl. 60-19.000.

Krusche, Alfred, to Linde Aktiengesellschaft. Overload system for a hydrostatic-drive apparatus. 3,685,290, 8-22-72, Cl. 60-53.0ww.

Krusche, Kurt; and Zimmermann, Hubert, to Allstar Verbrauchsgueter GmbH & Co., KG. Fabric brush. 3,680,169, 8-1-72, Cl. 15-171.000.

Krusche, Kurt; and Zimmermann, Hubert, to Allstar Verbrauchsguter GmbH & Co. KG. Brush with clamped handle. 3,683,443, 8-15-72, Cl. 15-177.000.

Krusche, Kurt R. Two-sided handle brush. 3,691,586, 9-19-72, Cl. 15-106.000.

Kruschwitz, Werner, to Draftex, GmbH. Protective sealing strip. 3,638,359, 2-1-72, Cl. 49-490.

Kruse, Clemens A., Jr. Cylindrical surface finishing tool. 3,656,333, 4-18-72, Cl. 72-122.

Kruse, Ferderick W., Jr. Fuel reservoir with filling signal. 3,684,127, 8-15-72, Cl. 220-86.00r.

Kruse, Frederick V.; and Pichon, James D., to Ag-Rain, Inc. Hose coupler. 3,695,632, 10-3-72, Cl. 285-5.000.

Kruse, Harry F.: *See—*
Frump, John A.; and Kruse, Harry F., 3,687,888.

Kruse, Jurgen M.; and Wyman, John E., to Itek Corporation. Process for coating substrates with polyethylene and products produced thereby. 3,700,495, 10-24-72, Cl. 117-104.00r.

Kruse, Magdalena: *See—*
Epple, Paul; and Kruse, Magdalena, 3,635,181.

Kruse, Uno; Herman, Daniel F.; and Wilsher, Rudolph S, to N L Industries, Inc. Clear coating system comprising an isocyanate cured terpolymer. 3,681,289, 8-1-72, Cl. 260-77.5cr.

Kruse, Walter M., to Hercules Incorporated. Epoxidation of olefins with thallic carboxylates. 3,641,067, 2-8-72, Cl. 260-348.5.

Kruse, Werner, to Daimler-Benz Aktiengesellschaft. Measurement-sensing device for determining a rotational speed or rotational speed change, preferably of vehicle wheels. 3,683,219, 8-8-72, Cl. 310-168.000.

Krusemark, Frederick A., to Borg-Warner Corporation. Dual ratio master cylinder. 3,631,676, 1-4-72, Cl. 60-54.6.

Kruszona, Edward G.: *See—*
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Krutenat, Richard C., to United Aircraft Corporation. Vapor randomization in vacuum deposition of coatings. 3,639,151, 2-1-72, Cl. 117-93.4.

Kruthaupt, Charles H. Exercising apparatus. 3,701,529, 10-31-72, Cl. 272-83.00r.

Krutis, Edward V., to Allis-Chalmers Manufacturing Company. Steer axle with longitudinal adjustment. 3,702,196, 11-7-72, Cl. 280-111.000.

Krutsinger, Ralph W., Jr.: *See—*
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Krutz, Ronald L.; and Irwin, Thomas J. Pulsing mechanism. 3,686,507, 8-22-72, Cl. 307-106.000.

Krutz, Ronald L.; and Villella, Thomas J. Successive addition utilizing a bistable latch. 3,707,621, 12-26-72, Cl. 235-174.000.

Kruyer, Jan, to Research Council of Alberta. Method of transporting a substance along a pipeline. 3,633,976, 1-11-72, Cl. 302-2.

Kruyt, Willem: *See—*
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Kruzel, Mitsie W.: *See—*
Jurkowski, Chester P.; and Kruzel, Mitsie W., 3,667,343.

Kruzewski, William Frank; and Siwko, Karol, to GTE Sylvania Incorporated. Automatic frequency control circuitry for a varactor tuner system. 3,699,455, 10-17-72, Cl. 325-423.000.

Kruzic, Zelco J., to Westinghouse Electric Corporation. Combination motor starter. 3,638,157, 1-25-72, Cl. 337-6.

Krylov, Nikolai Ivanovich: *See—*
Zhukov, Gennady Konstantinovich; Krylov, Nikolai Ivanovich; Lebedev, Vyacheslav Ivanovich; Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Vasilenko, Sergei Iosifovich; Kondratiev, Valentin Vasilievich; and Krokhin, Neste Ivanovich, 3,633,397.

Krylov, Sergei Sergeevich; Starykh, Nadezhda Timofeevna; Chigarev, Alexandr Grigorievich; and Eltsov, Andrei Vasilievich. Drug of adreno-blocking action. 3,639,609, 2-1-72, Cl. 424-274.

Krylov, Vsevolod Semenovich; Popkov, Ivan Nikolaevich; Magunov, Robert Leonidovich; Puring, Mikhail Nikolaevich; Bagdasarov, Khachatur Saakovich; Tsagina, Raisa Fedorovna; and Popov, Viktor Innokentievich. Method of producing orthovanadates of rare-earth mtals. 3,667,901, 6-6-72, Cl. 23-19.

Kryman, Frederick J., to Eastman Kodak Company. Heterogeneous photoconductor composition formed by low-temperature conditioning. 3,679,406, 7-25-72, Cl. 96-1.600.

Kryman, Frederick J.; and Staudenmayer, William J., to Eastman Kodak Company. Heterogeneous photoconductor composition formed by two-stage dilution technique. 3,679,408, 7-25-72, Cl. 96-1.600.

Krynock, Robert A.; and Ruhe, Robert W., Jr., to FMC Corporation. Vibrating screen for fine screening of liquids. 3,666,095, 5-30-72, Cl. 209-254.000.

Krynski, John E.; and Seggebruch, Ernie G., to Ametek, Inc. Plastic filter leaf with separator channels. 3,648,844, 3-14-72, Cl. 210-487.

Krynytzky, Alexander; Schott, Arthur K.; and Hoffmann, Otto, to Houdaille Industries, Inc. Punching machine. 3,656,392, 4-18-72, Cl. 83-530.

Krysiak, Joseph E.: *See—*
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Krystyniak, Casimir W., to General Electric Company. Free-flowing plasma spray powder. 3,645,894, 2-29-72, Cl. 252-1.

Krywitsky, Leo L.: *See—*
Krywitsky, Leo L.; and Morrow, Robert S. (said Morrow assor. to), 3,662,804.

Krywitsky, Leo L.; and Morrow, Robert S., said Morrow assor. to Krywitsky, Leo L. Self-locking fasteners. 3,662,804, 5-16-72, Cl. 151-14.

Krzewinski, Robert J.; and Kirchgessner, Henry J., to Rev Master Industries, Inc. Wrist support and polar pad for bowling. 3,704,994, 12-5-72, Cl. 273-54.00b.

Krzycki, Leroy J., to United States of America, Navy. Prepackaged liquid rocket powerplant feed system. 3,668,868, 6-13-72, Cl. 60-39.480.

Krzyston, Michael J. Decorative lighting apparatus. 3,634,679, 1-11-72, Cl. 240-10.1.

Krzyzanowski, Erich: *See—*
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Krzyzanowski, Erich, to Grunzweig & Hartmann Aktiengesellschaft. Apparatus for making castings. 3,678,989, 7-25-72, Cl. 164-246.000.

Krzyzanowski, Robert A., to Milprint, Inc. Carton with pull-spout wall construction. 3,672,557, 6-27-72, Cl. 229-17.00r.

Ksenzenko, Vladimir: *See—*
Zagorskaya, Maina Konstantinovna; Vulikh, Alexandr Ilich; Mekler, Lev Izrailevich; and Ksenzenko, Vladimir, 3,653,811.

Ksieski, Kazimierz T., to Parker-Hannifin Corporation. Shaft packing assembly. 3,645,543, 2-29-72, Cl. 277-58.

KTM Industries, Inc., mesne: *See—*
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Kuba, Jaromir: *See—*
Buran, Vojtech; Kuba, Jaromir; Uncovsky, Adolf; and Zouhar, Karel, 3,638,489.
Buran, Vojtech; Kuba, Jaromir; Uncovsky, Adolf; and Zouhar, Karel, 3,683,178.

Kubach, Hans; and Leberl, Gerfried, to Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig. Method and arrangement for automatically positioning a piston as a function of rotor position in a piston motor. 3,704,589, 12-5-72, Cl. 60-54.50r.

Kubach, Reinhold W.: *See—*
Hoeffel, James D.; and Kubach, Reinhold W., 3,673,607.

Kubacki, Jerzy K.: *See—*
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Kubala, Robert, to Motorola, Inc. Current control circuit for operating a deflection yoke. 3,659,141, 4-25-72, Cl. 315-18.

Kubanek, Anne-Marie Margaretha; and Kim, Young Chul, to Allied Chemical Corporation. Racemization of D- or L-A-amino-caprolactam in the presence of metal ions. 3,692,775, 9-19-72, Cl. 260-239.30r.

Kubanek, Anne-Marie W., to Allied Chemical Corporation. Novel alkoxy-substituted Schiff bases. 3,639,480, 2-1-72, Cl. 260-566.

Kubanek, Vladimir: *See—*
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Kubanoff, Jacob H., to United States of America, Army. Fixed target detector for use with doppler radar. 3,665,463, 5-23-72, Cl. 343-5.00r.

Kubasta, James W., to Shell Oil Company. Breakaway pipe coupling. 3,659,877, 5-2-72, Cl. 285-3.

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Kull, Francis R., to Standard Pressed Steel Co. Method of making self-locking fasteners. 3,634,577, 1-11-72, Cl. 264-267.
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Kulrestha, Girandra Narain; and De Roch, Irenee Seree, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process for producing adipic acid. 3,657,334, 4-18-72, Cl. 260-531.
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Kumm, John H. Resistage candle device. 3,706,523, 12-19-72, Cl. 431-126.000.
Kummant, Karl E., to United States Steel Corporation. Method and apparatus for continuously casting hollow rounds. 3,661,196, 5-9-72, Cl. 164-85.
Kummer, Charles K., to Ralston Purina Company. Sample cartridge filling and closing apparatus. 3,691,723, 9-19-72, Cl. 53-271.000.
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Kun, Zoltan K., to Zenith Radio Corporation. Methods of producing p-typeness and p-n junctions in wide band gap semiconductor materials. 3,705,059, 12-5-72, Cl. 148-175.000.
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Kunda, Wasyl; and Campbell, Finlay, to Sherritt Gordon Mines Limited. Production of metal powder by direct reduction from aqueous solutions. 3,694,185, 9-26-72, Cl. 75-.50a.
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Fehrenbacher, Wolfgang, 3,685,280.
Kundo, Kishichiro; Iwata, Hiroo; Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, to Kabushiki Kaisha Ricoh and Toa Gosei Chemical Industry Co., Ltd. Electrophotographic copying material and process of producing thereof. 3,640,709, 2-8-72, Cl. 96-1.5.
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Kung, Frederick E., to PPG Industries, Inc. Hydrofluorination of acetylenic unsaturates to produce olefin fluorides. 3,646,230, 2-29-72, Cl. 260-653.4.
Kuniaki, Hakamada: *See*—
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Kunioka, Kazuo; Shimizu, Shigenari; and Hirata, Masaru, to Nippon Kokan Kabushiki Kaisha. Method for cooling steel materials. 3,659,428, 5-2-72, Cl. 62-64.000.
Kunishi, Takeshi; Kawade, Yoshihiro; Yamakita, Koiti; Takaki, Ryozo; and Yamanaka, Katuhiro, to Nippon Denso Kabushiki Kaisha. Housing for enclosing instruments and the like to be mounted on front instrument panel of compartment of automobile. 3,635,305, 118-72, Cl. 180-90.
Kunishima, Norihiko: *See—*
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Kunke, Arthur; Reinhardt, Dieter; and Glass, Waldemar, to Huppe, Justin. Automatic control of venetian blinds in response to both heat and light being below respective threshold values. 3,675,023, 7-4-72, Cl. 250-206.000.
Kunkel, Ernest O.: *See—*
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Kunkel, Ernst, to Guenther Wagner Pelikan-Werke. Transfer set incorporating colour reaction sheets. 3,682,681, 8-8-72, Cl. 117-36.200.
Kunkel Roland Keith; and Munro, John Galvin. Multicomponent filamentary material formed from waste material. 3,684,648, 8-15-72, Cl. 161-175.000.
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Kunkle, Albert C.: *See—*
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Kunkle, George E., Jr. Apparatus for producing wall panels. 3,641,645, 2-15-72, Cl. 29-200.
Kunkle, Gerald E., to PPG Industries, Inc. Glass melting furnace. 3,658,505, 4-25-72, Cl. 65-337.
Kunkle, Gerald E.; and Heidish, William E., to PPG Industries, Inc. Process and apparatus for separating foam from a molten body of glass. 3,666,432, 5-30-72, Cl. 65-27.000.
Kunkle, James Raymond: *See—*
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Kuno, Hiromu J.; Berson, Bertrand E.; and Reynolds, James F., to United States of America, Air Force, mesne. Push-pull transferred electron oscillator. 3,668,552, 6-6-72, Cl. 331-100.000.
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Kuno, Syozo, to Aisin Seiki Kabushiki Kaisha. Friction disc clutch for vehicles. 3,707,211, 12-26-72, Cl. 192-113.00a.
Kunogi, Mahito, to Meiki Seisakusho, Ltd. Plastic injection molding apparatus. 3,655,313, 4-11-72, Cl. 425-130.
Kunov, Hans, said Kunov assor. to Gordon, Peter L. Alcohol level indicator. 3,673,979, 7-4-72, Cl. 116-129.000.
Kunst, Bernhard, to GHH-M.A.N. Technik Gesellschaft fur Anlagenbau m.b.H., mesne. Vertical multi-stage flash evaporation and direct contact condensation. 3,649,471, 3-14-72, Cl. 203-11.
Kunst, Detlef: *See—*
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Kunst, Detlef, to Olympia Werke AG. Blocking device for the carriage of typewriters and similar machines. 3,700,088, 10-24-72, Cl. 197-120.000.
Kunst, Helmut, to Elektroschmelzwerk Kempten G.m.b.H. Process for borating metals, especially steel. 3,673,005, 6-27-72, Cl. 148-6.000.
Kunstadt, George H. Data head actuation apparatus and circuit. 3,648,263, 3-7-72, Cl. 340-174.1.
Kunstharsfabriek Synthese N.V.: *See—*
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Kunstle, Gerhard; Spes, Hellmuth; and Trommet, Alfred, to Wacker-Chemie G.m.b.H. Process for producing bis-(dimethylamino)-phosphoryl fluoride. 3,637,840, 1-25-72, Cl. 260-543.
Kunstle, Gerhard; and Liberda, Heinz, to Wacker-Chemie G.m.b.H. Process for continuously producing pure sorbic acid. 3,696,147, 10-3-72, Cl. 260-526.00n.
Kunstmann, Martin Paul; and Porter, John Norman, to American Cyanamid Company. Antibiotic AM374 and method of production using streptomyces eburosporeus. 3,700,768, 10-24-72, Cl. 424-118.000.
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Kurokawa, Takaaki; Yamada, Junji; and Wada, Makoto, to Tokyo Shibaura Denki Kabushiki Kaisha. Apparatus for blow molding glass bulbs. 3,667,927, 6-6-72, Cl. 65-185.000.
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Kurtz, Leonard D., to Sutures, Inc. Sutures having long-lasting germicidal properties. 3,642,003, 2-15-72, Cl. 128-335.5.
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Kurtz, Stewart Kendall, to North American Philips Corporation. Photo electric switching device. 3,697,762, 10-10-72, Cl. 250-239.000.
Kurtz, Thomas D., to Kurtz Enterprises, Inc. Floor to ceiling wall mirror fastening clip. 3,680,822, 8-1-72, Cl. 248-475.000.
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Kurz, Fredrik Wilhelm Anton. Bonding or impregnating composition. 3,707,386, 12-26-72, Cl. 106-84.000.

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Kurz, Jurgen; Kolling Heinrich; and Federmann, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. 1,3-Benzoxazines. 3,697,517, 10-10-72, Cl. 260-244.00r.

Kurz, Leonard D.; and Shave, William H., to Deknatel, Inc. Suture package. 3,642,126, 2-15-72, Cl. 206-63.3.

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Skulsky, Jury Valentinovich; Boretsky, Vasily Grigorievich; Sakharnov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievih; Schukin, Pavel Ivanovich; Danilkiv, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamovich; and Sokirko, Vasily Andreevich, 3,657,962.

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Kustom Signal, Inc.: *See—*
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Kusuda, Zenji: *See—*
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Kuter, Daniel Marie. Methods of building. 3,662,044, 5-9-72, Cl. 264-34.
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Kuykendall, James H., to TRW Inc. Regenerative voltage regulators. 3,641,424, 2-8-72, Cl. 323-17.

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Kuzmik, John J.: *See—*
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Kvalheim, Andrew M.; and Wassem, Howard M., to Aim Products, Inc. Universal molding strip for trimming. 3,671,369, 6-20-72, Cl. 161-40.000.

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Kveglis, Albert A.: *See—*
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Kwake, John P., to Kydar Company, The. Inflatable enclosure for swimming pools and the like. 3,676,880, 7-18-72, Cl. 4-172.120.

Kwako, Stanley J. Holder. 3,684,224, 8-15-72, Cl. 248-87.000.

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Kwiatkowski, Wolfgang, to Agfa-Gevaert Aktiengesellschaft. Apparatus for treating roll film or the like in liquid baths. 3,691,926, 9-19-72, Cl. 95-94.00r.

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Kwikform Limited: *See—*
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Kyburz, Emilio; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. 1,10(or 11)-Dihalo-5-(3-dimethylaminopropyl or -propylidene)-5H-dibenzo [a,d] cycloheptene N-oxides. 3,632,857, 1-4-72, Cl. 260-570.8.

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La Beck, Keith E., to Esco Corporation. Log grapple. 3,697,115, 10-10-72, Cl. 294-88.000.
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La Neve, Angelo L., to ALN Enterprises. Beverage mixer and dispenser. 3,664,643, 5-23-72, Cl. 259-44.
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La Valle, Thomas A., to Western Electric Company, Incorporated. Apparatus for assembling electrical components. 3,706,122, 12-19-72, Cl. 29-203.00d.
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Labastrou, Roger, to Jacques Guillon/Designers Inc. Method of making a joinery joint. 3,664,011, 5-23-72, Cl. 29-526.
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LaFont, Guy, to Schlumberger Technology Corporation. Telemetry system incorporating synchronization of receiver with transmitter. 3,707,700, 12-26-72, Cl. 340-18.000.

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Lagain, Georges. Apparatus for driving a sheath at variable and automatically adjustable speed in a machine for making plastic bags. 3,645,430, 2-29-72, Cl. 226-40.

Lagally, Paul, to United States of America, Navy. Bearings comprising polyolefins and an imine modified carbon black compound. 3,697,425, 10-10-72, Cl. 252-12.000.

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Lagally, Ralph W.: *See—*
Joyce, Thomas P., Jr.; Lagally, Ralph W.; and Schulz, Johann G. D., 3,671,579.

Lagana, Joseph A., to Chandler Evans Inc. Supersonic diverter. 3,690,337, 9-12-72, Cl. 137-81.500.

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Lage, Jaime Richard, to Haskett, F. Barry. Device for continuous mixing of materials. 3,661,364, 5-9-72, Cl. 259-95.

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Bergqvist, Mats Soren; Kallstrom, Olof Krister; Lagerberg, Per Goran Olof; and Okvist, Nils Axel Gunnar, 3,664,825.

Lagercrantz, Bengt Ake; and Andersen, Kare, to Telefonaktiebolaget L M Ericsson. Anhydrous electrolyte for electrolytic capacitors. 3,696,037, 10-3-72, Cl. 252-62.200.

Lagergren, Hans Ragnar: *See—*
Eriksson, Jan Christer; Lagergren, Hans Ragnar; Johansson, Anders Lennart; and Gillberg, Eisa, 3,634,123.

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Lagier, Gary G.; and Fuess, Raymond L., to Omnific Research and Development Center, Inc. Metal recovery apparatus and method. 3,658,683, 4-25-72, Cl. 204-272.

Laglenne, Renee: *See—*
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Lagler, Karl R.: *See—*
Kerr, Archie F.; and Lagler, Karl R., 3,652,819.

Lagofun, Guy Jean Theodore, to Etat Francais represents par le Ministre charge de la Defense Nationale Delegation Ministerielle pour l' Armement. Arc igniter circuit closing device and methods of operation thereof. 3,704,354, 11-28-72, Cl. 200-144.00r.

Lagos, Costas, to Sylvania Electric Products, Inc. Phosphor and method of making. 3,647,706, 3-7-72, Cl. 252-301.4.

Lagos, Costas C.; Fowler, Richard A.; and Thomas, Martha J. B., to Sylvania Electric Products, Inc. Process for reclaiming yttrium orthovanadate phosphors. 3,668,140, 6-6-72, Cl. 252-301.40r.

Lagoutte, Pierre, to Filtres Vernay. Moving bed apparatus for the treatment of fluid. 3,667,604, 6-6-72, Cl. 210-136.

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Lagrange, Alain; Nicolas, Jean; and Sroussi, Roland, to Thomson-CSF. Magnetic garnets. 3,657,131, 4-18-72, Cl. 252-62.57.

Lagrange, Jean; and Letournel, Emile. Total knee joint prosthesis. 3,688,316, 9-5-72, Cl. 3-1.000.

LaGrutta, Pascal A., to Container Corporation of America. Coining structures for injection-blow moulding apparatus. 3,659,995, 5-2-72, Cl. 425-242.

Lagstrom, Goran Emil. Electric toilet. 3,633,220, 1-11-72, Cl. 4-131.

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Laguerre, Leon Ker, to Minigrip, Inc. Apparatus for assembling a slider on a fastener strip. 3,701,191, 10-31-72, Cl. 29-207.5sl.

Laguerre, Leon Ker, to Minigrip, Inc. Mechanism for assembling sliders on interlocking fastener strips. 3,701,192, 10-31-72, Cl. 29-207.5sl.

Laguinia, Enrique L. Liquid fuel burner. 3,650,661, 3-21-72, Cl. 431-328.

Lagus, Peter: *See—*
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Laguzzi, Umberto. Benzylisoquinolinic solutions and method of making the same. 3,692,910, 9-19-72, Cl. 424-258.000.

Lahay, Charles Arthur, to International Paper Company. Device for organizing objects. 3,696,920, 10-10-72, Cl. 206-63.20r.

Lahay, James F., to Sherwood Medical Industries Inc. Method of determining the presence of cystic fibrosis. 3,635,213, 1-18-72, Cl. 128-2.

Lahaye, Raymond, to Societe d'Instrumentation Schlumberger. Turbine-type volumetric flowmeters. 3,686,948, 8-29-72, Cl. 73-230.000.

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Lahde, Reinhard N., to Lockheed Aircraft Corporation. Brushless D.C. motor driven gyroscope. 3,664,199, 5-23-72, Cl. 74-5.6.

Lahm, James; and Hill, Robert D., Jr., to Spectrol Electronics Corporation. Trimmer potentiometer having means for lead screw misalignment compensation. 3,703,699, 11-21-72, Cl. 338-180.000.

Lahme, Norbert: *See—*
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Lahr, Roy J.; and Cassano, James R., to Xerox Corporation. Linear-to-drum optical scan converter system. 3,652,156, 3-28-72, Cl. 355-8.

Lahrson, Allan E.; Hublou, Frank E.; Zuchowski, Richard C.; Vannucci, Robert J.; Lenox, Timothy L.; and Geary, David S., to Kaiser Aluminum & Chemical Corporation. Recursive Kopy program for remote input management system. 3,633,176, 1-4-72, Cl. 340-172.5.

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Lai, Cheng Ying; and Goins, Charles Patrick, to Tyco Industries, Inc. Track for model vehicles. 3,645,445, 2-29-72, Cl. 238-10.

Lai, San-Cheng, to Kerr-McGee Chemical Corporation. Method for electrodepositing manganese. 3,686,083, 8-22-72, Cl. 204-105.00m.

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Laible, Ralph L. Electrical fence construction. 3,669,413, 6-13-72, Cl. 256-10.000.

Laible, Roy C., to United States of America, Army. Method of making a non-woven fibrous felt ballistic armor material. 3,641,638, 2-15-72, Cl. 28-72.2.

Laiderman, Donald David, to Gillette Company, The. Cosmetic composition. 3,697,644, 10-10-72, Cl. 424-70.000.

Laidlaw, George M.: *See—*
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Laidman, John Neil: *See—*
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Laigle, Roger E.; and Rakich, Antone F., to Anaconda American Brass Company. Adjustable guide for a moving sheet. 3,692,223, 9-19-72, Cl. 226-199.000.

Laimins, Eric, to BLH Electronics, Inc. Wear sleeve-transducer combination for aircraft landing gear. 3,707,270, 12-26-72, Cl. 244-103.00r.

Laine, Robert E.: *See—*
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Lainesse, Bruno. Apparatus for injection molding. 3,669,601, 6-13-72, Cl. 425-249.

Laing, Alfred M., to Spang Industries, Inc. Magnetic particle core manufacturing process. 3,666,571, 5-30-72, Cl. 148-104.

Laing, Clyde A., Jr. Ladder latching device. 3,672,612, 6-27-72, Cl. 248-361.00r.

Laing, Ingeborg. Hair roller and an apparatus for heating hair rollers. 3,665,939, 5-30-72, Cl. 132-33.

Laing, James Morrison, to Borg-Warner Limited. Torque transmitting connection and method of making the same. 3,631,947, 1-4-72, Cl. 192-4.

Laing, James Morrison, to Borg-Warner Limited. Friction coupling with dual pistons. 3,650,364, 3-21-72, Cl. 192-85.

Laing, James Morrison, to Borg-Warner Limited. Transmission mechanism and method of manufacture thereof. 3,664,210, 5-23-72, Cl. 74-753.
Laing, James Morrison, to Borg-Warner Limited. Planetary carrier assembly and method of manufacture thereof. 3,667,324, 6-6-72, Cl. 74-801.
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Laing, Nikolaus. Electrical unit having a magnetic switch connecting a cordless electric power appliance to a charging appliance. 3,637,986, 1-25-72, Cl. 219-519.
Laing, Nikolaus. Magnetic transmission. 3,645,650, 2-29-72, Cl. 417-420.
Laing, Nikolaus. Centrifugal pump with magnetic coupling. 3,649,137, 3-14-72, Cl. 417-420.
Laing, Nikolaus. Excess temperature switching device. 3,668,373, 6-6-72, Cl. 219-505.000.
Laing, Nikolaus. Means for preventing the formation of ice, particularly on roads. 3,683,152, 8-8-72, Cl. 219-213.000.
Laing, Nikolaus. Rotating heat exchanger with flow transmission. 3,688,836, 9-5-72, Cl. 165-86.000.
Laing, Nikolaus. Vessel for meltable heat storage masses. 3,689,738, 9-5-72, Cl. 219-378.000.
Laing, Nikolaus. Storage panels, particularly for heated floors. 3,704,359, 11-28-72, Cl. 219-213.000.
Laing, Ralph R.: *See—*
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Domine, Daniel; and Jay, Leon, 3,638,398.
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Renard, Michel; Cardinne, Philippe; and Manhes, Bernard, 3,702,956.
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Laird, William Burton; Williams, Roy L.; and Muska, Allen V., to Air Reduction Company, Incorporated. Method and apparatus for the microdispersion of oxygen in water. 3,671,022, 6-20-72, Cl. 261-29.
Laisi, Risto, to Sanders Associates, Inc. Resistor structure. 3,654,580, 4-4-72, Cl. 338-61.
Laisney, Alexis D., to Eastman Kodak Company. Electrophotographic fusing apparatus. 3,700,218, 10-24-72, Cl. 263-6.00e.
Laithwaite, Eric Roberts; and Bolton, Hugh Robert, to National Research Development Corporation. Linear induction motors. 3,648,084, 3-7-72, Cl. 310-13.
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Lajiness, Thomas A., to Johnson, S. C., & Son, Inc. Oxazolidine and tetrahydrooxazine compounds having insect repellent activity. 3,707,541, 12-26-72, Cl. 260-244.00r.
Lajoie, Peter A., to Allegheny Ludlum Industries, Inc. Synchronized driver for electrical utilization devices. 3,649,893, 3-14-72, Cl. 318-119.
Lajoye, Pierre. Loading and unloading equipment for motorscrapers. 3,633,293, 1-11-72, Cl. 37-127.
Lajoye, Pierre. Method for the centrifugal casting of metal in a rotating horizontal shell. 3,672,429, 6-27-72, Cl. 164-63.000.
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Lajus, Pierre, to Compagnie Generale de Radiologie. Radiological examination apparatus. 3,670,163, 6-13-72, Cl. 250-50.000.
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Lake Center Industries: *See—*
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Lake, Connie, to Mobil Oil Corporation. Bag structure with integral closure arrangement. 3,653,584, 4-4-72, Cl. 229-62.
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Lake, Donald; Perrin, Badger; and Nolan, Frederick J., to TRW Inc. Fastening device. 3,675,817, 7-11-72, Cl. 221-95.000.
Lake, Edward E., to Clark Equipment Company. Hydraulic lift truck with small number of fluid lines. 3,692,198, 9-19-72, Cl. 214-653.000.
Lake, Francis K., to Addressograph-Multigraph Corporation. Lithographic inking dampening system. 3,645,202, 2-29-72, Cl. 101-148.
Lake, Gary F. Snow and water skimming device. 3,689,092, 9-5-72, Cl. 280-11.130.
Lake, Glen W.; and Coerper, Myron D., to Chemetron Corporation, mesne. Dry insulated transformer. 3,633,140, 1-4-72, Cl. 336-182.
Lake, Glen W.; and Coerper, Myron D., to Chemetron Corporation, mesne. Method of making dry insulated inductive coil. 3,662,461, 5-16-72, Cl. 29-605.000.
Lake, Jack Tait, to Pump Specialties, Inc. Method and apparatus for actuating a sub-surface reciprocal well pump. 3,632,234, 1-4-72, Cl. 417-390.
Lake, William H.; and Medendorp, Nicholas W., to General Electric Company. Internally resistively ballasted discharge lamp containing bridge rectifier. 3,666,986, 5-30-72, Cl. 315-49.
Lake, William H., to General Electric Company. Metal halide lamp system. 3,700,960, 10-24-72, Cl. 315-151.000.
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Lakiza, Rostislav Ivanovich; Soloviev, Petr Ivanovich; Dukov, Vasily Maximovich; and Baron, Grigory Rakhmielevich. Crane device for

preventing collision of load with seacraft in rough weather. 3,662,991, 5116-72, Cl. 254-172.
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Lal, Joginder, to Goodyear Tire & Rubber Company, The. High molecular weight stereoregular polymers from olefin oxides and sulfides. 3,632,784, 1-4-72, Cl. 260-2.
Lal, Joginder, to Goodyear Tire & Rubber Company, The. Catalyst for making high molecular weight stereoregular polymers from olefin oxides and sulfides. 3,649,561, 3-14-72, Cl. 252-431.
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Lala, Louis A. Screen printing article and method of making same. 3,643,597, 2-22-72, Cl. 101-128.3.
Lala, Louis A., to Amole, Inc., mesne. Silk screening apparatus. 3,673,954, 7-4-72, Cl. 101-40.000.
Lalague, Christian, to Boussois Souchon Neuvesel. Rocking-swinging window leaf. 3,667,162, 6-6-72, Cl. 49-192.000.
Lalancette, Jean-Marc. Preparation of organothioborates. 3,702,337, 11-7-72, Cl. 260-462.00r.
Lale, Walter G. Articulated TV platform. 3,701,073, 10-24-72, Cl. 339-5.00p.
Lalet, Philippe; and Tsouladze, Guy, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Copolymers of vinyl chloride and terpenes. 3,666,734, 5-30-72, Cl. 260-87.5.
Laleuf, Rene; and Nechtschein, Jacqueline, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process for oxidizing mercaptans to disulfides in the presence of solid catalytic masses. 3,686,094, 8-22-72, Cl. 208-206.000.
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Laliberte, Real, to Ayerst, McKenna & Harrison Limited. Derivatives of thieno [3,4-α] pyrimidine and preparation thereof. 3,644,357, 2-22-72, Cl. 260-256.5.
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LaMarche, Robert E., to Bell Telephone Laboratories, Incorporated. Digital speech detection system. 3,649,766, 3-14-72, Cl. 179-15.
Lamb, Anthony H. Diagnostic means for detection of diseases exhibiting skin temperature variations. 3,651,694, 3-28-72, Cl. 73-342.
Lamb, Anthony H. Medical thermographic diagnostic means. 3,699,813, 10-24-72, Cl. 73-342.000.
Lamb, Charles Paul; Dudley, William A.; Kingsley, George S.; and De Moss, Edward E., to Teledyne, Inc. Gas lift system. 3,659,961, 5-2-72, Cl. 417-114.
Lamb, David Robert: *See—*
Steigman, Peter Edward; Badcock, Frank Robert; and Lamb, David Robert, 3,686,544.
Lamb, Donald P., to La Salle Machine Tool, Inc. Part meter. 3,677,383, 7-18-72, Cl. 193-35.00a.
Lamb, F. Jos., Company: *See—*
Thompson, Earl A., 3,690,956.
Thompson, Earl A., 3,690,957.
Thompson, Earl A., 3,690,958.
Thompson, Earl A., 3,690,959.
Van Deberg, Walter H.; and Thompson, Earl A., 3,688,830.
Lamb, F. Jos., Company, mesne: *See—*
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Bourne, Douglas J.; and Lamb, Frank E., 3,656,892.
Lamb, George E. R.; Prevorsek, Dusan C.; and Oswald, Hendrikus J., to Allied Chemical Corporation. Method of imparting wrinkle resistance to fabrics. 3,634,163, 1-11-72, Cl. 156-166.
Lamb, George E. R.; Prevorsek, Dusan C.; Kotliar, Abraham M.; and Oswald, Hendrikus J., to Allied Chemical Corporation. High bulk yarn formable mixtures of linear polymeric thermoplastic materials. 3,705,074, 12-5-72, Cl. 161-172.000.
Lamb, George Edwin Robert: *See—*
Li, Hsin Lang; Lamb, George Edwin Robert; and Prevorsek, Dusan Ciril, 3,686,722.
Lamb, Glentworth, to American Cyanamid Company. Control of phytopathogenic fungi and bacteria by tetrabutyldichlorostannoxane. 3,632,770, 1-4-72, Cl. 424-288.
Lamb, Glentworth, to American Cyanamid Company. 2-Hydroxy-3-methoxy-β-nitrostyrene and 2-hydroxy-5-β-nitrostyrene as antifungal and antibacterial agents. 3,652,772, 3-28-72, Cl. 424-340.
Lamb, James J., to United States of America, Army. Real-time initial atmospheric gradient measuring system. 3,688,189, 8-29-72, Cl. 324-58.50b.
Lamb, John H. Antifouling fishing sinker. 3,667,151, 6-6-72, Cl. 43-44.970.
Lamb, John T.; and Anderson, Carl L., to Tappan Company, The. Energization system with safety provision for faulty rectifier. 3,673,464, 6-27-72, Cl. 317-43.000.
Lamb, Kay R. Keg sealing and tapping apparatus. 3,653,557, 4-4-72, Cl. 222-400.7.
Lamb, Ross H. Converter bracket for lift bucket. 3,665,622, 5-30-72, Cl. 37-117.5.
Lamb, Thomas J.: *See—*
Huska, Paul A.; Meissner, Herman P.; and Lamb, Thomas J., 3,647,373.
Lamb, Thomas L. Lounge chair. 3,695,685, 10-3-72, Cl. 297-29.000.
Lamb, Thomas W.; Lee, Robert E.; Montgomery, William C., Jr.; Orr, William R.; and Vogel, Charles B., to Shell Oil Company. Recording system for seismic signals. 3,651,450, 3-21-72, Cl. 340-15.5.
Lamb, William Doyle: *See—*
Butcher, James; Gyllstrom, Richard G.; and Lamb, William Doyle, 3,670,760.
Lamb-Weston, Inc.: *See—*
Davidson, Arthur R.; Haubner, John E.; and White, George A., 3,642,495.
Haubner, John E., 3,643,721.
Schoch, Thomas J.; and Sloan, Jerry L., 3,669,686.
Sloan, Jerry L., 3,644,129.
Wilder, Curtis J., 3,649,305.
Lambach, Rolf: *See—*
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Lambe, Keith Albert Dale: *See—*
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Lambeek, Adriaan Jan Jurriaan; Laa, Friedrich; and Rupp, Karl, to U.S. Philips Corporation. Means for causing reversal or switching off movement of a record carrier in a recording and/or playback apparatus. 3,653,607, 4-4-72, Cl. 242-191.
Lambeir, Silvaan Rene: *See—*
Bestenreiner, Friedrich; Lambeir, Silvaan Rene; and Meeussen, Louis Achilles, 3,642,349.
Lamberg Industrial Research Association: *See—*
Ruddell, James Nelson; and Todd, Herbert Alexander Conway, 3,636,185.
Lambert, Andre Simon Georges: *See—*
Goursolas, Anne-Marie Jeanne; and Lambert, Andre Simon Georges, 3,691,514.
Lambert, Andre Simon Georges, to Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique 'Alcatel'. Apparatus for determining the direction of propagation of a plane wave. 3,651,479, 3-21-72, Cl. 340-172.5.

Lambert, Arthur H., to Comco Supply, Inc. Apparatus for trimming electrical resistors. 3,685,209, 8-22-72, Cl. 51-14.000.
Lambert, Bernard, to Ethylene Plastique. Photodegradable polyolefins. 3,679,777, 7-25-72, Cl. 260-897.00a.
Lambert Brake Corporation, mesne: *See—*
Hahn, Emil H., 3,651,897.
Lambert, C. J.: *See—*
Chinlund, Joseph F.; and Lambert, C. J., 3,662,570.
Lambert, Daryl Gene. Screen printing machine with single-sided rack-and-pinion drive. 3,650,208, 3-21-72, Cl. 101-123.
Lambert, Edward Henry: *See—*
Michael, Tantrimudalige Anthony Don; and Lambert, Edward Henry, 3,683,908.
Lambert, George M., to Reliance Electric Company. Combination brake and break-over mechanism for variable speed control mechanism. 3,657,937, 4-25-72, Cl. 74-230.17.
Lambert, Harold: *See—*
Miller, Bernard; Lambert, Harold; and Meiser, Charles H., Jr., 3,667,277.
Lambert, Jack R. Spirograph mouthpiece. 3,659,589, 5-2-72, Cl. 128-2.08.
Lambert, Jacques, to Flaminaire Marcel Quercia. Fuel reservoirs, especially for gas-lighters. 3,678,695, 7-25-72, Cl. 62-50.000.
Lambert, Jacques, to Societe Flaminaire Marcel Quercia. Lighters, especially gas lighters. 3,679,346, 7-25-72, Cl. 431-130.000.
Lambert, James B.; Seiden, Lewis J.; and Morgan, Henry A., to T-Bar Incorporated. Switch having opposed dome and flexible bifurcated contacts. 3,689,856, 9-5-72, Cl. 335-133.000.
Lambert, James H., to Kehr, Frank L. Valve spring tester. 3,638,486, 2-1-72, Cl. 73-161.
Lambert, Kenneth W.; and Krichbaum, Donald W., to Dunham-Bush, Inc. Weatherproof enclosure. 3,675,379, 7-11-72, Cl. 52-79.000.
Lambert, Lucian T. Combination of a rapidly removable lawn edger and a rotary lawnmower. 3,686,839, 8-29-72, Cl. 56-11.600.
Lambert, Robert E.; Beal, Edward W.; and Bacewicz, Anthony J., to Connecticut International Corporation. Optical failsafe airplane landing guidance system. 3,701,969, 10-31-72, Cl. 340-25.000.
Lambert, Robert L., Jr.: *See—*
Seyferth, Dietmar; and Lambert, Robert L., Jr., 3,658,861.
Lambert, Robert R., to Air Factors, Inc. Spaced parallel panel air diffuser assembly. 3,688,680, 9-5-72, Cl. 98-40.00d.
Lambert, Robert R., to Air Factors, Inc. Suspended ceiling framework supported troffer air distribution system. 3,690,243, 9-12-72, Cl. 98-40.00p.
Lambert, Ronald D.: *See—*
Fall, Maxwell S.; and Lambert, Ronald D., 3,687,505.
Lambert, Ronald F.: *See—*
Bloom, Stanley M.; and Lambert, Ronald F., 3,644,530.
Buckler, Sheldon A.; and Lambert, Ronald F., 3,640,713.
Lambert, Stephen Anthony, to Digital Information Storage Corporation. Magnetic information disk equipment. 3,662,360, 5-9-72, Cl. 340-174.1.
Lambert, William J. Random access article selection of system and apparatus therefor. 3,672,497, 6-27-72, Cl. 209-80.500.
Lamberti, Vincent; and Konort, Mark D., to Lever Brothers Company. Detergent compositions containing oxydissuccinic acid salts as builders. 3,635,830, 1-18-72, Cl. 252-152.
Lamberti, Vincent; and Sepulveda, Ralph R., to Lever Brothers Company. Fabric softener. 3,644,203, 2-22-72, Cl. 252-8.75.
Lamberti, Vincent; and Lemaire, Henry, to Lever Brothers Company. Antimicrobial compositions and methods of use. 3,652,764, 3-28-72, Cl. 424-235.
Lamberti, Vincent; and Winnegrad, Ronald R., to Lever Brothers Company. Detergent compositions containing the ethers and esters of tetrahydrofuran and tetrahydropyran. 3,668,134, 6-6-72, Cl. 252-89.000.
Lamberti, Vincent; Konort, Mark D.; and Weil, Ira, to Lever Brothers Company. Detergent compositions. 3,692,685, 9-19-72, Cl. 252-89.000.
Lamberti, Vincent; Lemaire, Henry; and Cahn, Arno, to Lever Brothers Company. Anionic detergent compositions containing foam boosting succinic acid derivatives. 3,707,511, 12-26-72, Cl. 252-546.000.
Lambertson, Glen R.: *See—*
Avery, Robert T.; Lambertson, Glen R.; and Pike, Chester D., 3,702,450.
Lamberty, John M.: *See—*
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Lambertz, Hans-Reinhard: *See—*
Waschulewski, Hans-Georg; Baumers, Hans; and Lambertz, Hans-Reinhard, 3,636,834.
Lambeth, Dennis Ernest, to Dowty Technical Developments, Limited. Hydraulic apparatus. 3,636,820, 1-25-72, Cl. 91-499.
Lambie, John Walkinshaw. Sealing devices. 3,693,986, 9-26-72, Cl. 277-188.000.
Lambiott, Jerry F.: *See—*
Hinckley, Paul D.; Klender, Gerald J.; and Lambiott, Jerry F., 3,686,362.
Lambiris, Theodore, to General Motors Corporation. Transmission gearshift indicator. 3,695,215, 10-3-72, Cl. 116-124.00r.
Lamborghini, Ferruccio, to Lamborghini Oleodinamica S.p.A. Valve for distributing fluid to a system of fluid-actuated machines. 3,635,244, 1-18-72, Cl. 137-596.
Lamborghini Oleodinamica S.p.A.: *See—*
Lamborghini, Ferruccio, 3,635,244.
Lambot, Honore Joseph. Cable-type coring apparatus for retrieving underground specimens. 3,667,558, 6-6-72, Cl. 175-246.000.
Lamboy, Osvaldo; and Smith, Daniel J., to Thiokol Chemical Corporation. Curable compositions for making high temperature stable cured -SH terminated polysulfide polymer. 3,635,880, 1-18-72, Cl. 260-45.7.
Lambrecht, Ralph E., to Outboard Marine Corporation. Marine propeller with resilient hub structure. 3,701,611, 10-31-72, Cl. 416-134.000.
Lambrecht, Richard A., to Union Carbide Corporation. System for molding electronic components. 3,650,648, 3-21-72, Cl. 425-129.
Lambrechts, Jan Bernard, to Agfa-Gevaert. Method of recording and transferring design indicia. 3,674,588, 7-4-72, Cl. 156-230.000.
Lamendin, Arthur; Matel, Bernard; and Dhenin, Jean, to Societe de Produits Chimiques Marles-Kuhlmann. Process for preparing simple and substituted morpholines. 3,654,271, 4-4-72, Cl. 260-247.
Lamensdorf, David: *See—*
Ross, Gerald F.; and Lamensdorf, David, 3,659,203.
Lamer, Gerald P.; and Vaerk, Lembit, to Case, J. I., Company. Safety control for load line. 3,658,188, 4-25-72, Cl. 212-39.
Lamer, Gerald P.; and Thiele, Duane L., to Case, J. I., Company, mesne. Mobile crane with jib extension. 3,698,569, 10-17-72, Cl. 212-144.000.
Lamin, Vladimir Ivanovich: *See—*
Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavrill Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grgorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
Laminated Wood Products Co.: *See—*
Huling, Fred W., Jr., 3,691,929.
Laming, Frank P.; Levine, Solomon L.; and Sincerbox, Glenn T., to International Business Machines Corporation. Hologram life extension. 3,695,879, 10-3-72, Cl. 96-48.000.
Lamison, Vernon L.: *See—*
Byrns, Robert E.; Gouldthorpe, Hugh W.; and Lamison, Vernon L., 3,693,117.
Lamkemeyer, Klaus. Device for charging furnaces with moulds. 3,659,729, 5-2-72, Cl. 214-25.
Lamkin, Clifford L. Crankcase vapors condensor. 3,664,314, 5-23-72, Cl. 123-119.00b.
Lamm, Bo Robert: *See—*
Brandstrom, Arne Elof; Carlsson, Per Arvid Emil; Carlsson, Stig Ake Ingemar; Corrodi, Hans Rudolf; Ek, Lars; Lamm, Bo Robert; and Ablad, Bengt Arne, 3,674,840.
Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Oil tank for a rotary piston internal combustion engine with dry-sump lubrication. 3,638,760, 2-1-72, Cl. 184-6.23.
Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Radial seal for a rotary piston internal combustion engine. 3,667,877, 6-6-72, Cl. 418-121.
Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine. 3,685,922, 8-22-72, Cl. 418-113.000.
Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine. 3,703,163, 11-21-72, Cl. 123-8.090.
Lamm, Merritt Otis, to Ken-Bar Tool & Engineering, Inc. Metal forming method and apparatus. 3,685,340, 8-22-72, Cl. 72-398.000.
Lamm, William R.: *See—*
Bengtson, Barbara L.; and Lamm, William R., 3,654,080.
Dworschack, Robert G.; and Lamm, William R., 3,666,628.
Lamme, Seth Eric Valentin: *See—*
Lindahl, Bo Oscar; Lamme, Seth Eric Valentin; and Hallenrud, Sven Josef Harry, 3,702,734.
Lammers, Arthur R.: *See—*
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Lammert, Charles W.: *See—*
Charleville, Joseph L.; De Tienne, Mart E.; and Lammert, Charles W., 3,670,998.
Lamneck, Karlheinz: *See—*
Kulick, Bruno; and Lamneck, Karlheinz, 3,703,217.
Lamola, Angelo Anthony: *See—*
Chandross, Edwin Arthur; Fork, Richard Lynn; Lamola, Angelo Anthony; and Tomlinson, Walter John, III, 3,668,663.
Lamont, Peter: *See—*
Laur, Thomas L.; and Lamont, Peter, 3,635,874.
Lamore, Herbert T., to Holley Carburetor Company. Air valve carburetor. 3,695,589, 10-3-72, Cl. 261-23.00a.

Lamorlette, Paul, to L'Eclairage des Vehicules Sur Rail (E.V.R.). System for supplying electric energy to an electric traction railway vehicle. 3,659,187, 4-25-72, Cl. 322-26.

Lamort, Pierre. Apparatus for clarifying liquids contaminated by materials in suspension, more particularly waste water from paper machines. 3,647,071, 3-7-72, Cl. 210-107.

Lamort, Pierre Louis. Apparatus for preparing paper pulp or any other product of a similar nature, from bales of cellulose or raw materials for recovery such as waste paper. 3,682,398, 8-8-72, Cl. 241-46.170.

Lamorte, Michael F.: *See—*
Caplan, Sandor; and Lamorte, Michael F., 3,701,047.

Lamorte, Michael F., to RCA Corporation. Method of making semiconductor devices. 3,697,336, 10-10-72, Cl. 148-171.000.

Lamp, Paul F., to Electone, Inc. Hearing aid switch. 3,641,288, 2-8-72, Cl. 200-52.

Lamp, Paul F., to Electone, Inc. Digital hearing aid gain analyzer. 3,692,959, 9-19-72, Cl. 179-175.10a.

Lamp, William F.: *See—*
Weisselberg, Edward B.; Worden, George M., Sr.; Lamp, William F.; and Lane, Alexander M., 3,681,855.

Lamparsky, Dietmar; and Schudel, Peter, to Givaudan Corporation. Novel caranone derivatives, perfume compositions containing same process for their preparation. 3,660,489, 5-2-72, Cl. 260-586.

Lamparsky, Hans Dietmar; and Marbet, Roman, to Givaudan Corporation. Unsaturated hydroxy ketones. 3,670,026, 6-13-72, Cl. 260-592.000.

Lamparter, Hansruedi; and Spescha, Gelli Anton, to Rieter Machine Works, Ltd. Apparatus for controlling the temperature of an inductively heated draw roll. 3,686,460, 8-22-72, Cl. 219-10.770.

Lampathakis, Kyriakose: *See—*
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Lampcraft Tool & Mold, Inc.: *See—*
Stanciu, Virgil V., 3,638,673.

Lampe, Hans H.: *See—*
Knauft, Gunter; Koederitz, Fritz; Painke, Helmut; Reichl, Leopold; Lampe, Hans H.; Vachenauer, Robert; Vogt, Edwin; and Weber, Hermann, 3,659,273.

Lampe, Warren R., to General Electric Company. Room temperature vulcanizable silicone rubber composition. 3,696,090, 10-3-72, Cl. 260-18.00s.

Lampert, Rolf: *See—*
Puhahn, Werner; and Lampert, Rolf, 3,650,086.

Lamph, Ara Norman: *See—*
Van Wagenen, Normal L.; and Lamph, Ara Norman, 3,702,143.

Lamphere, David A.; and Stuart, Douglas E., to Simmonds Precision Products, Inc. Mass fuel flow measurement system. 3,635,084, 1-18-72, Cl. 73-231.

Lamphere, Jack C.: *See—*
Nankee, Robert J.; Lamphere, Jack C.; and Nelson, Rodney A., 3,686,024.

Lampi, Rauno A.; Hu, Kwoh H.; and Osborne, Richard F., to United States of America, Army. Infrared radiometric detection of seal defects. 3,678,276, 7-18-72, Cl. 250-83.30h.

Lamping, Robert F., to Modern Engineering Company, Inc. High pressure regulator. 3,675,678, 7-11-72, Cl. 137-505.220.

Lampkin, Curt M., to Baldwin, D. H., Company. Analog to digital encoder. 3,688,302, 8-29-72, Cl. 340-347.00p.

Lampman, William T.; and Wade, Charles H., to Whirlpool Corporation. Dishwasher. 3,665,943, 5-30-72, Cl. 134-200.000.

Lampredi, Aurelio: *See—*
Bertinetti, Emilio Alberto; and Lampredi, Aurelio, 3,651,705.

Lampredi, Aurelio, to Fiat Societa per Azioni and Cigala & Bertinetti S.a.s. Toothed pulleys. 3,696,685, 10-10-72, Cl. 74-230.300.

Lampson, George P.; Tytell, Alfred A.; Field, Arthur K.; and Hilleman, Maurice R., to Merck & Co., Inc. Reduction of molecular weight in polynucleotides using ultrasonic radiation. 3,666,646, 5-30-72, Cl. 204-160.1.

Lamson & Sessions Co., The: *See—*
Breed, Arthur R., 3,701,372.
Perison, Ronald C., Sr., 3,635,435.

Lamson, Byron A.: *See—*
Grant, David C.; and Lamson, Byron A., 3,675,406.

Lamson, James E.; and Nametz, Richard C., to Michigan Chemical Corporation. Flame retardant nylon-containing material. 3,682,692, 8-8-72, Cl. 117-137.000.

Lamster, Hal Bernhard: *See—*
Stone, John Alexander; Lamster, Hal Bernhard; Baker, Charles L.; and Bakiras, Spiro, 3,681,755.

Lamure, Bernard, to Societe Rhodiaceta. Tetrahydrotetraazaporphine dyestuffs. 3,637,739, 1-25-72, Cl. 260-314.

Lamure, Bernard, to Societe Rhodiaceta. Copolymerizable (alkoxycarbonylphenylazo) phthalocyanine dyestuffs. 3,646,003, 2-29-72, Cl. 260-146.

Lana, Garnet L. Nail screw fastening system. 3,654,832, 4-11-72, Cl. 85-45.

Lanahan, John H.; and Abraham, William W., to Mohawk Industrial Laboratories, Inc. Card sorting device and method. 3,672,498, 6-27-72, Cl. 209-80.500.

Lanahan, John H., to Mohawk Industrial Laboratories, Inc. Disappearing punch. 3,682,033, 8-8-72, Cl. 83-522.000.

Lanahan, John H.; and Abraham, William W., to Mohawk Industrial Laboratories, Inc. Card sorting device. 3,690,457, 9-12-72, Cl. 209-80.500.

Lanahan, John H.; and Abraham, William W., to Mohawk Industrial Laboratories, Inc. Information storage cards. 3,704,781, 12-5-72, Cl. 209-80.500.

Lanahan, John L., to Mohawk Industrial Laboratories, Inc. Floating decimal coding system. 3,645,438, 2-29-72, Cl. 234-1.

Lanaspeze, Pierre: *See—*
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Lancaster, Arthur W., to Hi-Way Safti Signal Manufacturing Corporation. Safe-to-pass indicator having portions of indicia flashingly illuminated. 3,683,330, 8-8-72, Cl. 340-107.000.

Lancaster, Edgar D., Jr.: *See—*
Cricchi, James R.; and Lancaster, Edgar D., Jr., 3,641,511.

Lancaster, James Kenneth; and Yates, David William, to Caludon Engineering Company Limited. Machine tool having rotary and indexible work table. 3,680,439, 8-1-72, Cl. 90-15.100.

Lancaster, Jesse F., to Cooke Engineering Company. Laboratory dispensing apparatus. 3,650,306, 3-21-72, Cl. 141-238.

Lancaster, Jesse F., to Cooke Engineering Company. Multi-circuit switching connector. 3,665,129, 5-23-72, Cl. 200-51.07.

Lancaster, Jesse F., to Cooke Engineering Company, The. Multi-circuit patch plug and jack. 3,692,966, 9-19-72, Cl. 200-51.100.

Lancaster, John Keith: *See—*
Giltrow, Jeremy Peter; Kinner, George Henry; and Lancaster, John Keith, 3,674,689.

Lancaster, John Kenneth. Container cover. 3,659,756, 5-2-72, Cl. 222-531.

Lancaster, Larry N. Spindle plumbing device. 3,688,485, 9-5-72, Cl. 57-1.00r.

Lancaster, Robert W., to Panhandle Eastern Pipe Line Company. Dies for cutting electrical cable. 3,696,509, 10-10-72, Cl. 30-90.600.

Lancaster, Roy: *See—*
Kamachi, Shig K.; and Lancaster, Roy, 3,636,979.

Lance, Andrew T.: *See—*
Kafka, Robert S., 3,635,649.

Lance, Christopher James, 50% to Belknap, Ivan F. Combined wrench and marking device. 3,662,629, 5-16-72, Cl. 81-52.

Lance, Christopher James, 50% to Belknap, Ivan F. Manually operated marking torque wrench. 3,667,327, 6-6-72, Cl. 81-52.400.

Lance, Joseph R., to Westinghouse Electric Corporation. Electromagnetic energy converter for pulsing an implantable blood pump. 3,633,217, 1-11-72, Cl. 3-1.

Lancia, Fredrick N.; and Miller, Gerald L., to Xerox Corporation. Vacuum nozzle to remove agglomerates on a toner applicator. 3,645,618, 2-29-72, Cl. 355-15.

Lancier, Michael: *See—*
Hans, Rainer; Lancier, Michael; and Becher, Hermann, 3,648,518.

Lancini, Giancarlo, to Gruppo Lepetit, S.p.A. Antibiotic substance defined as rifamycin L. 3,634,403, 1-11-72, Cl. 260-239.3.

Lancor, Joseph H., Jr.: *See—*
Figge, Erwin E.; Lancor, Joseph H., Jr.; and Lodge, Edward H., 3,669,532.

Lancor, Joseph H., Jr., to Bell & Howell Company. Sound motion picture camera. 3,650,609, 3-21-72, Cl. 352-17.

Lancor, Joseph H., Jr., to Bell & Howell Company. Audio-visual recording and display methods and apparatus. 3,674,346, 7-4-72, Cl. 352-12.000.

Lancsek, Thomas Stephen: *See—*
Feldstein, Nathan; and Lancsek, Thomas Stephen, 3,666,527.

Lancy Laboratories Inc., mesne: *See—*
Lancy, Leslie E., 3,682,701.

Lancy, Leslie E., to Lancy Laboratories Inc., mesne. Integrated waste water treatment for reusage after cyanide type plating. 3,682,701, 8-8-72, Cl. 134-13.000.

Land, Cecil E.; and Smith, Willis D., to United States of America, Atomic Energy Commission. Ferroelectric ceramic plate electro-optical light scattering device and method. 3,702,724, 11-14-72, Cl. 350-160.000.

Land, Edwin; Ferrari, Leonard A.; Kagan, Sholly; and McCann, John J., to Polaroid Corporation. Image reproduction system which detects subject by sensing intensity ratios. 3,651,252, 3-21-72, Cl. 178-6.

Land, Edwin, to Polaroid Corporation. Photographic fluid container manufactured by freezing and sealing liquid. 3,695,884, 10-3-72, Cl. 96-76.00c.

Land, Edwin H., to Polaroid Corporation. Integral negative/positive color diffusion transfer process film unit employing in-situ generated visible light-reflecting agent. 3,647,434, 3-7-72, Cl. 96-3.

Land, Edwin H., to Polaroid Corporation. Integral negative/positive color diffusion transfer process film unit employing in-situ generated visible light-reflecting agent. 3,647,435, 3-7-72, Cl. 96-3.

Land, Edwin H., to Polaroid Corporation. Photographic products, processes and compositions. 3,647,437, 3-7-72, Cl. 96-3.
Land, Edwin H., to Polaroid Corporation. Film assemblage. 3,651,746, 3-28-72, Cl. 95-19.
Land, Edwin H., to Polaroid Corporation. Photographic film unit and method of manufacture. 3,652,282, 3-28-72, Cl. 96-76.
Land, Edwin H., to Polaroid Corporation. Motion-picture system. 3,655,277, 4-11-72, Cl. 352-72.
Land, Edwin H., to Polaroid Corporation. Compact variable frame viewfinder. 3,664,250, 5-23-72, Cl. 95-44.
Land, Edwin H., to Polaroid Corporation. Diffusion transfer image receiving sheet with hydrolyzed polymer layer. 3,671,241, 6-20-72, Cl. 96-29.000.
Land, Edwin H., to Polaroid Corporation. Reflex camera. 3,672,281, 6-27-72, Cl. 95-42.000.
Land, Edwin H., to Polaroid Corporation. Photographic apparatus. 3,672,283, 6-27-72, Cl. 95-11.00r.
Land, Edwin H., to Polaroid Corporation. Novel photographic products and processes. 3,672,890, 6-27-72, Cl. 96-3.000.
Land, Edwin H.; and Erlichman, Irving, to Polaroid Corporation. Film storage chamber. 3,675,551, 7-11-72, Cl. 95-11.00r.
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Land, Edwin H., to Polaroid Corporation. Photographic diffusion transfer color process and composite film unit for use therein. 3,690,879, 9-12-72, Cl. 96-3.000.
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Land, Karl M., to Cities Service Oil Company. Method and apparatus for well completion explosive stimulation. 3,690,378, 9-12-72, Cl. 166-299.000.
Landahl, Carl D.: *See—*
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Landefeld, Edgar E. Frequency synthesizer method for adding mixed harmonics which correspond to significant digits of the synthesized frequency. 3,644,827, 2-22-72, Cl. 324-79.
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Landen, William James,, to Eyelet Specialty Company. Safety closure. 3,659,735, 5-2-72, Cl. 215-9.
Landen, William James, to Eyelet Specialty Company. Safety-closure device. 3,667,636, 6-6-72, Cl. 215-9.000.
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Landoni, Giannino. Multineedle quilting machine for the manufacture of padded upholstery. 3,669,045, 6-13-72, Cl. 112-118.000.
Landoni, Giannino. Cover material feeding and forming apparatus for a quilting machine. 3,669,324, 6-13-72, Cl. 223-32.000.
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Landow, Charles D.; and Mutalipassi, Ettor, to United Overhead Door Corporation. Lock latch assembly for counterbalanced cargo carrying vehicle doors. 3,705,505, 12-12-72, Cl. 70-99.000.
Landquist, Justus Kenneth; and Richardson, Dora Nellie, to Imperial Chemical Industries Limited. Trans-1-p-(dialkylaminoalkyl) phenyl-1,2-diphenyl-alk-1-enes and salts thereof. 3,637,856, 1-25-72, Cl. 260-570.
Landrum, Bobby L., to Northrop Corporation. Multi-beam electron beam scanner utilizing a modulation plate for modulating each of the beams independently. 3,678,330, 7-18-72, Cl. 315-13.00r.
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Landry, Jean-Guy. Cement composition containing alkanolaminolignosulfonate-formaldehyde setting retarder. 3,689,296, 9-5-72, Cl. 106-90.000.
Landry, Murphy J., to United States of America, Atomic Energy Commission. Multiple beam laser system. 3,699,474, 10-17-72, Cl. 331-94.500.
Landry, Robert J.; and Snitzer, Elias, to American Optical Corporation. Sensitizing luminescence of erbium with molybdenum. 3,675,155, 7-4-72, Cl. 331-94.500.
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Landwehr, Bernhard R. Christmas tree garlands of flexible strip material with attached star elements and method of assembly. 3,663,342, 5-16-72, Cl. 161-14.000.
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Landwehrkamp, Hans, to Schubert & Salzer Maschinen fabrik Aktiengesellschaft. Method and apparatus for spinning a fiber band. 3,640,061, 2-8-72, Cl. 57-58.59.
Landwehrkamp, Hans, to Schubert & Salzer. Process and apparatus for fiber band spinning. 3,680,300, 8-1-72, Cl. 57-34.00r.
Landwehrkamp, Hans; Schreyer, Franz; and Handschuch, Karl, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Thread clamping, releasing, and feeding mechanism for spinning apparatus. 3,685,267, 8-22-72, Cl. 57-34.00r.
Landwehrkamp, Hans, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Method and apparatus for the interruption silver supply in open end spinning machine. 3,695,022, 10-3-72, Cl. 57-81.000.
Landwier, William G., to Maytag Company, The. Dishwasher condenser system. 3,704,170, 11-28-72, Cl. 134-25.00a.
Lane, Alan B., to Hunt-Wesson Foods, Inc. Process for cooking bacon and other meat products using infra-red and microwave energy. 3,674,504, 7-4-72, Cl. 99-107.000.
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Lane, George A.; and Smith, William Arthur, to Dow Chemical Company, The. Flare composition. 3,673,014, 6-27-72, Cl. 149-19.000.
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Lane, Homer P., to Western Electric Company, Incorporated. Bobbin wound coil assembly and electrical terminal therefor. 3,663,914, 5-16-72, Cl. 336-192.
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Lane, John H., to United States of America, Army, mesne. Automatic wind direction readout device. 3,690,170, 9-12-72, Cl. 73-188.000.
Lane, Kenneth R., to Le Voy's, Inc. Disposable scrub brush. 3,707,012, 12-26-72, Cl. 15-104.930.
Lane, L. B., to Lee, Raymond, Organization, Inc., The. Tail gate protector and load bar. 3,698,760, 10-17-72, Cl. 296-50.000.
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Lang, Dean D. Figure and oscillatable ball assembly. 3,651,598, 3-28-72, Cl. 46-116.
Lang, Edgar Reed; and Kelso, Robert Leslie, to Rohm & Haas Company. Thermally stabilized acrylic polymers. 3,634,367, 1-11-72, Cl. 260-79.7.
Lang, Elliot R., to American Chain & Cable Company, Inc. Method and apparatus for testing the hardness of materials. 3,657,921, 4-25-72, Cl. 73-83.
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Lang, George Henry, to Imperial Chemical Industries Limited. 1,1'-Ethylene-2,2'-bipyridylium salts. 3,651,060, 3-21-72, Cl. 260-250.
Lang, Gordon R., to E.S.E. Limited. Circuit and method for developing signal indicative of unknown frequency. 3,701,012, 10-24-72, Cl. 324-79.00r.
Lang, Gregor L. Alternating current solenoids. 3,647,177, 3-7-72, Cl. 251-129.
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Lang, James W. Mobile, containerized dispenser for flowable materials. 3,655,137, 4-11-72, Cl. 239-670.
Lang, James W.; and Lang, Emma P. Board game apparatus. 3,659,851, 5-2-72, Cl. 273-130.
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Lang, Marshall Ira, to Bajer Industries Incorporated. Suspended ceiling system including a grid network. 3,685,235, 8-22-72, Cl. 52-39.000.
Lang, Maurice; and Di Pasquale, Renato, to Yardney International Corporation. Fuel cell battery. 3,650,839, 3-21-72, Cl. 136-86.
Lang, Otto, to Kugelfischer Georg Schafer & Co. Friction crimping of synthetic threads. 3,668,853, 6-13-72, Cl. 57-34.
Lang, Paul C.; La Pine, Anthony N.; and Vaughn, Julian E., to International Business Machines Corporation. Random binary data signal frequency and phase compensation circuit. 3,701,039, 10-24-72, Cl. 331-1.00a.
Lang, Paul Wentworth, 1/2 to Du Pont, Michael H. Optical integrating system. 3,684,346, 8-15-72, Cl. 350-96.00b.
Lang, Paul Wentworth, 1/2 to du Pont, Michael H. Multiple image film exposure and projection system. 3,703,135, 11-21-72, Cl. 95-36.000.
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Lang, Robert A., to Bio-Medical Sciences, Inc. Disposable type thermometer. 3,677,088, 7-18-72, Cl. 73-356.000.
Lang, Ronald A., to Waters Mfg. Co., Inc. Animal actuated drinking valve. 3,698,685, 10-17-72, Cl. 251-303.000.
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Lang, William D.: *See—*
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Lang, William J.; and Krajewski, John J., to International Minerals & Chemical Corporation. Graft copolymers of acrylic acid and polyhydroxy polymeric compounds for treating clays. 3,640,826, 2-8-72, Cl. 252-8.5.
Lang, William J.; and Chelini, Joseph M., to International Minerals & Chemical Corporation. Agglomerate including graft copolymers of acrylic acid and methyl cellulose and method of making. 3,644,113, 2-22-72, Cl. 75-3.
Lang, William J.; and Krajewski, John J., to International Minerals & Chemical Corporation. Foundry sand compositions containing graft copolymers of acrylic acid with water soluble polyhydroxy polymeric compounds. 3,645,937, 2-29-72, Cl. 260-17.
Lang, William J., to International Minerals & Chemical Corporation. High yield bentonites. 3,687,846, 8-29-72, Cl. 252-8.50a.
Lang, William J., to International Minerals & Chemical Corporation. Increase in clay responsiveness to wetting. 3,700,474, 10-24-72, Cl. 106-288.00b.
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Langan, John F., to Langan Aperture Cards, Inc. Manufacture of aperture cards. 3,693,510, 9-26-72, Cl. 93-1.00g.
Langan, John P.; and Cobbeldick, Charles R., to Essex International Inc. Latchable reciprocating switch construction. 3,696,222, 10-3-72, Cl. 200-16.00r.
Langas, Arthur: *See—*
Lingle, Harrison C.; and Langas, Arthur, 3,647,593.
Langas, Arthur; and Lingle, Harrison C., to Hartco Company. Clip applying and clinching tools. 3,641,656, 2-15-72, Cl. 29-243.57.
Langbein, Adolf: *See—*
Schroeder, Hans-Detlef; Merz, Herbert; Langbein, Adolf; Freter, Kurt; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Wick, Helmut, 3,689,492.
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Langdon, Jack L., to International Business Machines Corporation. Construction of monolithic chip and method of distributing power therein for individual electronic devices constructed thereon. 3,656,028, 4-11-72, Cl. 317-235.
Langdon, Thomas Edward. Electrical contact assembly having damping means. 3,674,968, 7-4-72, Cl. 200-166.00h.
Lange, Clarence E.: *See—*
Beaverton, Daniel H.; Hall, Richard H.; and Lange, Clarence E., 3,686,827.
Lange, Frederick F., to Westinghouse Electric Corporation. Method for bonding sheet metal cladding to a body. 3,699,642, 10-24-72, Cl. 29-497.500.
Lange, Fritz-Walter, to Schwarzkopf, Hans, GmbH. Pyridine dyestuff intermediates in a hair dyeing composition and method. 3,647,351, 3-7-72, Cl. 8-10.2.
Lange, Gerhard: *See—*
Bahr, Alex; and Lange, Gerhard, 3,651,440.
Lange, Gerhard, to Messer Griesheim G.m.b.H. Flame cutting method. 3,663,309, 5-16-72, Cl. 148-9.
Lange, Gerhardt, to Messer Griesheim G.m.b.H. Portable hand guided cutting torch. 3,638,931, 2-1-72, Cl. 266-23.
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Lange, Guenter; and Fabian, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Water-insoluble dyes. 3,658,885, 4-25-72, Cl. 260-486.

Lange, Guenter; Wippel, Hans Guenter; and Bermes, Rudolf, to Badische Anilin; & Soda-Fabrik Aktiengesellschaft. Water-insoluble phenyl-azo-phenyl dyes. 3,661,889, 5-9-72, Cl. 260-207.1.

Lange, Guenther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Monoazo dyes containing a benzoisotaiazole. 3,658,784, 4-25-72, Cl. 260-158.

Lange, Gunter; and Ulderup, Jurgen, to Lemforder Metallwaren AG. Universal joint construction. 3,651,663, 3-28-72, Cl. 64-17.

Lange, Hans, to Deutsche Texaco Aktiengesellschaft. Method for controllable in-situ combustion. 3,700,035, 10-24-72, Cl. 166-261.000.

Lange, Helmut: *See*—
Thorwest, Harald; Lehmann, Helmut; Lange, Helmut; Schlossarek, Udo; Siefen, Jakob; and Mathner, Hermann, 3,688,567.

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Barth, Hans; Griess, Wilhelm; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Sagredos, Angelos, 3,663,446.
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Lange, Henry G. Multi-job router guide kit. 3,635,268, 1-18-72, Cl. 144-134.

Lange, Hertwig: *See*—
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Lange, Howard G. Method of screening a color image reproducing device. 3,695,871, 10-3-72, Cl. 96-1.200.

Lange, Joachim, to Kabel, Karl, Gesellschaft mit beschrankter Haftung. Free-standing household shelf arrangement. 3,636,893, 1-25-72, Cl. 108-111.

Lange, Joachim; Malitschek, Otto; and Mader, Fred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method of improving wax-containing self-polishing emulsions and product. 3,666,500, 5-30-72, Cl. 106-6.000.

Lange, Karl Heinz, to Balda Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft. Carrying strap mounting. 3,631,572, 1-4-72, Cl. 24-223.

Lange, Karl Heinz, to Balda Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft. Photographic camera with electrically operated film metering and timing mechanism. 3,683,774, 8-15-72, Cl. 95-31.0fm.

Lange, Karl Heinz, to Balda Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft. Adjustable camera-objective. 3,696,725, 10-10-72, Cl. 95-45.000.

Lange, Karl-Heinz, to Balda-Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft. Cameras with mechanically ignited flashcubes. 3,680,454, 8-1-72, Cl. 95-11.001.

Lange, Lawrence H.: *See*—
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Lange, Martin, Jr., to Koss Electronics, Inc. Electrostatic headphone. 3,632,903, 1-4-72, Cl. 179-111.

Lange, Paul: *See*—
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Lange, Wilfried: *See*—
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Lange, Wilfried. Pneumatic percussion device. 3,633,459, 1-11-72, Cl. 91-401.

Lange, Wilfried. Pneumatic stapling device. 3,657,968, 4-25-72, Cl. 91-398.

Langecker, Erhard. Process for the application of a label on a hollow body made of thermoplastic material. 3,657,405, 4-18-72, Cl. 264-89.

Langecker, Erhard. Apparatus for applying labels or plates to blow molded thermoplastic hollow bodies. 3,684,418, 8-15-72, Cl. 425-122.000.

Langelan, Harry C.: *See*—
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Langella, Dominick W. Insulator with conductor piercing clamp for insulated cable. 3,674,916, 7-4-72, Cl. 174-169.000.

Langemann, Albert: *See*—
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Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,655,650.

Langen, Marinus J. M., to Consolidated Paper (Bahamas) Limited. Carton loading machine. 3,645,068, 2-29-72, Cl. 53-186.

Langenbach, Erwin; and Erdmann, Jurgen, to Sick, Erwin, Firma. Photoelectric weft bobbin feeler for looms for monitoring the yarn stock on weft bobbins. 3,631,901, 1-4-72, Cl. 139-273.

Langenbeck, Peter H., to Perkin-Elmer Corporation, The. Method and apparatus for observing detecting and correcting periodic structures in a moving web. 3,633,037, 1-4-72, Cl. 250-219.

Langendorf, Matthew P.; and Ridings, Charles L., to International Business Machines Corporation. Tone actuated dictation systems with voice buffer option. 3,647,985, 3-7-72, Cl. 179-100.1.

Langendorf, Matthew P., to International Business Machines Corporation. Tone controlled dictation apparatus. 3,691,300, 9-12-72, Cl. 179-6.00e.

Langendorfer Plastics Corporation: *See*—
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Langendorfer, Walter J.; and Coffin, David W., Sr., to Langendorfer Plastics Corporation. Face goggles. 3,705,760, 12-12-72, Cl. 351-44.000.

Langenhoff, Ferdinand; Termin, Erich; Bleh, Otto; and Lenz, Arnold, to Dynamit Nobel Aktiengesellschaft. Production of vanadium oxytrichloride. 3,684,433, 8-15-72, Cl. 23-19.00v.

Langenhop, John Herman, to AMF Incorporated. Inter-conveyor turn device. 3,664,485, 5-23-72, Cl. 198-78.

Langensiepen, Max, Kom. Ges. Emmendingen: *See*—
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Langenstein, Julius. Lawn edge trimmer. 3,693,255, 9-26-72, Cl. 30-276.000.

Langer, Alfred: *See*—
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Langer, Alfred C.: *See*—
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Langer, Arthur W., Jr.: *See*—
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Langer, Arthur W., Jr., to Esso Research and Engineering Company. Preparation of linear olefin products. 3,647,912, 3-7-72, Cl. 260-683.15.

Langer, Arthur W., Jr., to Esso Research and Engineering Company. Process for producing linear alpha olefins. 3,655,812, 4-11-72, Cl. 260-683.15.

Langer, Arthur W., Jr., to Esso Research and Engineering Company. Process for preparing linear olefins. 3,662,021, 5-9-72, Cl. 260-683.15.

Langer, Arthur W., Jr., to Esso Research and Engineering Company. Process for lithiating ferrocene. 3,663,585, 5-16-72, Cl. 260-439.

Langer, Horst G.: *See*—
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Langer, Horst G., to Dow Chemical Company, The. Furnace assembly for thermal analysis use. 3,634,591, 1-11-72, Cl. 13-31.

Langer, Horst G.; Karle, Franklin J.; and Ayers, Earl D., to Dow Chemical Company, The. Differential thermal analysis cell assembly. 3,667,278, 6-6-72, Cl. 73-15.

Langer, Horst G., to Dow Chemical Company, The. Differential thermal analysis cell assembly. 3,667,279, 6-6-72, Cl. 73-15.

Langer, Philippe. Method and apparatus for the measurement of duration of ultra short pulses of monochromatic light. 3,641,343, 2-8-72, Cl. 250-71.

Langer, Stanley H., to Wisconsin Alumni Research Foundation. Polymeric tetrahaloterephthalate esters. 3,666,792, 5-30-72, Cl. 260-475.

Langewis, Cornelis, to Kaiser Aluminum & Chemical Corporation. Container forming apparatus. 3,678,725, 7-25-72, Cl. 72-344.000.

Langford, Obie M., to Texaco Inc. High voltage connector for a neutron generator comprising a plastic insulator. 3,657,536, 4-18-72, Cl. 250-84.5.

Langguth, Robert P.: *See*—
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Langham, J. Michael. Digital variable frequency oscillator. 3,675,146, 7-4-72, Cl. 331-1.00r.

Langham, Maurice Edward, to United States of America, Health, Education and Welfare. Treatment of glaucoma employing 5-(3-methylaminopropyl)5H-dibenzo(a,d)cycloheptene. 3,644,647, 2-22-72, Cl. 424-330.

Langhammer, Arthur C. Spinal area back supporter and massaging device. 3,672,360, 6-27-72, Cl. 128-67.000.

Langhammer, Hans Jurgen: *See*—
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Langhans, Roy Kenneth, to ICI America Inc. Baking process using polyoxyethylene fatty ethers as softeners and conditioners. 3,703,380, 11-21-72, Cl. 99-91.000.

Langhi, Bruno A., to Ever-Ready Appliance Mfg. Co. Pegboard item. 3,650,502, 3-21-72, Cl. 248-225.

Langhoff, Boris, to Krauss & Reichert Spezialmachinenfabrik. Knife grinding device for a motor-driven cutting tool. 3,703,056, 11-21-72, Cl. 51-246.000.

Langhoff, Josef: *See*—
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Langieri, Michael, Jr.; and Watts, Lennox, to Questor Corporation. Educational toy adding machine. 3,706,876, 12-19-72, Cl. 235-74.000.

Langkammerer, Carl M., to Du Pont de Nemours, E. I., and Company. Unsaturated ketones. 3,642,904, 2-15-72, Cl. 260-590.

Langkammerer, Carl M., to Du Pont de Nemours, E. I., and Company. Pharmaceutical composition comprising certain 1,3-substituted cycols. 3,662,071, 5-9-72, Cl. 424-275.

Langkammerer, Carl M., to Du Pont de Nemours, E. I., and Company. Pharmaceutical composition comprising certain $\alpha\beta$-unsaturated ketones. 3,689,659, 9-5-72, Cl. 424-275.000.
Langkopf, Herbert Reinhold. Apparatus for processing photographic material. 3,633,487, 1-11-72, Cl. 95-89.
Langlade, Pierre: *See—*
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Langlais, Rene N., to Texas Instruments, Incorporated. Manufacture of perforated metal foil. 3,654,115, 4-4-72, Cl. 204-216.
Langley, Charles J. Body-engaging extensible exercising device. 3,638,939, 2-1-72, Cl. 272-79.
Langley, Clyde H.: *See—*
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Langley, Lawrence W., to Symbionics, Incorporated. Circuit for processing reflected signals. 3,651,433, 3-21-72, Cl. 333-970.
Langley, Lawrence W., to Symbionics, Incorporated. Scanning system for yielding a three-dimensional display. 3,705,261, 12-5-72, Cl. 178-6.500.
Langley, Robert C., to Engelhard Minerals & Chemicals Corporation. Value metal base electrode coated with $Pb_2Ru_2O_6$ or $Pb_2Ir_2O_6$. 3,691,052, 9-12-72, Cl. 204-290.00f.
Langley, Robert E., to Snorkel Fire Equipment Company. Fluid power device. 3,680,713, 8-1-72, Cl. 212-35.0hc.
Langley, Thomas W.; and Cloud, Robert A., to Texaco Inc. Open back shed loom. 3,636,986, 1-25-72, Cl. 139-17,.
Langlinais, Vernon L., to Morton-Norwich Products, Inc., mesne. Distributing apparatus. 3,635,326, 1-18-72, Cl. 198-52.
Langlit, Karl-Heinz: *See—*
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Langlois, Gordon E.; Olson, Lloyd J.; and Rudy, Charles E., Jr., to Chevron Research Company. Iron removal. 3,684,700, 8-15-72, Cl. 208-251.000.
Langlois, Henry J., to American Standard, Inc. Oil mist eliminator for a fluid drive. 3,633,341, 1-11-72, Cl. 55-186.
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Langner, Carl G.; and Visser, Robert C., to Shell Oil Company. Method for connecting flowlines to a platform. 3,699,691, 10-24-72, Cl. 61-72.300.
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Langowski, Faustyn C.; and Turner, John W., Jr., to Jackson, Byron, Inc. Horizontal pipe racking and handling apparatus. 3,655,071, 4-11-72, Cl. 214-2.5.
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Lanham, Betty U.: *See—*
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Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr. Conveyor system. 3,680,493, 8-1-72, Cl. 107-57.00c.
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Lanier, Carroll W., to Ethyl Corporation. Process for producing high purity straight chain aluminum alkyl compounds from olefin mixtures containing vinyl olefins and non-vinyl olefins. 3,686,250, 8-22-72, Cl. 260-448.00a.
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Lanius, James Curtis, Jr., to Illinois Tool Works Inc. Drilling and reaming screw. 3,699,841, 10-24-72, Cl. 85-41.000.
Lankard, David R.; and Sheets, Herbert D., Jr., to United States Steel Corporation. Composition for marking hot metal. 3,640,737, 2-8-72, Cl. 106-19.
Lankenau, Richard F. Bottom opening shellfish trap. 3,699,702, 10-24-72, Cl. 43-100.000.
Lankford, Barre D.; and Lanham, Charles W.; deceased (by Lanham, Betty U.; administratrix), to Entron, Inc. Coaxial connector means affording alternate 90° seizure. 3,675,181, 7-4-72, Cl. 339-32.00r.
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Lankheet, Jay A., to Glamour Pools Company. Enclosures for pools and the like. 3,662,410, 5-16-72, Cl. 4-172.12.
Lanmon, C. P., II, to Schlumberger Technology Corporation. Apparatus for perforating earth formations. 3,695,368, 10-3-72, Cl. 175-4.520.
Lanmon, C. P., II, to Schlumberger Technology Corporation. Apparatus for perforating earth formations. 3,707,195, 12-26-72, Cl. 175-4.520.
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Lanning, Walter C., to Sperry Rand Corporation. Apparatus for converting numbers between positive and negative radices. 3,652,840, 3-28-72, Cl. 235-155.
Lanning, Walter C., to Sperry Rand Corporation. Apparatus for converting numbers between positive and negative radices. 3,652,841, 3-28-72, Cl. 235-155.
Lanning, William C.; and Gall, James W., to Phillips Petroleum Company. In situ gelation of polymers during waterflooding. 3,658,129, 4-25-72, Cl. 166-270.
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Lany, Jan, to Vitkovike zelezarny Klementa Gottswalda, narodni podnik. Apparatus for marking moving objects. 3,659,521, 5-2-72, Cl. 101-4.
Lanz, Donald D. Chain saw anti-pinch guard arm. 3,636,996, 1-25-72, Cl. 143-32.
Lanza, Franco; and Marengo, Giuseppe, to European Atomic Energy Community (Euratom). Graphite impregnated with bismuth-nickel alloy. 3,664,865, 5-23-72, Cl. 117-160.00r.
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Laos, Ivar, to Searle, G. D., & Co. 1-Farnesylacetyl-4-hydroxyalkylpiperazines. 3,646,036, 2-29-72, Cl. 260-268.
Laos, Ivar; and Baran, John S., to Searle, G. D., & Co. Sulfated 11β-methyl estrogens. 3,657,290, 4-18-72, Cl. 260-397.45.
Laosig, Harry; and Grosshauser, Anton, to Fordertechnik Hamburg Harry Lassig. Method of welding sheets, particularly shrink-on-sheets which have been wrapped around a pallet cargo aud apparatus therefor. 3,685,233, 8-22-72, Cl. 53-33.000.
Lapaich, Michael W., to Clark Equipment Company. Retractable latching mechanism. 3,682,432, 8-8-72, Cl. 248-361.00r.
LaPalme, Camille V.: *See—*
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Lapera, Doninic J., to Parker-Hannifin Corporation. Fuel nozzle with modulating primary nozzle. 3,675,853, 7-11-72, Cl. 239-464.000.
Lapeyre, James M. Method of installing breakwater caissons. 3,640,075, 2-8-72, Cl. 61-5.
Lapeyre, James M., to Laitram Corporation, The. Shrimp separating and peeling machine. 3,685,098, 8-22-72, Cl. 17-73.000.
Lapeyre, James M.; and Couret, Robert F., to Laitram Corporation, The. Insert rolls for shrimp peeling machines. 3,704,484, 12-5-72, Cl. 17-73.000.
Lapeyre, James M.; and Couret, Robert F., to Laitram Corporation, The. Insert holddown devices. 3,706,113, 12-19-72, Cl. 17-73.000.
Lapham, Sidney D. Drop platform structure for a loading dock. 3,699,599, 10-24-72, Cl. 14-71.000.
Lapham, Thomas B.; and Feldberg, Leonard H., to Burndy Corporation. Mounting for integrated circuits. 3,663,920, 5-16-72, Cl. 339-17.
Lapidas, Manuel; and Maull, John C. Yarn winding mechanism. 3,706,420, 12-19-72, Cl. 242-43.000.
Lapidus, Mikhail Khaimovich: *See—*
Ioffe, Benyamin Alexandrovich; Mikelson, Artur Eduardovich; Makhlin, Aron Judovich; Lapidus, Mikhail Khaimovich; Salnikov, Jury Nikolaevich; Kazhe, Alexandr Zhanovich; and Trushelis, Ivan Avgustovich, 3,651,439.
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Lapidus, Roy. Bed pad. 3,653,083, 4-4-72, Cl. 5-348.
Lapinas, Zigmas J.; and Wong, Moses See Sum. Fluidic oscillator. 3,682,189, 8-8-72, Cl. 137-81.500.
Lapinig, Stephanie N. Pumpkin pickle. 3,650,772, 3-21-72, Cl. 99-156.
Lapkin, Konstantin Vasilievich; Romanov, Georgy Fedorovich; Goloviznin, Vladimir Ilich; and Popov, Lev Mikhailovich. Dilator for performing mitral and tricuspidal commissurotomy per atrium cordis. 3,667,474, 6-6-72, Cl. 128-345.
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Fuzesi, Stephen; and Lapkin, Milton, 3,699,060.
Laplante, Jerry C.; and Poole, Thomas A., to Alloys Unlimited Inc. Method of powder rolling nickel-iron-cobalt alloys. 3,667,942, 6-6-72, Cl. 75-214.000.
Laplume, Jacques, to Societe d'Etudes Techniques et d'Entreprises Generales (SODETEG). Teaching machine. 3,660,912, 5-9-72, Cl. 35-9.00a.
Laplume, Jacques, to Societe d'Etudes Techniques et d'Entreprises Generales (SODETEC). Teaching machine in which instruction items are projected by an image projector. 3,665,615, 5-30-72, Cl. 35-9.00a.
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Lappage, James. Method and apparatus for forming yarn. 3,695,019, 10-3-72, Cl. 57-38.300.
Lappe, Franz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Diaphragm cell for the electrophoresis of substance mixtures. 3,668,107, 6-6-72, Cl. 204-301.000.
Lappin, Douglas E. Sectional articulated agricultural apparatus. 3,705,560, 12-12-72, Cl. 111-85.000.
Lappin, Gerald R.; and McConnell, Wayne V., to Eastman Kodak Company. 2-Hydroxy-4-(2-hydroxyethoxy) benzophenone esters and their use as stabilizers. 3,644,485, 2-22-72, Cl. 260-475.
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Lard, Edwin W.; and White, Addison C., to Grace, W. R., & Co. Method of producing nonburning paper. 3,654,073, 4-4-72, Cl. 162-145.
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Lard, Edwin W., to Grace, W. R., & Co. Curable liquid polyene-polythiol compositions containing polyacrylicacid and derivatives thereof. 3,701,721, 10-31-72, Cl. 204-159.160.
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Larenzo, Leroy N.; and Banjavich, Mark P., to Taylor Diving & Salvage Co., Inc. Method for supplying heated fluid to a diver's clothing. 3,644,706, 2-22-72, Cl. 219-211.
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Larker, Hans; and Nilsson, Jan, to Allmanna Svenska Elektriska Aktiebolaget. Press for hot hydrostatic extrusion. 3,702,555, 11-14-72, Cl. 72-60.000.
Larker, Hans; and Nilsson, Jan, to Allmanna Svenska Elektriska Aktiebolaget. Method of hydrostatic extrusion. 3,702,556, 11-14-72, Cl. 72-60.000.
Larkfeldt, Birger, to Aktiebolaget Svenska Flaktfabriken. Supply air device for injection of perferably cold ventilation air. 3,631,788, 1-4-71, Cl. 98-40.
Larkfeldt, Birger; and Petersson, Rolf. Ventilated fluorescent tube fixture. 3,693,530, 9-26-72, Cl. 98-40.0dl.
Larkfeldt, Birger, to Aktiebolaget Svenska Flaktfabriken. Supply air device for injection of preferably cold ventilation air. 3,699,871, 10-24-72, Cl. 98-40.00d.
Larkin, Clyde F., Jr. Method for metering a cleaning solution for a vehicle wheel. 3,660,159, 5-2-72, Cl. 134-32.
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Larkin, Donald R., to Celanese Corporation. Preparation of bis (2-hydroxyalkyl) esters of terephthalic or isophthalic acid. 3,706,785, 12-19-72, Cl. 260-475.0pr.
Larkin, John M., to Texaco Inc. 2,6-Disubstituted-9-oxabicyclononanes and methods of preparing same. 3,636,056, 1-18-72, Cl. 260-345.1.
Larkin, John M.; and Chafetz, Harry, to Texaco Inc. Process for producing alkanoic acids from nitroketones. 3,661,950, 5-9-72, Cl. 260-413.
Larkin, Mark E., to Phillips Petroleum Company. Method and apparatus for forming plastic-lined metal conduit. 3,639,970, 2-8-72, Cl. 29-411.
Larkin, Robert B., to Mills Products, Inc. Thermostatically controlled heat shield for window units in pyrolytic ovens. 3,643,647, 2-22-72, Cl. 126-198.
Larkin, Sam. Wire mesh making. 3,651,834, 3-28-72, Cl. 140-3.
Larkin, Sam. Audio-video system employing sound track tape belts movably mounted on projection slides. 3,671,115, 6-20-72, Cl. 353-19.00.
Larkin, Thomas J., to Cartridge Television, Inc. Tape guide system having pick-up elements with conical engaging surfaces for tape course conversion. 3,665,120, 5-23-72, Cl. 179-100.2.
Larkin, Thomas J., to Cartridge Television, Inc., mesne. Video tape pick-up and guide system for cartridge type reproducing and/or recording system. 3,673,348, 6-27-72, Cl. 179-100.20f.
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Larmurier, Claude Fernand Emile, to Compagnie des Compteurs. Fluidic-pneumatic devices with forces balancing. 3,677,078, 7-18-72, Cl. 73-141.00r.
LaRocca, Aldo V. Propellant device. 3,636,709, 1-25-72, Cl. 60-203.
Laroche, Robert. Cutting device for fibrous materials. 3,651,726, 3-28-72, Cl. 83-169.
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Larocque, Patricia Powers: *See—*
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Larrison, John E., to Hughes Aircraft Company. Apparatus for handling and bonding flip-chips to printed circuit substrates. 3,657,790, 4-25-72, Cl. 29-203.
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Larrison, Spencer Lee. Musical instrument. 3,691,285, 9-12-72, Cl. 84-1.160.
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Larry, John R., to Du Pont de Nemours, E. I., and Company. Method of improving line resolution in screen printing. 3,672,934, 6-27-72, Cl. 117-38.000.
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Larsen, Arthur B., to Bell Telephone Laboratories, Incorporated. Heterodyne scanning system for hologram transmission. 3,636,249, 1-18-72, Cl. 178-6.5.
Larsen, Arthur Bertel; Sosnowski, Thomas Patrick; and Townsend, Richard Lee, Jr., to Bell Telephone Laboratories, Incorporated. Single-tube color cameras with optical spatial frequency filters. 3,681,519, 8-1-72, Cl. 178-5.0st.
Larsen, Arthur Bertel, to Bell Telephone Laboratories, Incorporated. Color television system with automatic correction of chroma amplitudes. 3,699,241, 10-17-72, Cl. 178-5.4ac.
Larsen, Arthur L., to Marathon Oil Company. Film forming hydrazine-containing corrosion inhibitor. 3,645,896, 2-29-72, Cl. 252-8.55.

Larsen, Arthur L. Process for regenerating resins of deionization system. 3,691,109, 9-12-72, Cl. 260-2.10r.
Larsen, Arthur Lee, to Marathon Oil Company. Detergent gasoline composition. 3,639,110, 2-1-72, Cl. 44-72.
Larsen, Aubrey A.; and Uloth, Robert H., to Mead Johnson & Company. N-(alkyl) alkanesulfonamidophenethanolamines. 3,660,487, 5-2-72, Cl. 260-556.
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Larsen, Earl I. Tungsten-nickel-iron-molybdenum die casting shaping members. 3,656,731, 4-18-72, Cl. 249-135.
Larsen, Earl I.; and Krock, Richard H., to Mallory, P. R., & Co., Inc. Bonding of metallic members with lithium and lithium containing alloys. 3,668,755, 6-13-72, Cl. 29-199.000.
Larsen, Elmer L., to McGraw-Edison Company. Constant torque device for meter reading system. 3,664,197, 5-23-72, Cl. 74-1.500.
Larsen, Eric R.: *See—*
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Larsen, Gregory J., to Wayne Manufacturing Company. Road sweeper suction hood draft connection. 3,634,903, 1-18-72, Cl. 15-340.
Larsen, Gregory J., to Wayne Manufacturing Company. Road sweeper suction and dirt chamber connection. 3,634,904, 1-18-72, Cl. 15-340.
Larsen, Gregory J., to Wayne Manufacturing Company. Runway or street sweeper. 3,636,585, 1-25-72, Cl. 15-340.
Larsen, Gunnar Hartvig: *See—*
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Wolff, Per; and Larsen, Hans-Ole, 3,637,540.
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Larsen, Jack H.; Trier, Louis J.; and Rytina, Anton W., to Brunswick Corporation. Wearable disposable covering of heat shrink film. 3,634,954, 1-18-72, Cl. 36-7.3.
Larsen, John, to Fyens Saekkekom-pagni A/S. Method of and apparatus for filling a tube or a hose with a solid material, preferably sand. 3,692,070, 9-19-72, Cl. 141-1.000.
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Larsen, Kurt K., to Blue Giant Equipment of Canada Limited. Straddle assembly. 3,638,961, 2-1-72, Cl. 280-150.
Larsen, Lester J., to Bendix Corporation, The. Hydraulic boost device with emergency fluid supply. 3,633,363, 1-11-72, Cl. 60-51.
Larsen, Preben, to Danfoss A/S. Washing machine. 3,645,117, 2-29-72, Cl. 68-140.
Larsen, Raymond B., to Datel Corporation. Coaxial reel tape transport system. 3,684,208, 8-15-72, Cl. 242-188.000.
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Larsen, Ronald L., to Conwed Corporation. Method for bias cutting a tubular net. 3,674,898, 7-4-72, Cl. 264-146.000.
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Larson, Alworth D.; Braymer, Hugh D.; and Broussard, Evest A., III, to Research Corporation. Method for bacterial proteinase. 3,692,631, 9-19-72, Cl. 195-66.00r.
Larson, Carl B.; and Gimbel, William T. Apparatus for conveying, handling, loading, and unloading of palletized materials. 3,675,801, 7-11-72, Cl. 214-310.000.
Larson, Charles L.: *See—*
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Larson, Charles O., to Larson, Chas. O., Co. Sawhorse bracket assembly. 3,656,581, 4-18-72, Cl. 182-224.
Larson, Charles O., to Larson, Chas. O., Co. Panel fastener clip. 3,656,786, 4-18-72, Cl. 287-189.35.
Larson, Charles O., to Larson, Chas. O., Co. Display stand. 3,693,807, 9-26-72, Cl. 211-163.000.
Larson, Charles O., to Larson, Chas. O., Co. Display stand. 3,695,455, 10-3-72, Cl. 211-78.000.
Larson, Charles R.; and Dudley, Robert H., to Prab Conveyors, Inc. Continuous chip processing system. 3,656,620, 4-18-72, Cl. 210-110.
Larson, Charles R.; and Dudley, Robert H., to Prab Conveyors, Inc. Metal and plastic chip wringing apparatus and process. 3,679,051, 7-25-72, Cl. 210-73.000.
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Larson, Clarence E.; and Dawley, Richard H., to Martin-Marietta Corporation. Constant volume discharge gate. 3,655,104, 4-11-72, Cl. 222-317.
Larson, Clarence E.; and Schneider, Harold G., to Martin-Marietta Corporation. Lifting tongs. 3,697,117, 10-10-72, Cl. 294-106.000.
Larson, Daniel A., to Westinghouse Electric Corporation. High-pressure gaseous discharge lamp including a starting electrode. 3,634,718, 1-11-72, Cl. 313-198.
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Larson, Eugene R. Method of making a self-thread forming fastener with easy thread pickup. 3,683,437, 8-15-72, Cl. 10-10.000.
Larson, Floyd G., Jr.; and De Barbadillo, John J., II, to International Nickel Company, Inc., The. Austenitic stainless steels adapted for exhaust valve applications. 3,649,251, 3-14-72, Cl. 75-128.
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Larson, Gustav Olof. Negative logarithm-decimal conversion. 3,639,733, 2-1-72, Cl. 235-69.
Larson, Harold A.: *See—*
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Larson, Harry T.; and Loewe, Richard T. Encoding device. 3,697,687, 10-10-72, Cl. 178-18.000.
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Triplett, Robert D.; and Laue, Terry J., 3,637,224.
Lauer, James L. Apparatus for removing sulfur dioxide from stack gases. 3,676,318, 7-11-72, Cl. 204-193.000.
Lauer, Karl; Budka, Heinz-Gunter; and Stoeck, Georg, to Boehringer Mannheim G.m.b.H. Process for the chromatographic separation of multi-component mixtures. 3,686,117, 8-22-72, Cl. 210-31.00c.
Lauer, Karl; and Stephan, Peter. Process and apparatus for the continuous production of solutions. 3,692,579, 9-19-72, Cl. 127-22.000.
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Lauersdorf, Duane H.: *See—*
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Laupman, Robert Ronald, to N.V. Auco. Current control device. 3,638,043, 1-25-72, Cl. 307-252.
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Laura, James F.; and Eng, Albert, to Foto-Mem, Inc. Image storage and retrieval system. 3,689,894, 9-5-72, Cl. 340-172.500.
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Laurenty, Francois, mesne: *See*—
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Laurich, Lawrence A.: *See*—
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Laurita, Joseph N., to Lark Luggage Corporation. Handle assembly. 3,692,155, 9-19-72, Cl. 190-57.000.
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Laussermair, Friedrich; and Ziemer, Albrecht, to Maschinenfabrik Ausburg-Nurnberg, Aktiengesellschaft. High speed roller bearing. 3,680,934, 8-1-72, Cl. 308-212.000.
Lauster, Frederick L.; and Fantle, Sheldon W., to Lafant Research Company. Preparation of use in mouthwash having effervescence. 3,651,207, 3-21-72, Cl. 424-50.
Lauster, Frederick L., to Lafant Research Company. Dentifrice for periodontia purposes. 3,651,208, 3-21-72, Cl. 424-54.
Lauster, Frederick L., to Cameo, Inc. Liquid dentifrice. 3,683,065, 8-8-72, Cl. 424-57.000.
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Laventman, Vilyam Efimovich: *See—*
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Laverette, Samuel R.: *See—*
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Lavin, Sheldon: *See—*
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Lavrischev, Vadim Petrovich: *See—*
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Law, Derek A., to Mobil Oil Corporation. Complex nitrogen-containing aromatic borates as stabilizers for organic compositions. 3,682,935, 8-8-72, Cl. 260-296.00b.

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Law, Jack M., to Optics Technology, Inc. Method of making high resolution image transmitting fiber optics bundles. 3,690,853, 9-12-72, Cl. 65-4.000.

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Lawford, Victor Nicholas, to International Telephone and Telegraph Corporation. Instrument pressure calibration method and apparatus. 3,696,659, 10-10-72, Cl. 73-4.00r.

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Lawler, Craig M.: *See—*
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Lawner, Arnold M.: *See—*
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Lawrence, Frederick R.; and Sullivan, Robert H., to Du Pont de Nemours, E. I., and Company. Process for making a dioxane. 3,687,981, 8-29-72, Cl. 260-340.700.
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Lawrence, George; and Mueller, Hans J., to International Business Machines Corporation. Flexible disk magnetic recording device. 3,688,285, 8-29-72, Cl. 340-174.010.
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Lawrence, Joseph W., to Atlas Chemical Industries, Inc. Detonator comprising N-nitro-N-methylglucamine pentanitrate. 3,631,802, 1-4-71, Cl. 102-28.
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Le Blanc, Leo J., Sr. Laser beam folding device. 3,660,778, 5-2-72, Cl. 331-94.5.
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Leavitt, Clyde M.; Johnson, Walter C.; and Hall, Con C., IV, to Litton Systems, Inc. Method and apparatus for handling ships. 3,670,682, 6-20-72, Cl. 114-45.000.
Leavitt, John N.; Alas, Raigo; and Dafoe, Edwin C., to Canadian Westinghouse Company Limited. Stabilized camera mount. 3,638,502, 2-1-72, Cl. 74-5.34.
Leavitt, Minard A.; and Roulund, Poul B., to Cutler-Hammer, Inc. Apparatus for holding two films in intimate contact with each other. 3,667,845, 6-6-72, Cl. 355-91.000.
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Coty, Vernon F.; Heilweil, Israel J.; and Leavitt, Richard I., 3,672,953.
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Vogeli, Rudolf, 3,674,116.
Leban, Carl, 33 1/3 to Stanger, Leo. Method and means for encoding and decoding ideographic characters. 3,665,450, 5-23-72, Cl. 340-324.
Lebduska, Robert L.: *See—*
Meckel, Benjamin B.; and Lebduska, Robert L., 3,676,672.
Lebedeff, Yurii E.; and Klein, William C.; deceased, to American Smelting and Refining Company. Process for de-copperizing lead. 3,694,191, 9-26-72, Cl. 75-78.000.
Lebedev, Vladimir Konstantinovich: *See—*
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Pentegov, Igor Vladimirovich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Podola, Nikolai Vasilievich; and Emelyanenko, July Georievich, 3,665,081.
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Lebedev, Vyacheslav Ivanovich: *See—*
Zhukov, Gennady Konstantinovich; Krylov, Nikolai Ivanovich; Lebedev, Vyacheslav Ivanovich; Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Vasilenko, Sergei Iosifovich; Kondratiev, Valentin Vasilievich; and Krokhin, Neste Ivanovich, 3,633,397.
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Lebel, Pierre Henri: *See—*
Job, Claude; Landler, Yvan; Lebel, Pierre Henri; and Meillat, Lucile, 3,650,874.
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Leber, Don. Vehicle backing guidance device. 3,670,423, 6-20-72, Cl. 33-46.0as.
Leber, Jean Pierre; and Lutz, Karl, to Sandoz Ltd., a/k/a Sandoz AG. O-(1-alkoxycarbonyl-1-propen-2-yl)-phosphorodihalidates and- phosphorodihalothionates. 3,634,556, 1-11-72, Cl. 260-941.
Leber, Jean-Pierre, to Sandoz Ltd.; a/k/a Sandoz AG. Phosphoric acid ester amidohalides. 3,649,719, 3-14-72, Cl. 260-941.
Leber, Jean-Pierre, to Sandoz Ltd.; a/k/a Sandoz AG. O-Alkyl-O-(1-carboalkoxy-1-propen-2-yl) phosphorachloridates and phosphorothiochlorodates. 3,649,720, 3-14-72, Cl. 260-941.
Leberl, Gerfried: *See—*
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Lebert, Herbert A. Smoking pipe. 3,645,274, 2-29-72, Cl. 131-198.
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Leblanc, G., Corporation: *See—*
Glantz, Alvin; and Walters, Arvid, 3,631,755.
Pascucci, Vito, 3,657,464.
LeBlanc, Leo J., Sr. Windshield wiper assembly. 3,648,323, 3-14-72, Cl. 15-250.22.
LeBlanc, Placide N. Device for everting a sleeve of flexible material. 3,643,840, 2-22-72, Cl. 223-42.
Leblon, Emile: *See—*
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Leblond, Jean; Biet, Jean; and Danneels, Guy, to Uniroyal Englebert France S.A. Tire building machine. 3,654,828, 4-11-72, Cl. 83-23.
Leblond, Jean, to Uniroyal Englebert France S.A. Bagless tire press. 3,659,975, 5-2-72, Cl. 425-36.
Leblond, Jean, to Uniroyal Englebert France S.A. Method of building an annular breaker. 3,674,582, 7-4-72, Cl. 156-133.000.
Leblond, Jean, to Uniroyal Englebert France S.A. Expansible and contractible transfer ring. 3,674,603, 7-4-72, Cl. 156-394.000.
Leblond, Jean, to Uniroyal Englebert France S.A. Tire building drum having a magnetized surface. 3,676,262, 7-11-72, Cl. 156-417.000.
Leblond, Jean; and Biet, Jean, to Uniroyal Englebert France S.A. Load transfer apparatus. 3,696,949, 10-10-72, Cl. 214-16.40a.
Lebocey Industries: *See—*
Palencher, Jacques, 3,679,803.
Lebon & Cie (Cie Centrals d'Eclairage par l'Gas): *See—*
Tabary, Jean, 3,683,628.
Lebourg, Maurice P. Liner cementing apparatus. 3,635,288, 1-18-72, Cl. 166-156.
Lebourg, Maurice P. Drill bit construction. 3,635,296, 1-18-72, Cl. 175-404.
Lebourg, Maurice P. Drill bit. 3,640,355, 2-8-72, Cl. 175-329.
Leboutet, Hubert; Jaouen, Jean; and Aucouturier, Jeanne, to Thomson-CSF. Electron beam deflector system. 3,660,658, 5-2-72, Cl. 250-49.5.
Leboutet, Hubert, to Thomson-CSF. Stigmatic and achromatic system for deflecting a particle beam. 3,691,374, 9-12-72, Cl. 250-49.50d.
Lebovits, Alexander: *See—*
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Lebras, Louis R.: *See—*
Christenson, Roger M.; and Lebras, Louis R., 3,663,401.
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Lebreuil, Jean-Claude Gaston Clement. Helicoidal vibrating ramp handling apparatus. 3,680,683, 8-1-72, Cl. 198-220.0bc.
Lebrizz, Joseph M.: *See—*
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Lec Refrigeration Limited: *See—*
Lewis, Ronald W.; and Smith, Eric, 3,636,823.
Lecce, James G. Apparatus for feeding and maintaining neonatal piglets. 3,698,361, 10-17-72, Cl. 119-51.110.

Lech, Thaddeus: *See—*
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Lechaton, John S.: *See—*
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Lechene, Leo; and Campbell, John, to Fab Fibre Company. Bristle mat assembly for brushes. 3,643,282, 2-22-72, Cl. 15-179.

Lecher, Hans Z.: *See—*
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Lechleider, Joseph William: *See—*
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Lechler, Rolf; and Steinwart, Johannes, to Audi NSU Auto Union Aktiengesellschaft and Wankel GmbH. Liquid cooled housing for rotary piston engines. 3,691,999, 9-19-72, Cl. 123-8.01.

Lechner, Alfred: *See—*
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Lechner, Thomas J., Jr.: *See—*
Laakaniemi, Richard N.; Kuczkowki, Frank A.; Atkinson, Louis D.; Kuhar, Paul W.; Lechner, Thomas J., Jr.; and Weber, Urban A., 3,705,595.

Lechner, Thomas J., Jr., to Johnson Service Company. Apparatus and method for sensing the position of a surface. 3,682,191, 8-8-72, Cl. 137-81.500.

Lechner, Walter Ludwig: *See—*
Masson, Narinder; Korenicki, William John; and Lechner, Walter Ludwig, 3,677,084.
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Lecht, Charles P.; Harden, William O.; Lavell, Matthew J.; Kos, Stanley M.; and Pace, Robert A., to Advanced Computer Techniques Corporation. Calculating display board. 3,660,645, 5-2-72, Cl. 235-152.000.

Lecinski, Frank H., Jr., to Continental Can Company, Inc. Closure cap and package formed therewith. 3,690,497, 9-12-72, Cl. 215-40.000.

Leclair, Albert W.: *See—*
Benbrook, Charles H.; and Leclair, Albert W., 3,653,907.

Leclair, Albert W., to Nashua Corporation. Thermographic copy sheet containing guanidine compounds. 3,664,842, 5-23-72, Cl. 96-114.1.

Leclair, Albert W.; and Benbrook, Charles H., to Nashua Corporation. Thermographic copy sheet containing a benzo hydrazone. 3,685,996, 8-22-72, Cl. 96-101.000.

L'Eclairage des Vehicules Sur Rail (E.V.R.): *See—*
Lamorlette, Paul, 3,659,187.

Leclanche S.A.: *See—*
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Leclerc, Lucien. Folding door or the like. 3,640,333, 2-8-72, Cl. 160-183.

Leclerc, Pierre: *See—*
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Leclerc, Rejean: *See—*
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Leclercq, Richard L.: *See—*
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Leclere, Jacques: *See—*
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Lecoanet, Roland S.; and Lepagnol, Jean A. H., to International Standard Electric Corporation. System for recording and connecting waiting calls on a chronological basis. 3,692,950, 9-19-72, Cl. 179-27.00d.

Lecoeur, Jacques, to Eclair International. Interchangeable lenses camera mounting. 3,682,069, 8-8-72, Cl. 95-44.00r.

LeCompte, Frank M., to Tingley Rubber Corporation. Capstan type winch cover. 3,704,738, 12-5-72, Cl. 150-52.00r.

LeCompte, George W., to Hughes Aircraft Company. Tensile loading apparatus for moving wire. 3,643,497, 2-22-72, Cl. 73-95.5.

Lectour Communications Corporation: *See—*
McIntosh, Frank H., 3,644,833.

Lectromelt Corporation, mesne: *See—*
Wynne, Peter J., 3,684,261.

Leczkowski, Kurt. Method for automatic exposure control for photographs with flash-and mixed light and camera arrangement for such method. 3,687,029, 8-29-72, Cl. 95-10.0ct.

Lecznar, Chester J.: *See—*
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Ledac, Alain: *See—*
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Ledbetter, Harvey D.: *See—*
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Ledden, Howard Patrick; and Muller, Klaus, to American Cyanamid Company. Pollution control in phosphate slime disposal. 3,707,523, 12-26-72, Cl. 260-41.00r.

Leddy, James J.: *See—*
Bergeron, Grafton; and Leddy, James J., 3,705,090.
Gritzner, Gerhard; and Leddy, James J., 3,635,804.

Leddy, Robert. Method and article for installing aluminum siding. 3,662,510, 5-16-72, Cl. 52-748.000.

Ledebur, Harry C., to Wean Industries, Inc. Drawing of metal tubing. 3,668,916, 6-13-72, Cl. 72-274.000.

Leder, Frederic, to Esso Research and Engineering Company. Process for removing acid gases from gaseous method. 3,637,345, 1-25-72, Cl. 23-2.

Leder, Lewis B.: *See—*
Adams, James E.; Leder, Lewis B.; and Haas, Werner E. L., 3,679,290.
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Lederer, David B.: *See—*
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Carter, Daniel E.; Lederer, David B.; and Perlman, David E., 3,651,324.

Lederer, Edwin H., to General Electric Company. Semiconductor lead attachment system including a semiconductor pellet orientation plate. 3,706,409, 12-19-72, Cl. 228-6.000.

Lederer, Gerald: *See—*
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Lederer, Michael; and Siegfried, Sommer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for producing polymers of tertiary amides. 3,696,085, 10-3-72, Cl. 260-80.30n.

Lederer, Milton Ronald, Jr. Bumper assembly for boats. 3,688,728, 9-5-72, Cl. 114-219.000.

Lederer, Seymour J.: *See—*
Fertig, Joseph; and Lederer, Seymour J., 3,642,044.

Lederer, Seymour J., to Merck & Co., Inc. Method for controlling and inhibiting the formation and growth of slime in industrial water systems. 3,658,700, 4-25-72, Cl. 210-64.

Ledergerber, Alfred; and Jacoby, Hans, to Werkzeugmaschinenfabrik Gildemeister & Comp. Akg.-Ges. Machine tool. 3,643,307, 2-22-72, Cl. 29-38.

Ledergerber, Alfred; Jacoby, Hans; and Fenghler, Gerd, to Werkzeugmaschinenfabrik Gildemeister & Comp. AKT.-Ges. Multiple spindle machine tool with hydrodynamic bearings for work spindles. 3,686,986, 8-29-72, Cl. 82-30.000.

Ledergerber, Alfred, to Werkzeugmaschinenfabrik Gildemeister & Comp. Akt.-Ges. Multiple-spindle machine tool. 3,688,364, 9-5-72, Cl. 29-38.00d.

Ledergerber, Anton, to Inventa AG fur Forschung und Patentverwertung. Method for granule pulverization. 3,658,259, 4-25-72, Cl. 241-5.

Lederman, Sol J.: *See—*
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Prahl, Walter H.; and Lederman, Sol J., 3,673,262.

Lederrey, Marc; and Grenchen, Canton, to Schlup & Cie, S.A. Watertight watchcase for wrist-watches. 3,640,065, 2-8-72, Cl. 58-90.

Ledesma, Antonio, Jr.: *See—*
Conklin, Clayton E.; Ledesma, Antonio, Jr.; and Bautista, Moises R., 3,656,669.

Ledet, Stephen J., Jr.: *See—*
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Ledet, Winston P.: *See—*
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Ledford, Nathan Dale, to Velsicol Chemical Corporation. Process for the production of para-chlorobenzoic acid. 3,681,446, 8-1-72, Cl. 260-524.00r.

Ledgett, Lowell Ashton, to Colgate-Palmolive Company. Porous ring feed head. 3,677,714, 7-18-72, Cl. 23-285.000.

Ledig, Kurt W.: *See—*
Begany, Albert J.; Ledig, Kurt W.; Oliver, Donald W.; and Wendt, Gerhard R., 3,642,842.
Wendt, Gerhard R.; Ledig, Kurt W.; and Teller, Daniel M., 3,644,436.

Lednicer, Daniel, to Upjohn Company, The. 2,3-Disubstituted 3H-indol-3-ols and process of production therefor. 3,634,455, 1-11-72, Cl. 260-326.13.

Lednicer, Daniel, to Upjohn Company, The. Diphenylmethylene spiranes. 3,636,166, 1-18-72, Cl. 260-619.

Lednicer, Daniel, to Upjohn Company, The. Substituted α-cycloalkylidene-α-phenyl-cresol ethers. 3,658,842, 4-25-72, Cl. 260-326.5.

Ledochowski, Andrzej; and Stefanska, Barbara. 1-Nitro-9-(dialkylamino alkylamino) acridine N-oxides. 3,694,448, 9-26-72, Cl. 260-279.00a.

Ledoux, Claude; and de Vries, Albert, to Produits Chimiques Pechiney-Saint-Gobain. Polyvinyl chloride fibers. 3,673,167, 6-27-72, Cl. 260-92.8.

Leduc, Jean: *See—*
Morini, Jean-Louis; Rigal, Pierre; and Leduc, Jean, 3,705,579.

Leduc, Joseph-Adrien, to Pullman Incorporated. Electrochemical cell. 3,632,497, 1-4-72, Cl. 204-263.

Leduc, Joseph-Adrien, to Pullman Incorporated. Process for forming a diaphragm for use in an electrolytic cell. 3,694,281, 9-26-72, Cl. 156-77.000.

Leduc, Joseph-Adrien M.; Lurie, Charles; Kronig, Walter; and Konrad, Peter, 1/2 to Pullman Incorporated and 1/2 to Farbenfabriken Bayer Aktiengesellschaft. Continuous electrochemical process for reaction of compounds containing aliphatic unsaturation. 3,70,719, 10-31-72, Cl. 204-131.000.

Leduc, Lucien. Reciprocating weeders. 3,633,678, 1-11-72, Cl. 172-44.

Leduc, Robert D., to Polaroid Corporation. Exposure counter for single-lens reflex camera. 3,653,313, 4-4-72, Cl. 95-42.

Ledwon, Erhard: *See—*
Jung, Anton Ladislaus; and Ledwon, Erhard, 3,656,469.
Jung, Anton Ladislaus; and Ledwon, Erhard, 3,669,090.

Lee, Aaron, to Chemair Corporation of America. Liquid atomizing apparatus. 3,658,254, 4-25-72, Cl. 239-337.

Lee, Aaron, to Chemair Corporation of America. Liquid spray apparatus. 3,705,689, 12-12-72, Cl. 239-337.000.

Lee, Admond K.; and Wong, Kwok-Ming, to Eastern Time Limited. Alarm clocks and watches. 3,678,679, 7-25-72, Cl. 58-21.150.

Lee, Alex Y.: *See—*
Gershberg, David N.; and Lee, Alex Y., 3,703,722.

Lee, Alfred, to Main Trucking & Rigging Co., Inc. Propeller stand. 3,695,566, 10-3-72, Cl. 248-119.00r.

Lee, Alwyne. Fluid control valve. 3,685,286, 8-22-72, Cl. 60-53.00r.

Lee, Arlene M.: *See—*
Lee, Robert L., 3,643,332.

Lee, Art, to General Electric Company. Two circuit solid state limit switch (1NO and 1NC). 3,656,005, 4-11-72, Cl. 307-247.

Lee, Art, to General Electric Company. Time and light controlled switching circuit. 3,673,413, 6-27-72, Cl. 250-206.000.

Lee, Benjamin Y. S.; and Gonzales, John, to United States of America, Navy. Process for neutralization of amorphous boron. 3,661,525, 5-9-72, Cl. 23-209.

Lee, Bernard S.; and Schora, Frank C., Jr. Treatment of coal to prevent agglomeration. 3,632,479, 1-4-72, Cl. 201-9.

Lee, Bernard Shing-Shu; and Schora, Frank C., Jr., to Institute of Gas Technology. Desulfurization of coal. 3,640,016, 2-8-72, Cl. 44-1.

Lee, Bert Leonard, to North American Rockwell Corporation. Electronic control system for adjustment of ink fountain in a printing press. 3,702,587, 11-14-72, Cl. 101-207.000.

Lee, Byron D. Foldable crib. 3,654,645, 4-11-72, Cl. 5-99.

Lee, Charles A.: *See—*
Breslin, Mary Anne; Cogar, George R.; Lee, Charles A.; Neddenriep, Donald O.; Romeo, Albert J.; Sevilla, Ernesto G.; and Sekse, Torkjell, 3,670,144.
Brown, Stirling Robert; and Lee, Charles A., 3,672,952.
Murphy, James A.; Lee, Charles A.; and Spravniks, Eduards, 3,707,281.

Lee, Charles A.; and Sorrells, Frank D., to International Paper Company, mesne. System for removing condensate from a rotary dryer. 3,640,000, 2-8-72, Cl. 34-125.

Lee, Charles A.; and Furbeck, Warren R., to Appleton Wire Works Corporation, mesne. Method of making fabric with a filler of greater area than the fabric. 3,669,781, 6-13-72, Cl. 156-84.

Lee, Charles A., to International Paper Company, mesne. Reinforced nonwoven fabric. 3,682,755, 8-8-72, Cl. 161-57.000.

Lee, Charles A., to Southeastern Products, Inc., mesne. Backing material for laminated products. 3,686,021, 8-22-72, Cl. 117-76.00t.

Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beaty, Jeremy, to International Paper Company, mesne. Forming apparatus. 3,641,627, 2-15-72, Cl. 19-156.3.

Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beaty, Jeremy, to Canadian International Paper Company, mesne. Fibrous web. 3,682,761, 8-8-72, Cl. 161-124.000.

Lee, Charles Allen; and Wagner, Joseph Robert, to Huyck Corporation. Press fabric for papermaking machine press section having selected large incompressible yarns. 3,705,079, 12-5-72, Cl. 162-358.000.

Lee, Charles Arthur. Magnetic receptacle for keys and the like. 3,680,338, 8-1-72, Cl. 70-456.000.

Lee, Charles D., Jr., to Parks-Cramer Company. Yarn piecing apparatus data communicating means and method. 3,680,297, 8-1-72, Cl. 57-34.00r.

Lee, Charles D., Jr., to Parks-Cramer Company. Textile yarn production control apparatus and method. 3,680,299, 8-1-72, Cl. 57-34.00r.

Lee, Charles K.; and Burzan, Vernon J., to KMS Industries, Inc. Card and holder for fingerprint identification system. 3,677,154, 7-18-72, Cl. 95-1.100.

Lee, Charles W., to Uniroyal, Inc. Stabilization of EPDM rubber with epoxide-sulfide mixture. 3,661,822, 5-9-72, Cl. 260-23.5.

Lee, Cheuk Man, to Abbott Laboratories. Certain pyridylalkyl derivatives of 2-amino-5-phenyl-2-oxazolin-4-ones. 3,681,367, 8-1-72, Cl. 260-295.0am.

Lee Chi-Hang; and Feldman, Jacob Richard, to General Foods Corporation. Method of preserving food. 3,695,899, 10-3-72, Cl. 99-150.000.

Lee, Chin K.; Hayes, Lawrence E.; and Long, Margaret E., to Reynolds, R. J., Tobacco Company. Process of preparing glucose isomerase. 3,645,848, 2-29-72, Cl. 195-31.

Lee Company, The: *See—*
Lee, Leighton, II, 3,651,607.

Lee, Daeyong, to General Electric Company. Process for producing articles with apertures or recesses of small cross-section and product produced thereby. 3,647,085, 3-7-72, Cl. 210-500.

Lee, Daeyong, to General Electric Company. Method of producing titanium alloys having an ultrafine grain size and product produced thereby. 3,686,041, 8-22-72, Cl. 148-11.50r.

Lee, David Belgrove, to U.S. Philips Corporation. Methods of etching semiconductor body surfaces. 3,649,395, 3-14-72, Cl. 156-16.

Lee, David S.: *See—*
Karas, Edwin L.; Lee, David S.; and Vanslette, Robert A., 3,681,998.

Lee, Denis: *See—*
Entwisle, John Hubert; Lee, Denis; and Scrutton, Anthony, 3,701,724.

Lee, Denis, to Imperial Chemical Industries Limited. Electrodes for electrochemical processes. 3,663,280, 5-16-72, Cl. 117-217.

Lee, Dennis D., to G & L Industries, Inc. Retractible tool holder. 3,657,812, 4-25-72, Cl. 30-162.

Lee, Don N.; and McMennamin, Roy B., to Computer Test Corporation. Sample and hold circuit with switching isolation. 3,700,998, 10-24-72, Cl. 320-1.000.

Lee, Donald H.: *See—*
Corrigan, Gordon D.; Lee, Donald H.; Olsen, Howard E.; and Petry, Robert J., 3,695,121.

Lee, Donald S.; and Settanni, Richard, to Leesona Corporation. Coil winding machine. 3,692,250, 9-19-72, Cl. 242-7.080.

Lee, Edward William; Tatchell, Keith Reid; Challis, Kenneth John; and Cockerton, Kenneth Archibald, to Ilford Limited. Polyester film with phenoxy resin coating. 3,701,680, 10-31-72, Cl. 117-138.80f.

Lee, Elsie Chang, to Societe Industrielle Bull-General Electric (Societe anonyme). Apparatus for the receiving, storing and restitution of recording tapes. 3,695,541, 10-3-72, Cl. 242-71.800.

Lee, Ernest O., Jr.: *See—*
Budrys, Ignas; and Lee, Ernest O., Jr., 3,676,603.
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Lee, Ernest O., Jr., to Stromberg-Carlson Corporation. Path finding system for multi-stage switching matrix. 3,660,600, 5-2-72, Cl. 179-18.

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Lee, James L., to Brush-A-Matic, Inc. Car washing machine. 3,641,606, 2-15-72, Cl. 15-21.
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Lee, Jimmy G., to Schlumberger Technology Corporation. Well logging methods and apparatus. 3,676,842, 7-11-72, Cl. 340-15.5bi.
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Lee, John H., to Minnesota Mining and Manufacturing Company. Security system for indicating fire, intrusion or the like. 3,699,569, 10-17-72, Cl. 340-409.000.
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Lee, Leighton, II, to Lee Company, The. Waste collector. 3,651,607, 3-28-72, Cl. 51-270.
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Lee, Norman C., to Carolina Enterprises, Inc. Candelabrum and light transmitting means therefor. 3,681,588, 8-1-72, Cl. 240-10.00b.
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Lee, Richard G., to Addressograph-Multigraph Corporation. Roll feeding and cutting apparatus for use in a photocopy machine. 3,672,770, 6-27-72, Cl. 355-97.000.
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Lee, Richard J. Full length cartridge case re-sizing. 3,705,515, 12-12-72, Cl. 72-367.000.
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Lee, Tzou-Chang, to Honeywell Inc. Acoustic resonance damping apparatus. 3,663,091, 5-16-72, Cl. 350-160.
Lee, Tzuo-Chang; and Zook, James D., to Honeywell Inc. Parallel array light beam deflector with variable phase plate. 3,650,602, 3-21-72, Cl. 350-160.
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Lee, Wallace G. T. Combination cooking-stirring vessel. 3,635,147, 1-18-72, Cl. 99-348.
Lee, Walter Wright, to RCA Corporation. Correlation peak detector in optical spatial filtering system. 3,666,359, 5-30-72, Cl. 356-71.
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Leftault, Charles J., Jr., to Aluminum Company of America. Closing of containers. 3,631,650, 1-4-72, Cl. 53-42.
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Legendre, Pierre, to Societe Nationale des Petroles d'Aquitaine. Process for the production of alkenyl thioesters. 3,637,789, 1-25-72, Cl. 260-455.
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Leger, Andre, to Automobiles Peugeot and Regie Nationale des Usines Renault. Starting and stopping device for a diesel engine. 3,668,411, 6-6-72, Cl. 290-38.000.
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Lehman, Charles L. Lister-chisel combination. 3,667,550, 6-6-72, Cl. 172-700.000.
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Lehman, Harry W., to Stratford Industries, Inc. Adjustable door or window frame. 3,654,734, 4-11-72, Cl. 49-505.000.
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Lehman, Kenneth W. Game apparatus including target, projectile, and planing chart. 3,685,826, 8-22-72, Cl. 273-95.00r.
Lehman, Lewis M.; and Koeppler, John A., to Square D Company. Switch adapter structure for a dust-ignition-proof enclosure. 3,681,553, 8-1-72, Cl. 200-168.00g.
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Lehmann, Gunter; Neunhoeffer, Otto; Roselius, Wilhelm; and Vitzthum, Otto, to Hag Aktiengesellschaft. Process for the protection of auto-oxidizable materials. 3,663,581, 5-16-72, Cl. 260-398.5.
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Lehmann, Herbert G. Quick replacement, slack take-up electric cord with improved switch, detachable electrical connector means. 3,668,344, 6-6-72, Cl. 260-52.00r.
Lehmann, Herbert G. Quick replacement, slack take-up electric cord for lamps, radios, clocks and the like. 3,691,510, 9-12-72, Cl. 339-28.000.
Lehmann, Herbert G. Safety package for electrical line-cord accessory and method of installing accessory. 3,707,040, 12-26-72, Cl. 29-628.000.
Lehmann, Karl Friedrich; and Weygant, Robert Miller, to American Can Company. Sheet feed mechanism. 3,680,679, 8-1-72, Cl. 198-104.000.
Lehmann, Kenneth G. Spring-biased metering and non-metering tilt valve without coil spring. 3,642,180, 2-15-72, Cl. 222-402.23.
Lehmann, Leonard T., to Hercules Incorporated. Process of preparing air-pervious spot bonded nonwoven fabrics. 3,697,347, 10-10-72, Cl. 156-81.000.
Lehmann, Rolf-Konrad, to Danfoss A/S. Solenoid valve with adjustable stroke. 3,633,869, 1-11-72, Cl. 251-129.
Lehmann, Walter G., to Polaroid Corporation. Photographing apparatus and process employing a filter-applicator. 3,685,412, 8-22-72, Cl. 95-13.000.
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Lehmann, Willi; and Ryan, Frederick M., to Westinghouse Electric Corporation. Cathodoluminescent calcium sulfide compositions with improved fast decay characteristic. 3,673,102, 6-27-72, Cl. 252-301.40s.
Lehmann, William Lester, to RCA Corporation. Capacitors of constant capacitance. 3,675,095, 7-4-72, Cl. 317-261.000.
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Lehnen, Robert J.; and Sugalski, Raymond K., to General Electric Company. Rechargeable cell holder. 3,684,583, 8-15-72, Cl. 136-173.000.
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Lehovec, Kurt. Electro-optical multiple image arrangements. 3,649,836, 3-14-72, Cl. 250-209.
Lehovec, Kurt. Diffractive image-forming means integrated into semiconducting devices. 3,649,837, 3-14-72, Cl. 250-211.
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Lehovec, Kurt. Pulse coded sound reproduction using optical readout of the microphone membrane. 3,705,308, 12-5-72, Cl. 250-217.0ss.
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Leibach, Heinrich; Schweikl, Ludwig; and Lottes, Paul, to Motoren- und Turbinen-Union. Thrust nozzle whose gas discharge cross-section is adapted to be adjusted by means of adjusting flaps. 3,685,738, 8-22-72, Cl. 239-265.390.
Leibbrand, Bertus; Mertens, Johan J.; Ploeger, Harm A.; Sluijters, Robert; and Van Assendelft, Leendert, to Akzona Incorporated. Process and apparatus for false twisting synthetic yarns. 3,706,192, 12-19-72, Cl. 57-34.0hd.
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Leiber, Heinz; and Krumling, Fritz, to Teldix G.m.b.H. Fluid return circuit for anti-locking brake systems. 3,645,584, 2-29-72, Cl. 303-21.
Leibfried, Raymond T., to Hercules Incorporated. Synthesis of partial esters of certain poly(neopentyl polyols) and aliphatic monocarboxylic acids. 3,670,013, 6-13-72, Cl. 260-488.00j.
Leibfried, Wolfgang; Schmid, Guenther; Ortlieb, Alfred; Hartmann, Horst J.; and Tittes, Eberhard, to Bosch, Robert, G.m.b.H. Arrangement for soldering a terminal to a semiconductor. 3,648,915, 3-14-72, Cl. 228-37.
Leibfritz, Kurt W.; and Malinowski, Lester W., to Parker-Hannifin Corporation. Solenoid operated valve assembly. 3,633,624, 1-11-72, Cl. 137-625.64.
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Leibinger, Berthold, to Trumpf & Co. Method and device for exchanging tools on machines having reciprocating movement. 3,678,562, 7-25-72, Cl. 29-400.000.
Leibinsohn, Saul. Stop cock. 3,678,960, 7-25-72, Cl. 137-625.470.
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Leibowitz, Martin N. Fabric display kit. 3,631,975, 1-4-72, Cl. 206-82.
Leibowitz, William, to Dollac Division, Jacoby-Bender, Inc. Rolling doll dye mounted on an askew axis. 3,664,059, 5-23-72, Cl. 46-167.
Leibson, Irving, to Dart Industries Inc. Crystalline block copolymers of aliphatic alpha-olefins and process of preparing same. 3,702,352, 11-7-72, Cl. 260-878.00b.
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Leich, Robert A., to Camdex, Inc. Ammunition reloader. 3,678,799, 7-25-72, Cl. 86-26.000.
Leichtle, Otto, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acrylic acid from residues obtained in working up acrylic acid. 3,639,466, 2-1-72, Cl. 260-526.
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Leiga, Algird G., to Xerox Corporation. Uniform electrostatic charging of a photoconductive insulating surface. 3,648,133, 3-7-72, Cl. 317-262.
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Leir, Charles M., to Pfizer Inc. Methyl 3,3-dichloro-1-lower alkoxy-2-oxo cyclopentane carboxylate. 3,652,643, 3-28-72, Cl. 260-468.
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Lejeune, Daniel, to Compagnie Generale des Etablissements Michelin raison sociale Michelin & Cie. Cast steel wheels for heavy-duty vehicles. 3,674,315, 7-4-72, Cl. 310-65.000.
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Lejeune, Pierre, to Neyrpic-BMB. Process and apparatus for suspending particles in a liquid. 3,664,096, 5-23-72, Cl. 55-466.000.
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Lemelson, Jerome H., to Triax Company, The. Load handling mechanism and automatic storage system. 3,674,159, 7-4-72, Cl. 214-16.40a.
Lemelson, Jerome H. Irradiation method for production of fiber-reinforced polymeric composites. 3,676,249, 7-11-72, Cl. 156-244.000.
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Lemelson, Jerome H. Process for the manufacture of optical display devices. 3,684,614, 8-15-72, Cl. 156-292.000.
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Lemelson, Jerome H. Tape cartridge, drive and transducing apparatus for the tape thereof. 3,693,983, 9-26-72, Cl. 274-4.00c.
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Lemgo-Lippe, Kurt Hesse, to Staff & Schwarz G.m.b.H. Current distributor rail. 3,704,437, 11-28-72, Cl. 339-21.00r.
Lemieux, Claude: *See—*
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Lemieux, George E., to Ford Motor Company. Automotive transmission mechanism having four forward driving speed ratios. 3,678,784, 7-25-72, Cl. 74-759.000.
Lemieux, George E.; and Smalinskas, Stepas, to Ford Motor Company. Throttle valve actuator for an automatic vehicle transmission having engine back pressure compensation. 3,688,606, 9-5-72, Cl. 74-863.000.
Lemieux, George E., to Ford Motor Company. Compound fluid pressure actuator for friction torque coupling. 3,693,480, 9-26-72, Cl. 74-789.000.
Lemieux, Raymond Urgel; and Raap, Rintje, to R & L Molecular Research Ltd. Certain isothiazolylacetylenemercaptides. 3,654,294, 4-4-72, Cl. 260-302.
Lemieux, Raymond Urgel; and Raap, Rintje, to R & L Molecular Research Ltd. 7-[(O-Aminomethylphenylthio)-acetamido] cephalosporanic acid. 3,657,232, 4-18-72, Cl. 260-243.
Lemieux, Raymond Urgel; and Raap, Rintje, to R&L Molecular Research Ltd. 7-(p-Aminomethylphenylthio)-acetamido-3-(pyridiniummethyl)ceph-3-em-4-carboxylate. 3,663,540, 5-16-72, Cl. 260-243.00c.
Lemieux, Roger Joseph, to Northern Electric Company Limited. Filled cable core with foraminous core wrap. 3,681,510, 8-1-72, Cl. 174-23.00r.
Lemieux, Thomas H., to United States of America, Navy. Flexible hose wire payout system. 3,703,874, 11-28-72, Cl. 114-21.00r.
Leming, John C., to Averton Gear and Tool Corporation. Long span screw and nut drives. 3,670,583, 6-20-72, Cl. 74-89.15.
Lemke, Arthur A., to FMC Corporation. Method and apparatus for flushing sewers. 3,661,261, 5-9-72, Cl. 210-83.000.
Lemke, Donald L.; and Ostrander, Ronald D., to Murray Machinery, Inc. Apparatus for handling pneumatic web roll winding shafts. 3,675,866, 7-11-72, Cl. 242-55.000.
Lemke, James U., to Bell & Howell Company. Magnetic printing utilizing thermal gradients. 3,693,183, 9-19-72, Cl. 346-74.0mt.
Lemke, Timothy Allen: *See—*
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Lemler, Seymour A. Scoop for animal waste. 3,703,158, 11-21-72, Cl. 119-1.000.
Lemlin, John S.: *See—*
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Lemmens, Joseph. Variable speed transmission. 3,641,843, 2-15-72, Cl. 74-751.
Lemmerman, Richard D. Jet engine exhaust augmentation unit. 3,684,054, 8-15-72, Cl. 181-33.0hc.
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Lemoine, Industries: *See—*
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Lemoine, Jacques: *See—*
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Lemoine, Jacques; and Lugand, Paul, to Societe Generale de Constructions Electroniques et Mecaniques (Alsthom). Method and means for preventing low temperature corrosion, by sulphur containing flue gases, of the terminal parts of air heating means. 3,693,53, 9-26-72, Cl. 60-67.000.

Lemoine, Maurice G., to Ampex Corporation. Dual loop equalization for a frequency modulated signal system. 3,643,013, 2-15-72, Cl. 178-6.6.

Lemon, George E. Quick release arm straightener device. 3,637,219, 1-25-72, Cl. 273-189.

Lemon, George E. Tethered ball with cord lengthening means. 3,655,190, 4-11-72, Cl. 273-95.

Lemon, George F., Jr.: *See—*
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Lemons, David Forrest; Marquart, Gordon Le Roy; and Herscovici, Saul, to Deere & Company. Articulated tractor. 3,701,393, 10-31-72, Cl. 180-51.000.

Lemouzy, Joseph Antoine. Electronic apparatus for converting impedances and electrical measurements. 3,657,662, 4-18-72, Cl. 330-17.

Lemp, John, Jr.; and Meadors, Howard Clarence, Jr., to Bell Telephone Laboratories, Incorporated. Digital equalizer in which tap adjusting signals are derived by modifying the signal code format. 3,633,014, 1-4-72, Cl. 235-152.

Lemper, Anthony L.; and Okuzumi, Yuzi, to Goodyear Tire & Rubber Company, The. Dyeable polyester. 3,661,856, 5-9-72, Cl. 260-75.00s.

Lemper, Herbert, to Mesta Machine Company. Vertical mill. 3,670,587, 6-20-72, Cl. 72-239.000.

Lemper, Herbert; and Snee, William J., Jr., to Mesta Machine Company. Force-multiplying mechanisms. 3,680,400, 8-1-72, Cl. 74-89.150.

Lempert, Joseph; Lowry, Jerald; and Bonner, Frederick M., to Westinghouse Electric Corporation. Work treating with electron beam. 3,634,645, 1-11-72, Cl. 219-121.

Lems, Peter, to Signode Corporation. Load bagging apparatus. 3,675,388, 7-11-72, Cl. 53-187.000.

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Lender, Adam; and Dotter, Berton E., Jr., to GTE Automatic Electric Laboratories, Incorporated. Data error detector for determining the error rate prior to equalization. 3,665,394, 5-23-72, Cl. 340-146.1ax.

Lender, Chester A., to Slick Electro Inc. Centering mechanism for machine tools. 3,661,042, 5-9-72, Cl. 82-3.000.

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Lenders, Wilhelmus Leonard Louis: *See—*
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Lendvay, Andrew T. Coffee extraction. 3,705,810, 12-12-72, Cl. 99-71.000.

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Lenehan, Bernard E., to Westinghouse Electric Corporation. Apparatus for transferring intelligence between two voltage levels. 3,654,483, 4-4-72, Cl. 307-109.

Lenfant, Henri. Automatic gas-trap. 3,677,279, 7-18-72, Cl. 137-197.000.

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Leng, Douglas E.: *See—*
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Leng, John Lindley; and Vellins, Cyril Eric, to Imperial Chemical Industries Limited. Anthraquinone dyestuffs. 3,632,612, 1-4-72, Cl. 260-380.

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Lengnick, Guenther Fritz: *See—*
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Lengnick, Guenther Fritz, to Stauffer-Wacker Silicone Corporation, mesne. Organophosphato-stannanes. 3,655,705, 4-11-72, Cl. 260-429.7.

Lengnick, Gunther F.; and Pande, Kailash Chandra, to Stauffer-Wacker Silicone Corporation, mesne. Method for curing an organopolysiloxane using a organotin aminocarbamate. 3,697,477, 10-10-72, Cl. 260-46.5.

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Lenihan, Jeremiah P., to Mobil Oil Corporation. Process of forming time-variant filters for filtering seismic data. 3,701,091, 10-24-72, Cl. 340-15.5af.

Leningradskoe Proektno-Experimetalnoe Otdelenie Vsesojuz-Nogo Gosudarstvennogo Nauchno Issledovatelskogo i Proekt-Nogo Instituta Vniiproektelektromontash, Dnepropetrovskaya ulitsa: *See—*
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Leningradsky Elektrotekhnichesky Institut svyazi imeni Professora M.A.: *See—*
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Leningradsky Institut Inzhenerov Zheleznoforpzhnogo Transporta Imeni Akademika N. V. Obraztsova Kalininsky Vagonostroitelny Zavod: *See—*
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Lenk, Erich; and Krawszik, Theodor, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Spinning apparatus composed of modular spinning units on common heating beam. 3,655,314, 4-11-72, Cl. 425-131.

Lenk, Erich, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Traversing device for winding machines. 3,664,596, 5-23-72, Cl. 242-43.

Lenk, Erich, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Adjustable spinning shaft for melt-spun yarns. 3,684,416, 8-15-72, Cl. 425-72.000.

Lenk, James W., to Berkley Machine Company. Running feedback adjustment of envelope making machines. 3,683,757, 8-15-72, Cl. 93-61.0ac.

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Lenkeit, Carl Heinz; and Conklin, Cornelius Stephen, Jr., to United Aircraft Corporation. Jet engine force frame. 3,675,418, 7-11-72, Cl. 60-39.310.

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Lennartz, Gustav: *See—*
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Lennea, Robert W.; and Heavenor, Robert H. Blade angling device. 3,656,559, 4-18-72, Cl. 172-805.

Lennert, Andrew E.; Crosswy, Frank L.; and Kalb, Henry T., to United States of America, Air Force. Reference time scale application to high speed film at high pulse repetition rates. 3,671,112, 6-20-72, Cl. 352-84.000.

Lennert, David A.: *See—*
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Lennie, Kenneth B., 230494 Merchandising Limited. Cartridge loading means and method for tape recorder. 3,635,423, 1-18-72, Cl. 242-198.
Lenning, Ronald L., to Cincinnati Milacron Inc. Adaptive control for a grinding machine. 3,699,720, 10-24-72, Cl. 51-59.0ss.
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Lennox, Thomas M., to Scanfax Systems Corporation. Tape drive shut-off. 3,695,550, 10-3-72, Cl. 242-191.000.
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Lense, Robert F.; and Zimmer, Richard C., to Riegel Paper Corporation. Continuous motion packaging machine for cartons with sealing tapes. 3,691,724, 9-19-72, Cl. 53-284.000.
Lensner, Herbert W.; and Ray, Roger E., to Westinghouse Electric Corporation. Frequency shifted modulated carrier protective relaying system with amplitude modulated voice communication. 3,707,651, 12-26-72, Cl. 317-28.000.
Lenss, Andris; and Kirton, Lionel A., to Signetics Corporation. Boat pulling apparatus and diffusion furnace and method. 3,669,431, 6-13-72, Cl. 263-28.000.
Lent, Charles V.: *See—*
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Lent, William E.; and Gates, Louis E., Jr., to United States of America, Navy. Silica-clay tooling material for welding and brazing operations. 3,632,961, 1-4-72, Cl. 219-160.
Lent, Worthington C., to Lear Siegler, Inc. Subscriber loop extension unit. 3,689,700, 9-5-72, Cl. 179-16.00f.
Lentini, Carlo A., to X-trad Corporation. Mounting means for gas burner. 3,635,650, 1-18-72, Cl. 431-278.
Lentz, Albert P.; and Pool, Danny J. Fluid deflecting cap remover. 3,638,515, 2-1-72, Cl. 81-3.1.
Lentz, Allen R., to Eastman Kodak Company. Film identification apparatus. 3,649,832, 3-14-72, Cl. 250-67.
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Lenz, Henry George, to General Electric Company. Castable rotor having radially venting laminations. 3,684,906, 8-15-72, Cl. 310-61.000.
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Lenz, Siegfried, to Daimler-Benz Aktiengesellschaft. Control installation for combustion engines. 3,687,120, 8-29-72, Cl. 123-117.00a.
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Leonard, John E.; and Watanabe, Hideo, to International Biophysics Corporation. Metal-metal salt electrodes and process. 3,681,136, 8-1-72, Cl. 117-230.000.
Leonard, John M.: *See—*
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Leonard, Lloyd H. Shoe cleaner and polisher. 3,659,304, 5-2-72, Cl. 15-36.
Leonard, Lloyd H. Vehicle transmission control. 3,662,624, 5-16-72, Cl. 74-865.
Leonard, Loren W. Method for automatically monitoring and servicing the drilling fluid condition in a well bore. 3,646,808, 3-7-72, Cl. 73-155.
Leonard, Louis H., Jr., to Carrier Corporation. Absorption refrigeration system. 3,701,265, 10-31-72, Cl. 62-475.000.
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Leonard, Murray, to Gulton Industries, Inc. Electronic compensaton for optical system focal length variation. 3,686,437, 8-22-72, Cl. 178-7.600.
Leonard, Percy D., Jr.: *See—*
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Leonard, Richard J.: *See—*
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Leonard, Robert G.; and Surprise, Chester P., to Johnson Service Company. Gas quality indicator and method for determining gas quality. 3,661,009, 5-9-72, Cl. 73-23.
Leonard, Ronald James; and Cohen, Fred Michael, to Baxter Laboratories, Inc. Heat exchange device with convoluted heat transfer wall. 3,640,340, 2-8-72, Cl. 165-166.
Leonard, Theodore E.; and Lloyd, James R., to Esso Production Research Company. Protection of underwater equipment by immersion. 3,693,362, 9-26-72, Cl. 61-46.500.
Leonard, Verna M. Means for simplified rewriting of music. 3,700,785, 10-24-72, Cl. 84-470.000.
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Leonardo, Ignazio; and Pfeiffer, Harold C., to General Cable Corporation. Powder actuated tool. 3,652,003, 3-28-72, Cl. 227-10.
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Leone, Girolamo; and Vignola, Giulio. Frame structure for electrical chassis with removable wiring channels. 3,657,608, 4-18-72, Cl. 317-118.
Leone, Nick A. Magnetic rotor assembly. 3,675,506, 7-11-72, Cl. 74-572.000.
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Leonhard, Karl Wilhelm: *See—*
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Leontiev, Alexandr Ivanovich: *See—*
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Leopold, Henri; and Pomathios, Jacques, to Etablissements Tiflex. Complex film for obtaining silk screen stencils. 3,676,128, 7-11-72, Cl. 96-36.400.
Leopold, Lutz: *See—*
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Leopold, Wilbur R., Jr.; Smith, John J.; Hackman, Frank C.; Luckenbill, Lawrence F.; and Daghe, Joseph L., to Mueller Co. Gate valve structure. 3,633,873, 1-11-72, Cl. 251-326.
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Leopoldi, Norbert. Carton cutter or the like. 3,641,667, 2-15-72, Cl. 30-2.
Leopoldi, Norbert; and Rolin, Kenneth C., Sr. Dial-actuated safety cap. 3,684,117, 8-15-72, Cl. 215-9.000.
Leopoldi, Norbert; and Rolin, Kenneth C., Sr. Key holder. 3,704,605, 12-5-72, Cl. 70-456.00r.
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Lepagnol, Jean A. H.: *See—*
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Lepak, Carley J., to Leeds, Kenneth. Pump arrangement. 3,644,068, 2-22-72, Cl. 417-477.
LePape, Auguste Raymond: *See—*
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Lepold, Manfred F.; Heinze, Gerhard; Kaule, Gustav; and Podschus, Ernst, to Bayer Aktiengesellschaft. Adsorption process for the complete and nondissipative separation of a gas mixture into ad-

sorbable and non-adsorbable, in particular radioactive component. 3,703,797, 11a28-72, Cl. 55-62.000.
Lepomaa, Lauri A.; and Roisko, Timo O., to Rikkihoppo Oy. Method of preparing calcium fluoride and soluble phosphate from fluorine containing phosphate rock. 3,684,435, 8-15-72, Cl. 23-88.000.
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Fritzinger, Larry B.; and Lepselter, Martin P., 3,647,585.
Lepselter, Martin P.; and MacRae, Alfred U., to Bell Telephone Laboratories, Incorporated. Fabrication of insulated gate field-effect transistors involving ion implantation. 3,652,908, 3-28-72, Cl. 317-235.
Lepselter, Martin P., to Bell Telephone Laboratories, Incorporated. Passivated semiconductor devices. 3,663,279, 5-16-72, Cl. 117-212.
Lepselter, Martin Paul, to Bell Telephone Laboratories, Incorporated. Modifying barrier layer devices. 3,669,730, 6-13-72, Cl. 117-200.000.
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Ler-Son Company, Incorporated: *See—*
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Lerach, Josef; and Denk, Victor, to Rheinmetall GmbH., Firma. Method of and device for aiming barrels of cannons installed in terrain from a remote aiming station. 3,662,390, 5-9-72, Cl. 343-102.
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Lerman, Frank; and Bartsch, Raymond C., to National Distillers and Chemical Corporation. Process for the preparation of pigmented polymer powders of controlled particle shape and size and size distribution and product. 3,674,736, 7-4-72, Cl. 260-41.00r.
Lerman, Harold: *See—*
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Lerman, Russell E., to United States of America, Army. Pyrotechnic coiled delay cord assembly for a hand grenade fuze. 3,705,552, 12-12-72, Cl. 102-64.000.
Lermann, Peter, to Agfa-Gevaert Aktiengesellschaft. Camera with exposure control using a single magnet. 3,705,536, 12-12-72, Cl. 95-10.0ct.
Lermusiaux, Lucien, to Societe de Construction et d'Exploitation de Materiels et Moteurs S.C.E.M.M. Cooling circuit for rotary piston internal combustion engines. 3,644,070, 2-22-72, Cl. 418-61.
Lerner, Charlotte F., to Small World Importing Corporation. Christmas tree ornamentation package. 3,696,918, 10-10-72, Cl. 206-45.310.
Lerner, George; and Ellman, Julius, to Hasbro Industries, Inc. Magnetically coupled toy assembly. 3,660,926, 5-9-72, Cl. 46-1.
Lerner, Harry, to Itek Corporation. Physical development of a thin reversibly activatable photoconductor element having a resinous barrier layer. 3,700,449, 10-24-72, Cl. 96-48.0pd.
Lerner, Hershey, to Automated Packaging Systems, Inc. Method and apparatus for loading and forming envelopes and blank envelope structure used therewith. 3,641,733, 2-15-72, Cl. 53-29.
Lerner, Irving: *See—*
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Lerner, Irwin; and McGrath, Robert Paul, to Hoffmann-La Roche Inc. Diazepam and propantheline composition. 3,700,774, 10-24-72, Cl. 424-244.000.
Lerner, Irwin S., to Robbins, A. H., Company, Incorporated. Intrauterine contraceptive device. 3,633,574, 1-11-72, Cl. 128-130.
Lerner, Marc; and Erlich, Giora. Particulate filter media having a gradient of removal ratings. 3,704,786, 12-5-72, Cl. 210-290.000.
Lerner, Marc. Filter tank and mounting adapter for multiport valves. 3,707,233, 12-26-72, Cl. 210-278.000.
Lerner, Martin L., to Zenith Radio Corporation. Process of etching a shadow mask. 3,669,771, 6-13-72, Cl. 156-8.
Lerner, Martin L., to Zenith Radio Corporation. Control system for mask etching apparatus. 3,702,277, 11-7-72, Cl. 156-345.000.
Lerner, Martin L., to Zenith Radio Corporation. Shadow mask having double-sized apertures. 3,707,640, 12-26-72, Cl. 313-85.00s.
Lerner, Ruvim Zinovievich: *See—*
Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Jury Germanovich; Syskov, Konstantin Ivanovich; Filonenko, Jury Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovievich; Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.
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Lerouax, Robert K., to Hydril Company. Swinging blowout preventer head with fluid connector. 3,658,287, 4-25-72, Cl. 251-1.
Lerouax, Robert K., to Hydril Company. Blowout preventer with resistance means between the body and the piston. 3,670,761, 6-20-72, Cl. 137-315.000.
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De Jean, Jacques Henri; Leger, Marc Jean Pierre; and Lerouge, Claude Paul Henri, 3,651,467.
Leroy, Jean L., to Metallurgie Hoboken-Overpelt. Method for the continuous hot shaping of copper bars. 3,702,629, 11-14-72, Cl. 164-76.000.
Leroy, Jean Marie Louis; and Brouard, Claude Marie Henri Emile, to Ugine Kuhlmann. Water-insoluble pyrazolone azo dyestuffs. 3,663,530, 5-16-72, Cl. 260-163.
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Lerstrup, Karl, to Aktieselskabet Lour. Knudsen, Nordisk Elektricitets Selskab Selskab. Electric fuses. 3,689,995, 9-12-72, Cl. 29-623.000.
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Les Condensateurs Sic-Safco: *See—*
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Lesar, Byron L. Package for light bulbs. 3,664,571, 5-23-72, Cl. 229-39.
Lesare, Paul, to U.S. Philips Corporation. Television transmitter with the synchronization signal applied to the oscillation and the luminance signal applied to a modulator. 3,697,684, 10-10-72, Cl. 178-7.200.
Lesavoy, Lawrence, to Glen Creations, Inc. Yarn package support. 3,690,585, 9-12-72, Cl. 242-129.800.
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Lese, Henri K.; and Smyth, Rex W., to Gulf Research & Development Company. Process for producing a keto polycarboxylic anhydride and recovery thereof by plural stage distillation. 3,657,280, 4-18-72, Cl. 260-346.4.
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Lesh, Ed. Sewage disposal systems. 3,701,428, 10-31-72, Cl. 210-170.000.
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Lesher, George Y., to Sterling Drug Inc. N,N'-alkylene bis (pyridinecarboxamides). 3,697,531, 10-10-72, Cl. 260-295.0am.
Lesher, Howard D.: *See—*
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Leslie, Robert J. Injector valve for granular materials. 3,701,479, 10-31-72, Cl. 239-407.000.
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Lesser, Herbert F.; Schmeisser, Manfred H.; and Kamp, Artur F., to VEB Vhrinkombinat Rubhla. Chronograph mechanism. 3,686,881, 8-29-72, Cl. 58-76.000.
Lessman, Gerhard, to Bell & Howell Company. Thermoplastic recording. 3,653,888, 4-4-72, Cl. 96-1.1.
Lessmann, Gerald G., to Westinghouse Electric Corporation. Bimetallic coupling joint for tubes of dissimilar materials. 3,632,143, 1-4-72, Cl. 285-187.
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Levine, David J.; and Sherrill, Bruce E., Jr., to General Electric Company. Masking method in metallic diffusion coating. 3,647,497, 3-7-72, Cl. 117-5.5.
Levine, David J.; and Levinstein, Moses A., to General Electric Company. Metallic surface treatment method. 3,667,985, 6-6-72, Cl. 117-22.000.
Levine, Donald, to United States of America, Navy. Fire retardant intumescent paint. 3,654,190, 4-4-72, Cl. 260-2.5.
Levine, Elliot. Envelope with impermanent closure. 3,702,171, 11-7-72, Cl. 229-79.000.
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Levine, Leonard, to Dow Chemical Company, The. 4,4'-(lower-alkylenedithio or disulfonyl)-bis-tetrahalo pyridines and derivatives thereof. 3,641,033, 2-8-72, Cl. 260-294.8.
Levine, Leonard, to Dow Chemical Company, The. Preparation of oxalic acid. 3,652,669, 3-28-72, Cl. 260-538.
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Levine, Morris; Brane, Ralph M.; and Hight, Roland W., to PPG Industries, Inc. Stabilization of metal chromate pigments in water-based resins. 3,657,169, 4-18-72, Cl. 260-18.
Levine, Morris; Brane, Ralph M.; and Hight, Roland W., to PPG Industries, Inc. Electrodeposition of water-based resins with stabilized metal chromate pigments. 3,684,676, 8-15-72, Cl. 204-181.000.
Levine, Nathan B.; Green, Joseph; and Sheehan, William R., to Thiokol Chemical Corporation. Fabrication of carboxy nitroso rubber expulsion bladders. 3,649,609, 3-14-72, Cl. 260-92.1.
Levine, Peter Alan; and Shing-Gong, Liu, to RCA Corporation. Compact, high power, high efficiency silicon avalanche diode L-band oscillator. 3,638,141, 1-25-72, Cl. 331-101.
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Levine, Ralph, to Cities Service Company. Process for preparing a pure hydrogenated cycloolefin. 3,703,558, 11-21-72, Cl. 260-666.00p.
Levine, Richard: *See—*
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Levine, Richard C., to Diecomp Inc. Frequency division multiplex system using the spectrum of a periodic synchronizing pulse for phase correction. 3,655,917, 4-11-72, Cl. 179-15.
Levine, Samson P.; Kugler, Ralph W.; and Cander, Anthony J., to Westinghouse Electric Corporation. Apparatus for making a laminated fibrous strip. 3,685,376, 8-22-72, Cl. 83-87.000.
Levine, Seymour D.; and Diassi, Patrick A., to Squibb, E. R., & Sons, Inc. 2-Position ketals of A-norandrostanes and derivatives thereof. 3,647,820, 3-7-72, Cl. 260-340.9.
Levine, Seymour D., to Squibb, E. R., & Sons, Inc. 3,4-Bis nor-5-aza-B-homo-D-homoandrostanes. 3,652,544, 3-28-72, Cl. 260-239.
Levine, Seymour D., to Squibb, E. R., & Sons, Inc. 5-Cyano-A-norpregnane-2-one derivatives. 3,660,457, 5-2-72, Cl. 260-464.
Levine, Seymour D., to Squibb, E. R., & Sons, Inc. Acenaphthyloxazole derivatives. 3,676,452, 7-11-72, Cl. 260-307.00d.
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Levine, Seymour D., to Squibb, E. R., & Sons, Inc. Acid and ester intermediates for preparing 3,4-bisnor-5-aza-B-hamopregnane-2,20-diones. 3,696,109, 10-3-72, Cl. 260-287.00r.
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Levington, Henry John; and Clark, Charles Keith, to Associated Engineering Limited. Heat exchangers. 3,673,846, 7-4-72, Cl. 72-326.000.
Levinn, Robert N., to American Thermostat Corporation. Liquid level sensing system. 3,703,693, 11-21-72, Cl. 337-1.000.
Levinos, Steven. Photopolymerization utilizing diazosulfonates and photoreducible dyes. 3,637,375, 1-25-72, Cl. 96-28.
Levinos, Steven, to Keuffel & Esser Company. Photopolymerization utilizing dye-sensitized sulfones. 3,650,927, 3-21-72, Cl. 204-159.24.
Levinson, Gerald S., to Shell Oil Company. Hydroconversion catalyst preparation. 3,673,112, 6-27-72, Cl. 252-441.000.
Levinson, Melvin L. Heating and loading implement for microwave energy. 3,701,872, 10-31-72, Cl. 219-10.550.
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Levy, Alan A.; Rodger, Mitchell N.; and Breach, Geoffrey D., to Richardson-Merrell Limited. Sterilizing composition comprising potassium monopersulphate and sodium chloride coated with an edible oil and magnesium stearate. 3,671,629, 6-20-72, Cl. 424-153.00.

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Levy, Boris, to Polaroid Corporation. Silver halide emulsion containing lead oxide as optical sensitizer. 3,656,962, 4-18-72, Cl. 96-120.

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Levy, Edward M., to Chemtrust Industries Corporation. Mobile cleaning apparatus. 3,680,786, 8-1-72, Cl. 239-146.000.

Levy, Eliezer, to Filigree Arts Inc. Method of manufacturing ornamental element. 3,667,098, 6-6-72, Cl. 29-160.6.

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Levy, Gabor B.: *See—*
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Levy, Harold. Automobile hood lock device. 3,668,908, 6-13-72, Cl. 70-240.000.

Levy, Henry M.: *See—*
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Levy, Hilton B., to United States of America, Health, Education and Welfare. Inhibition of transplanted tumor growth by polyinosinic-polycytidylic acid in mice. 3,692,899, 9-19-72, Cl. 424-180.000.

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Levy, Jerome F.; and Kucsan, John, to Rohm & Haas Company. Splitting blocked isocyanates with a carboxylic acid salt of calcium, strontium, magnesium, or barium. 3,705,119, 12-5-72, Cl. 260-18.0tn.

Levy, Joseph; and Walker, William, to Universal Oil Products Company. Esterification process. 3,660,411, 5-2-72, Cl. 260-293.81.

Levy, Joseph; and Psihas, James, to Universal Oil Products Company. Preparation of tertiary aminoalkyl derivatives of substituted acetohydroxamic acid esters. 3,678,048, 7-18-72, Cl. 260-247.20b.

Levy, Joseph Peppo, to Sperry Rand Limited. Catalyst for electroless plating. 3,681,257, 8-1-72, Cl. 252-430.000.

Levy, Kenneth: *See—*
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Levy, Kenneth, to Singer Company, The. Film position and break detector. 3,696,981, 10-10-72, Cl. 226-11.000.

Levy, Leon B., to Celanese Corporation. Preparation of oxidation catalyst. 3,637,526, 1-25-72, Cl. 252-439.

Levy, Leon B., to Celanese Corporation. Process for the conversion of olefins to unsaturated aldehydes and acids. 3,703,551, 11-21-72, Cl. 260-533.000.

Levy, Leon M.: *See—*
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Levy, Leon M., to Condecor, Inc. Frame and easel back assembly. 3,686,783, 8-29-72, Cl. 40-152.100.

Levy, Marcel Louis. Cutting machines. 3,641,856, 2-15-72, Cl. 83-295.

Levy, Marilyn, to United States of America, Army. Color printing method. 3,672,766, 6-27-72, Cl. 355-32.000.

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Levy, Marvin J. Fire and smoke monitoring and alarm system. 3,643,244, 2-15-72, Cl. 340-227.

Levy, Marvin J. Monitoring system for door stations. 3,662,372, 5-9-72, Cl. 340-274.

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Levy, Mortimer; and Augostini, Peter P., to Xerox Corporation. Process of stabilizing a migration image comprising selenium particles. 3,653,885, 4-4-72, Cl. 96-1.

Levy, Moshe: *See—*
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Levy, Raymond L., to Varian Associates. Electroduplication apparatus employing a conductive porous elastic pressure pad for pressing the recording medium against the photoconductor. 3,635,556, 1-18-72, Cl. 355-16.

Levy, Robert M.; Thiessen, Robert J.; and Growald, Bert, to Allied Paper Incorporated. Electrocomductive paper, electrographic recording paper, and method of making same. 3,653,894, 4-4-72, Cl. 96-1.7.

Levy, Robert M., to Allied Paper Incorporated. Thermally developable diazotype printing paper and composition therefore. 3,660,581, 5-2-72, Cl. 96-91.

Levy, Selden; Grant, Stuart; Coryell, Vincent; and Diamond, Fred. Visual effects for music. 3,692,389, 9-19-72, Cl. 352-5.000.

Levy, Stanley P., to Pichel Industries, Inc. Electronic lamp driving circuit for hand held lamp. 3,675,078, 7-4-72, Cl. 315-289.000.

Levy, Stephen David; and Wayne, Richard Steven, to American Cyanamid Company. Process for the direct synthesis of styrylpyridinium chlorides. 3,705,895, 12-12-72, Cl. 260-240.00d.

Lew, Baak W., to Atlas Chemical Industries, Inc. Process for preparing cyclic carbonates from polyhydric alcohols. 3,663,569, 5-16-72, Cl. 260-340.2.

Lew, Baak W., to Atlas Chemical Industries, Inc. Process for preparing mono- and polyglycosides. 3,707,535, 12-26-72, Cl. 260-210.00r.

Lew, Dong W.; and Proud, Ralph A., Jr., said Proud assor. to Harris-Intertype Corporation. Method for recording justified lines of typographic characters. 3,638,541, 2-1-72, Cl. 95-4.5.

Lewalter, Jurgen: *See—*
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Lewer, Hans; Dust, Hanspeter; and Thoennes, Martin. Process for binding of dust in mines. 3,657,135, 4-18-72, Cl. 252-88.

Lewicki, Reginald T., to Ford Motor Company. Positive displacement pump. 3,639,091, 2-1-72, Cl. 418-156.

Lewicki, Stephen. Prefabricated and prestressed modular furnace units. 3,665,870, 5-30-72, Cl. 110-1.

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Lewin, John Ernest. Area measurement. 3,652,842, 3-28-72, Cl. 235-183.

Lewis, Alan E.; and Voigt, Frederick W., Jr., to Eastman Kodak Company. Apparatus for use in a continuous flow reaction for producing a monomer and or a protopolymer. 3,644,096, 2-22-72, Cl. 23-263.

Lewis, Alan E.; and Voight, Frederick W., Jr., to Eastman Kodak Company. Continuous method for formation of a liquid monomer for a condensation polymer. 3,651,125, 3-21-72, Cl. 260-475.
Lewis, Alan E.; and Voight, Frederick W., Jr., to Eastman Kodak Company. Method for use in a continuous flow reaction for producing a monomer and or a protopolymer. 3,676,485, 7-11-72, Cl. 260-475.00p.
Lewis, Alan G. Tone arm automatic reset mechanism for an audio-visual device. 3,685,892, 8-22-72, Cl. 353-19.000.
Lewis, Albert D. Process for producing a marking receptive surface on a polystyrene substrate. 3,649,391, 3-14-72, Cl. 156-2.
Lewis, Albert F.: *See—*
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Lewis, Arthur E. In situ pressure leaching method. 3,640,579, 2-8-72, Cl. 299-4.
Lewis, Benjamin Arthur; Sassiver, Martin Leon; and Shepherd, Robert Gordon, to American Cyanamid Company. 7-(Phenylacetylamino)cephalosporin carboxamides and 7-(thiophene-2-acetylamino) cephalosporin carboxamides. 3,641,015, 2-8-72, Cl. 260-243.
Lewis, Benjamin D., to Phillips Petroleum Company. Method of preventing voids in a molded article. 3,632,731, 1-4-72, Cl. 264-296.
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Lewis, Bruce B. Emergency vehicle rescue device and method. 3,667,660, 6-6-72, Cl. 225-1.
Lewis, Carl M., to Trane Company, The. Heat exchanger apparatus and method of making the same. 3,683,656, 8-15-72, Cl. 72-98.000.
Lewis, Charles E., to McGraw-Edison Company. Self energizing tap switch for electronic tap changer. 3,668,511, 6-6-72, Cl. 323-43.550.
Lewis, Charles Edward. Non-ionic, nickel N-alkylamine arylazoaryl compounds. 3,705,888, 12-12-72, Cl. 260-151.000.
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Lewis, David W., to United States of America, Army. Rolamite safety and arming mechanism. 3,667,394, 6-6-72, Cl. 102-78.000.
Lewis, Donald E.; and Biesecker, Douglas A. Pilot-operated valves. 3,690,616, 9-12-72, Cl. 251-38.000.
Lewis, Donald E., to Ilex Optical Company, Inc. Shutter operating system. 3,696,726, 10-10-72, Cl. 95-53.0ea.
Lewis, Donald M.: *See—*
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Lewis, Donald R., to Shell Oil Company. Method of measuring the abrasiveness of an abrasive fluid. 3,678,273, 7-18-72, Cl. 250-83.00r.
Lewis, Dong Sing, to Gerity-Schultz Corporation. Automatic ladling system for delivering molten metal from furnace to die casting machine. 3,652,073, 3-28-72, Cl. 266-38.
Lewis, Elbert G. Fish cleaning trough for boats. 3,668,739, 6-13-72, Cl. 17-53.000.
Lewis Engineering Company, The: *See—*
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Lewis, Ernest E., to Gainesville Machine Company, Inc. Shackle suspension means. 3,686,712, 8-29-72, Cl. 17-44.100.
Lewis, Ernest E., to Gainesville Machine Company, Inc. Method and apparatus for killing fowl. 3,686,713, 8-29-72, Cl. 17-52.000.
Lewis, Ernest E., to Gainesville Machine Company, Inc. Poultry stunning apparatus. 3,702,017, 11-7-72, Cl. 17-11.000.
Lewis, Ernest E., to Gainesville Machine Company, Inc. Fowl vent removal apparatus and method. 3,705,440, 12-12-72, Cl. 17-11.000.
Lewis, Frank L. Grill cloth for loudspeaker. 3,635,307, 1-18-72, Cl. 181-31.
Lewis, Fred I. Vehicle seat belt non-use warning signal switch mounting. 3,703,618, 11-21-72, Cl. 250-85.00r.
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Lewis, George E.; and Murman, Fernando, to Hydril Company. Pig diverter. 3,674,123, 7-4-72, Cl. 193-23.000.
Lewis, George E., to Power Flo Products Incorporated. Shifting mechanism for multiple speed structure. 3,688,880, 9-5-72, Cl. 192-4.000.
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Lewis, Isabelle J. Bookholder. 3,674,231, 7-4-72, Cl. 248-451.000.
Lewis, Ivor J., to Westinghouse Electric Corporation. Combined hydraulic dump and control valve structure. 3,684,236, 8-15-72, Cl. 251-28.000.
Lewis, Ivor J., to Westinghouse Electric Corporation. Noise suppressing seat for a throttling valve. 3,704,726, 12-5-72, Cl. 137-625.300.
Lewis, Ivor James; and Stone, John T., to Westinghouse Electric Corporation. Servo-actuator mechanism. 3,687,017, 8-29-72, Cl. 92-165.000.
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Lewis, J. Stephen; Sapkus, Jurgis; and Villasana, Armando P., to Mattel, Inc. Object-holding hands for dolls. 3,696,553, 10-10-72, Cl. 46-116.000.
Lewis, J. Stephen; Sapkus, Jurgis; Antell, Earl O.; and Robson, George E., to Mattel, Inc. Floppy foam doll. 3,699,715, 10-24-72, Cl. 46-163.000.
Lewis, James C.; Lewis, Scott C.; and Hockett, Robert M., to Braden Steel Corporation. Prefabricated building sections. 3,702,046, 11-7-72, Cl. 52-125.000.
Lewis, James Gabriel; and Lewis, Owen Temple. Load-carrying or lifting devices. 3,693,740, 9-26-72, Cl. 180-8.00r.
Lewis, James M.; and Shirey, John E., to Horizons Incorporated. Polyvinylcarbazole photographic systems. 3,697,276, 10-10-72, Cl. 96-48.000.
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Gustavson, Lars-Goran; and Lindqvist, Per-Erik, 3,646,776.
Lindqvist, Rolf Artur Ronald: *See—*
Ahlberg, Erik Johan Victor; Ekwall, Gosta Bernhard; and Lindqvist, Rolf Artur Ronald, 3,659,657.
Lindqvist, Stig Gustaf; and Vaher, Ilmar Valfeid, to Telefonaktiebolaget L M Ericsson. Apparatus utilizing a tree network for companding and coding an analog signal in a PMC system. 3,638,124, 1-25-72, Cl. 325-141.
Lindros, Charles J.: *See—*
Ditonto, Alexander N.; and Lindros, Charles J., 3,655,125.
Lindsay, Charles H., to Fire Control Engineering Company. Apparatus for admixing fluids in predetermined proportions. 3,647,002, 3-7-72, Cl. 169-16.
Lindsay, Douglas J., to Eastman Kodak Company. Means for indicating the length of roll film in a film cartridge for processing purposes. 3,670,638, 6-20-72, Cl. 95-31.0ca.
Lindsay, Edward R., Jr., to Milton Roy Company. Patient support system. 3,644,950, 2-29-72, Cl. 5-347.
Lindsay, George F.; Sullivan, Shelby F.; and Whitehouse, Harper John, to United States of America, Navy. Correlators using shift registers. 3,670,151, 6-13-72, Cl. 235-181.000.
Lindsay, George F.; and Whitehouse, Harper John, to United States of America, Navy. Field-delineated acoustic wave device. 3,675,052, 7-4-72, Cl. 310-8.100.
Lindsay, James R.: *See—*
Zimmerman, Robert C.; and Lindsay, James R., 3,663,781.
Lindsay, John. Wind sock. 3,696,672, 10-10-72, Cl. 73-189.000.
Lindsay, Kenneth L.: *See—*
Cragg, Hoyt J.; and Lindsay, Kenneth L., 3,651,114.
Kobetz, Paul; Lindsay, Kenneth L.; and Cook, Shirl E., 3,691,221.
Kobetz, Paul; and Lindsay, Kenneth L., 3,696,161.
Lindsay Manufacturing Co.: *See—*
Zimmerer, Arthur L.; Zimmerer, Bernard J.; and Zimmerer, Paul B., 3,659,627.
Lindsay, Richard P.: *See—*
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Hahn, Robert S.; and Lindsay, Richard P., 3,694,969.
Lindsay Specialty Products Limited: *See—*
Crowhurst, David B.; and Thomas, John E., 3,641,464.
Nepovim, Zdenek, 3,668,612.
Nepovim, Zdenek, 3,671,926.
Pennypacker, Frank C., 3,671,885.
Pennypacker, Frank Chester, 3,676,744.
Lindsay, Thomas W., to Minnesota Mining and Manufacturing Company. Web cleaning apparatus. 3,641,605, 2-15-72, Cl. 15-1.5.
Lindsay, Wardell J.: *See—*
Johns, Richard J.; Shepard, Richard H.; and Lindsay, Wardell J., 3,659,586.
Lindsay, Wesley N., to International Telephone and Telegraph Corporation. Vacuum capacitor with solid dielectric. 3,639,816, 2-1-72, Cl. 317-245.
Lindsey, Alan Sidney; and Hunt, Sydney Edwin, to National Research Development Corporation. Polybenzoxazole amides, esters and thioesters, polybenzthiazole amides, esters and thioesters and preparation thereof. 3,676,399, 7-11-72, Cl. 260-47.0co.
Lindsey, Hiram E., Jr.: *See—*
Braddick, Britt O.; Lindsey, Hiram E., Jr.; and McKiearnan, Charles J., 3,640,341.
Lindsey, James M., to Sperry Sun Well Surveying Company. Borehole tool. 3,638,235, 1-25-72, Cl. 346-107.
Lindsey, James M. Data insertion system. 3,657,694, 4-18-72, Cl. 340-15.5.
Lindsey, James M., to Sperry Sun Well Surveying Company. Borehole data transmission system. 3,699,510, 10-17-72, Cl. 340-18.ctm.
Lindsey, James M.; and Stell, Thomas W., to Sperry Sun Well Surveying Company. Rotor tilt. 3,703,832, 11-28-72, Cl. 74-5.450.
Lindsey, James M., to Sperry Sun Well Surveying Company. Gyro servo control system and structure. 3,704,406, 11-28-72, Cl. 318-648.000.
Lindsey, James M., to Sperry Sun Well Surveying Company. Gyro servo control system and structure. 3,704,407, 11-28-72, Cl. 318-648.000.
Lindsey, Joseph W.; and Murphy, Larry O., to Bio-Logics, Inc. Respiration assembly and methods. 3,664,337, 5-23-72, Cl. 128-194.000.
Lindsey, L. E. Power conductor stringing assembly. 3,640,504, 2-8-72, Cl. 254-134.3.
Lindsey, L. E. Conductor clamp with means for anchoring a conductor stringing assembly thereto. 3,706,436, 12-19-72, Cl. 248-63.000.
Lindsey, Richard V.: *See—*
Drinkard, William C., Jr.; and Lindsey, Richard V., 3,676,475.
Lindsey, Richard V., Jr.: *See—*
Cramer, Richard D.; and Lindsey, Richard V., Jr., 3,636,122.
Lindsey, Royce D.: *See—*
Davis, William H.; Hornung, Louis M.; Lindsey, Royce D.; and Tanner, Howard C., 3,647,041.
Lindsjo, Olle: *See—*
Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindsjo, Olle; Nyholm, Erik; Poijarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, 3,677,696.
Lindsley, Carl Robert: *See—*
McBride, Frank J.; and Lindsley, Carl Robert, 3,701,975.
Lindstaedt, Horst Karl, to Masson Scot Thrissell Engineering Limited. Apparatus for preparing reels of sheet material for unwinding. 3,695,532, 10-3-72, Cl. 242-55.000.
Lindstaedt, Horst Karl, to Masson Scott Thrissell Engineering Limited. Means for unwinding reels of sheet material. 3,695,538, 10-3-72, Cl. 242-58.600.
Lindstaedt, Horst Karl, to Masson Scott Thrissell Engineering Limited. Multiple reel unwind stands. 3,695,539, 10-3-72, Cl. 242-58.600.
Lindstol, Anders, to Ecodyne Corporation, mesne. Method and apparatus for filtering a liquid. 3,701,423, 10-31-72, Cl. 210-80.000.
Lindstrom, Alrik Civer. Resealable closure for bottles and other containers. 3,704,819, 12-5-72, Cl. 222-546.
Lindstrom, Barry E.; and Robb, Donald A., to Wilkerson Corporation. Float valve for air line lubricators. 3,667,493, 6-6-72, Cl. 137-87.
Lindstrom, Cedric E., to Scandimant Aktiebolag. Method of manufacturing synthetic diamonds. 3,652,220, 3-28-72, Cl. 23-209.1.
Lindstrom, Eddie G.: *See—*
Honnen, Lewis R.; Andrewsen, Harry W.; and Lindstrom, Eddie G., 3,671,511.
Lindstrom, Gunnar; and Schullstrom, Gunde, to Saab Aktiebolag. Verifiable identification document. 3,636,318, 1-18-72, Cl. 235-61.12.
Lindstrom, Harold Richard: *See—*
Skromme, Arnold Burton; Lindstrom, Harold Richard; Henningsen, Etlar August; Beldin, Royal Lowell; Sorlie, Donald Thomas; and Eckert, Elmer Richard, 3,667,734.
Lindstrom, Jean H.: *See—*
Honnen, Lewis R.; Andrewsen, Harry W.; and Lindstrom, Eddie G., 3,671,511.
Lindstrom, John Werner. Shock absorbing device for a boat seat. 3,638,896, 2-1-72, Cl. 248-399.
Lindstrom, Kjell O. T.: *See—*
Hertz, Carl Hellmuth; and Lindstrom, Kjell O. T., 3,695,107.
Lindstrom, Olle B. Pyrolysis of hydrocarbons. 3,704,332, 11-28-72, Cl. 260-679.00r.
Lindstrom, Oscar H.; and Fischer, Nathan A., to Hormel, Geo. A., & Co. Skinning machine having a reciprocating fat removing knife mechanism thereof. 3,659,639, 5-2-72, Cl. 146-130.
Lindstrom, Roald E.: *See—*
Scheiner, Bernard J.; and Lindstrom, Roald E., 3,635,697.

Scheiner, Bernard J.; Lindstrom, Roald E.; and Henrie, Thomas A., 3,639,222.
Lindstrom, Roald E.; and Bauer, Donald J., to United States of America, Interior. Process for recovery of copper and other metals from source materials. 3,634,070, 1-11-72, Cl. 75-101.
Lindstrom, Ronald E.: *See—*
Scheiner, Bernard J.; Lindstrom, Ronald E.; and Henrie, Thomas A., 3,639,925.
Lindstrom, Sven-Olof: *See—*
Weibull, Bengt J. G.; Thorsell, Leif Urban Folke; and Lindstrom, Sven-Olof, 3,697,598.
Lindtveit, Torleif; Johnsen, Leif; and Haegland, Borge F.; deceased (by Haegland, Marit; legal representative). Methods for joining ends of wires and the like. 3,668,778, 6-13-72, Cl. 29-630.
Lindwall, Richard C.; and Crocker, Richard E., to Atlantic Richfield Company. Process for chlorination of saturated hydrocarbons. 3,654,107, 4-4-72, Cl. 204-163.
Lindy, Lowell B., to Dow Chemical Company, The. Method of bleaching sulfonate surfactants. 3,677,952, 7-18-72, Cl. 252-94.000.
Line & Rope Clamps, Inc.: *See—*
Higgins, Edward Ted, 3,644,966.
Higgins, Edward Ted, 3,704,488.
Line, George Harry: *See—*
Dodd, John Alton, Jr.; and Line, George Harry, 3,674,488.
Line, Lawrence L.: *See—*
Butler, Eugene B.; Fak, Ivan A.; and Line, Lawrence L., 3,644,229.
Linear Machine Company Limited: *See—*
Graham, William John, 3,688,946.
Linear Motion Technology, Inc.: *See—*
Zeidler, Herman Rudolf; and Aurnou, Ronald M., 3,688,410.
Lineback, Lynn D.: *See—*
United States of America, National Aeronautics and Space Administration, 3,706,583.
Lineberg, Birger David. Apparatus for measuring water impurities in oil. 3,695,095, 10-3-72, Cl. 73-61.10r.
Lineberry, Dewey D.; and Dudrow, Frank A., to Chemetron Corporation. Apparatus and method for deodorizing oils. 3,693,322, 9-26-72, Cl. 55-54.000.
Linecker, Josef. Swimming pool. 3,659,295, 5-2-72, Cl. 4-172.19.
Linen Supply Association of America, The: *See—*
Rosenfeld, Howard; and Wetzler, Justin J., 3,686,899.
Linenberg, Amos, to Hydronautics-Israel Ltd. Sampling valve and system for the detection of predetermined compounds in air. 3,675,466, 7-11-72, Cl. 73-23.100.
Lines, Jerry J., to K & K Manufacturing Inc. Ventilating system for livestock feeders. 3,648,662, 3-14-72, Cl. 119-71.
Lines, Jerry J. Convertible snowblower and lawn rake. 3,673,715, 7-4-72, Cl. 37-43.00e.
Linetsky, Semen Grigorievich: *See—*
Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Yakov Benediktovich, 3,648,471.
Ling, Bernt; Persson, Anders; and Svensson, Olof, to Allmanna Svenska Elektriska Aktiebolaget. Apparatus for determining visibility including a pulsed light source, a plurality of spaced reflectors, and a detector. 3,694,936, 10-3-72, Cl. 356-208.000.
Ling, Huei, to International Business Machines Corporation. Digital division by reciprocal conversion technique. 3,633,018, 1-4-72, Cl. 235-164.
Ling, Ting H.; and Solomon, Marwick H., to Anaconda Wire and Cable Company. Electric cable. 3,646,248, 2-29-72, Cl. 174-120.
Ling, Wei Tsing. Carding machines. 3,654,667, 4-11-72, Cl. 19-112.
Ling, Wilfred C.: *See—*
McFarland, Otho K.; Illich, George M., Jr.; and Ling, Wilfred C., 3,689,222.
Linge, Hermann: *See—*
Nieswandt, Werner; Linge, Hermann; Pirzer, Hans; Hoerauf, Werner; and Hetz, Herbert, 3,639,659.
Lingens, Paul: *See—*
Berthmann, Adolf; Lingens, Paul; and Morhenn, Ernst, 3,648,614.
Linger, Harris K., to General Electric Company. Combination electric griddle and cooktop. 3,632,982, 1-4-72, Cl. 219-447.
Linger, Harrison K.: *See—*
Erickson, Clifford E.; and Linger, Harrison K., 3,636,645.
Linger, Harrison K. Artist palette and carrying case. 3,650,589, 3-21-72, Cl. 312-231.
Linger, Harrison K. Artist's tool conditioning structure. 3,671,992, 6-27-72, Cl. 15-104.920.
Lingert, Birger Valdemar; and Lindblom, Axel Sture, to AB Bolinder-Munktell. System for sensing and indicating the set inclination of an object. 3,657,551, 4-18-72, Cl. 250-231.
Lingg, Gerhard; and Hellermann, Eberhard, to Mannesmann-Geisel GmbH, & Co. Airport check-in counter with baggage receiving and handling facility. 3,704,773, 12-5-72, Cl. 198-1.000.
Lingg, Gerhard; and Hirth, Alfred, to Mannesmann Aktiengesellschaft. Transition ramp for high speed roller track conveyors. 3,705,001, 12-5-72, Cl. 198-20.000.
Lingi, Paolo: *See—*
Cameli, Nazzareno; Lingi, Paolo; and Valvassori, Alberto, 3,651,009.
Lingle, Harrison C.: *See—*
Langas, Arthur; and Lingle, Harrison C., 3,641,656.
Lingle, Harrison C.; and Langas, Arthur, to Hartco Company. Method of and apparatus for producing uniform lengths of ribbon-connected fastener clips. 3,647,593, 3-7-72, Cl. 156-300.
Lingnau, Josef: *See—*
Hohn, Gerhard; Lingnau, Josef; and Rettemeier, Wulf, 3,679,131.
Lingnau, Josef, to Gestra-KSB Vertiebsgesellschaft mbH & Co. Thermal control element. 3,698,633, 10-17-72, Cl. 236-99.000.
Lingquist, Rolf Artur Ronald: *See—*
Ahlberg, Erik Johan; Ekwall, Gosta Berhard; and Lingquist, Rolf Artur Ronald, 3,684,033.
Lings, Gerhard; and Hellermann, Eberhard, to Mannesmann-Geisel GmbH & Co. Airport check-in counter with baggage receiving and handling facility. 3,666,073, 5-30-72, Cl. 198-1.
Lingwood, William: *See—*
Moskowitz, Seymour; and Lingwood, William, 3,706,508.
Linhardt, Hans D.: *See—*
Bryant, Gerald T.; Linhardt, Hans D.; and Nichols, Kenneth E., 3,696,975.
Linhart, Helmut: *See—*
Gerlach, Klaus; Grimm, Wolfgang; and Linhart, Helmut, 3,644,298.
Meyer, Ernst; Grimm, Wolfgang Erlenbach; Gerlach, Klaus; and Linhart, Helmut, 3,704,863.
Lininger, William W. Sea wave power generator. 3,644,052, 2-22-72, Cl. 415-7.
Lininger, William W. Wave powered generator. 3,687,567, 8-29-72, Cl. 415-7.000.
Link, David H., to Clark Equipment Company. Clamp attachment for lift truck and the like. 3,643,827, 2-22-72, Cl. 214-653.
Link, Edwin A., to RTE Corporation. Hot line connector. 3,668,609, 6-6-72, Cl. 339-97.
Link, Edwin A.; and Sankey, Edward L., to RTE Corporation. Current interrupting safe break terminator. 3,686,604, 8-22-72, Cl. 337-201.000.
Link Engineering Company: *See—*
Frederick, Robert E., 3,685,470.
Groat, Craig R.; and Happold, Manfred R., 3,641,813.
Groat, Craig R.; and Happold, Manfred R., 3,648,511.
Link, Helmut, to Index-Werke K.G., Hahn & Tessky. Speed change transmission. 3,654,819, 4-11-72, Cl. 74-360.
Link, Helmut, to Index-Werke KG. Adjusting apparatus for indexible tool turrets. 3,690,201, 9-12-72, Cl. 82-24.00r.
Link Industries, Inc.: *See—*
Watson, Walter E., 3,687,497.
Link, John T., to Magnavox Company, The. System for credit card validator and imprinter. 3,651,310, 3-21-72, Cl. 235-61.7.
Link, Manfred, to Triumph Werke. Mechanism for positioning single element type carriers. 3,677,384, 7-18-72, Cl. 197-16.000.
Link, Martin, to Johnson & Johnson. Container for flowable contents. 3,690,523, 9-12-72, Cl. 222-538.000.
Linke, Fritz: *See—*
Reuter, Martin; Beermann, Claus; and Linke, Fritz, 3,690,941.
Linke, Gerda: *See—*
Engelsmann, Dieter; Maas, Dieter; Schroder, Rolf; and Linke, Gerda, 3,667,366.
Linke, Werner: *See—*
Rosch, Gunter; Linke, Werner; Smerz, Otto; and Schinzel, Erich, 3,690,947.
Linke-Hofmann-Busch Waggon-Fahrzeug-Maschinen GmbH: *See—*
Duba, Erwin; and Fischer, Conrad, 3,672,311.
Findeklee, Heinz, 3,651,767.
Linkel, John E.: *See—*
Bochinski, Julius H.; and Linkel, John E., 3,698,699.
Linker, Roy E. Windshield wiper assembly. 3,667,083, 6-6-72, Cl. 15-250.42.
Linkins, Keith: *See—*
McMaster, Robert C.; Libby, Charles C.; and Linkins, Keith, 3,683,470.
Linkletter, Robert P. Spout-type safety dispensing cap. 3,677,445, 7-18-72, Cl. 222-153.000.
Linkletter, Robert P. Safety closure cap. 3,693,820, 9-26-72, Cl. 215-9.000.
Linkow, Leonard I. Bridge stabilizing system. 3,660,899, 5-9-72, Cl. 32-5.
Links, Heinz, to Bosch, Robert, G.m.b.H. Pump-and-nozzle assembly for injecting fuel into internal combustion engines. 3,689,205, 9-5-72, Cl. 417-401.000.
Linn, Albert L.: *See—*
Lindelof, Leonard A.; and Linn, Albert L., 3,692,320.
Linn, Bruce O.: *See—*

Shen, Tsung-Ying; Greenwald, Richard B.; Jones, Howard; Linn, Bruce O.; and Witzel, Bruce E., 3,654,349.

Linn, Wallace L.; and Voland, Elmo W., to Mallory, P. R., & Co., Inc. Timer with sandwiched internal escapement mechanism disposed between two programming means. 3,704,351, 11-28-72, Cl. 200-38.00r.

Linn, William Joseph; and Stiles, Alvin Barber, to Du Pont de Nemours, E. I., and Company. Process of dimerizing acrylonitrile. 3,655,724, 4-11-72, Cl. 260-465.8.

Linne, William F.: *See—*
Weick, Louis F.; and Linne, William F., 3,673,796.

Linnebuhr, Eckhard; deceased (by Linnebuhr, Karin; heir), to Arlac-Werk Heiko Ippen KG. Container for magnetizable articles. 3,704,777, 12-5-72, Cl. 206-1.00r.

Linnebuhr, Karin: *See—*
Linnebuhr, Eckhard, 3,704,777.

Linnenbank, Charles D., to Baldt Anchor and Chain Corporation. Chain connecting link. 3,664,122, 5-23-72, Cl. 59-85.

Linnenbecker, Udo: *See—*
Renner, Eskhard; and Linnenbecker, Udo, 3,703,849.

Linning, David Lees; and Cowking, Charles Brian, to United Kingdom Atomic Energy Authority. Nuclear reactor with secondary shut down control rod. 3,676,296, 7-11-72, Cl. 176-35.000.

Linning, David Lees, to United Kingdom Atomic Energy Authority. Flexible support wall for tube-in-shell heat exchanger. 3,680,627, 8-1-72, Cl. 165-162.000.

Lino Engineering, Inc.: *See—*
Chan, Ronald E., 3,643,214.

Linoli, Gianni; and Mannucci, Enzo Sergio, to Miles Laboratories, Inc. Method for determination of coupling compounds. 3,684,451, 8-15-72, Cl. 23-230.00r.

Linotype and Machinery Limited: *See—*
Surbrook, Louis M., 3,685,820.

Linquist & Vennum, mesne: *See—*
Braaten, Norman J., 3,696,409.

Linread Limited: *See—*
Powsey, Eric, 3,686,914.

Lins, Albert: *See—*
Killias, Rudolf, 3,633,223.

Lins, Stanley J., to Sperry Rand Corporation. Noise protection and rollover lockout for keyboards. 3,660,826, 5-2-72, Cl. 340-173.

Lins, Stanley J.; and Nelson, Charles J., to Sperry Rand Corporation. Method for sputter depositing dielectric materials. 3,699,034, 10-17-72, Cl. 204-192.000.

Linsen, Bastiaan Gerardus; and Osinga, Theo Jan, to Lever Brothers Company. Catalysts. 3,673,115, 6-27-72, Cl. 252-459.000.

Linser, Rudolf, to Stanzwerke Glarus AG. Lengthwise adjustable suspension device for articles, particularly sanitation and heating pipes. 3,667,709, 6-6-72, Cl. 248-59.000.

Linsley, Douglas F.: *See—*
Linsley, Douglas F., 3,687,101.

Linsley, Douglas F., to Linsley, Douglas F. and Linsley, Helen E. Marine rudder. 3,687,101, 8-29-72, Cl. 115-18.00b.

Linsley, Helen E.: *See—*
Linsley, Douglas F., 3,687,101.

Linson, Donald H., to Ohio Brass Company, The. Molded epoxy resin electrical insulating body containing alumina and silica. 3,645,899, 2-29-72, Cl. 252-63.5.

Linson Instrument Aktiebolag: *See—*
Ohlin, Lars Erik; and Lofvenmark, Jan Olof, 3,663,823.

Linstead, Robert Stanley, to King-Seeley Thermos Co. Toy vehicle. 3,662,488, 5-16-72, Cl. 46-201.000.

Linstromberg, William J.: *See—*
Nichols, Duane C.; and Linstromberg, William J., 3,659,430.

Linstromberg, William J.; and Nichols, Duane C., to Whirlpool Corporation. Defrost bimetal for interrupting timed cycle ice maker during defrost-two timers. 3,643,458, 2-22-72, Cl. 62-155.

Linstromberg, William J., to Whirlpool Corporation. Clutch for domestic ice maker with defrost timer drive motor. 3,648,476, 3-14-72, Cl. 62-137.

Linstromberg, William J., to Whirlpool Corporation. Defrost circuit for refrigerator. 3,648,478, 3-14-72, Cl. 62-157.

Linstromberg, William J., to Whirlpool Corporation. Water fill shut-off control for a domestic icemaker. 3,675,437, 7-11-72, Cl. 62-137.000.

Linthout, Theodoor Hillebrand, to Grinten, Van Der, N.V. Force-fitted pin-and tube joint and a frame for an apparatus provided with such a joint. 3,680,897, 8-1-72, Cl. 287-20.00r.

Linton, Denton C.; Zinkl, Andrew; and Ballam, Jack, to Micro Copper Corporation. Continuous process to precipitate high purity copper powder from acid leaching liquors containing copper in solution. 3,679,399, 7-25-72, Cl. 75-109.000.

Linton, Howard R., to Du Pont de Nemours, E. I., and Company. Process for making silica-coated lead chromate pigments and product thereof. 3,639,133, 2-1-72, Cl. 106-298.

Linton, Richard H.: *See—*
Donofrio, Nicholas M.; and Linton, Richard H., 3,706,891.
Simone, Roy R. De; and Linton, Richard H., 3,704,384.

Linton, Richard H.; and Palfi, Thomas L., to International Business Machines Corporation. Data regeneration scheme without using memory sense amplifiers. 3,646,525, 2-29-72, Cl. 340-173.

Linton, Robert W.: *See—*
Sams, Robert H.; Linton, Robert W.; and Horikawa, Noboru R., 3,679,610.
Sams, Robert H.; Linton, Robert W.; and Weldes, Helmut H., 3,687,640.

Linton, Thomas W., to Snyder Trailer Company, The. Convertible table. 3,636,892, 1-25-72, Cl. 108-79.

Lintz, Ervin E. Fishing float. 3,673,729, 7-4-72, Cl. 43-43.110.

Linville, Richard D., to National Manufacturing Co. Load measuring system. 3,648,793, 3-14-72, Cl. 177-210.

Linville, Richard O., to Budd Company, The. Vertically expansible cargo vehicle body. 3,694,024, 9-26-72, Cl. 296-26.000.

Linville, Roy Norman, to Truck Equipment Corporation. Refuse packer body. 3,672,520, 6-27-72, Cl. 214-82.000.

Linz, Charles W.: *See—*
Hurst, Kenneth; and Linz, Charles W., 3,631,555.

Linz, Georg; and Sommer, Lothar, to Linz, Georg, Firma. Method of making a ball point pen or a refill therefor. 3,678,565, 7-25-72, Cl. 29-441.000.

Linz, Georg, Firma: *See—*
Linz, Georg; and Sommer, Lothar, 3,678,565.

Linz, Peter Alois, to Moeller & Neumann GmbH. Drive for a roller bed mounted behind the cross-cut shears in a shearing line for metal plates. 3,664,662, 5-23-72, Cl. 271-51.000.

Linzer, Frederick D.; and Price, Harold M. Mid-stream urine specimen and fractional fluid collectors. 3,635,091, 1-18-72, Cl. 73-421.

Linzer, Frederick D. Apparatus for simultaneously supporting, cooling and shaping glass sheet and the like. 3,665,730, 5-30-72, Cl. 65-182.000.

Linzmeier, Leonard J. Material cart. 3,669,464, 6-13-72, Cl. 280-47.340.

Lion Fat & Oil Co., Ltd.: *See—*
Marumo, Hideo; Ninomiya, Morio; and Watanabe, Shinro, 3,671,504.
Nagayama, Masuzo; and Kawana, Terunosuke, 3,658,671.
Nagayama, Masuzo; and Kawana, Terunosuke, 3,666,797.
Nagayama, Masuzo; and Okada, Hiroshi, 3,705,192.
Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; Ito, Humio; and Murakami, Keiichi, 3,660,551.
Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; Murakami, Keiichi; and Hirakawa, Michio, 3,687,890.
Susuki, Rinnosuke; Hoshi, Hiroshi; Satto, Jiro; and Okada, Minoru, 3,691,120.
Tanaka, Ryohei, 3,677,821.
Yamane, Izumi; Nagayama, Masuzo; and Takai, Makoto, 3,705,139.

Lion Oil Tool Holdings (International) Limited: *See—*
Groom, William James, 3,660,889.

Lion Precision Corporation: *See—*
Michelson, Louis, 3,679,972.

Lionetto, Anthony. Protective guard fixture. 3,662,993, 5-16-72, Cl. 256-65.

Liongas Aktiengesellschaft: *See—*
Elkuch, Ludwig, 3,640,320.

Liotta, Alfonso L. Golf practicing device. 3,697,080, 10-10-72, Cl. 273-186.00r.

Liotta, Alfonso L. Golf putter including spherical head with mirror reflecting surface. 3,700,244, 10-24-72, Cl. 273-183.00d.

Liotta, Lance A. Aerial toy. 3,673,732, 7-4-72, Cl. 46-74.00d.

Liouville, Roger, to Herckelbout et Fils Societe Anonyme. Machine for the alternate cambering of a metallic thread. 3,670,781, 6-20-72, Cl. 140-71.00r.

Liouville, Roger. Machine for perforating paper sheets and the like. 3,684,391, 8-15-72, Cl. 408-42.000.

Lipe Corporation: *See—*
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Lipe, Jerome G., to Celanese Corporation. Method and apparatus for forming article filled with filament fiberfill. 3,673,036, 6-27-72, Cl. 156-250.000.

Lipe-Rollway Corporation: *See—*
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Lipkin, Martin. Inflatable safety balloon with inertial means of actuation. 3,706,463, 12-19-72, Cl. 280-150.0ab.
Lipkins, Morton S. Hollow retroreflectors. 3,663,084, 5-16-72, Cl. 350-102.
Lipkowski, William J. Manual coupler for writing instruments. 3,666,372, 5-30-72, Cl. 401-8.
Lipner, Stuart. Method of preparing comminuted meat products. 3,644,128, 2-22-72, Cl. 99-108.
Liposky, Richard B. Hand operable selector valve. 3,678,959, 7-25-72, Cl. 137-625.110.
Lipovetsky, Lazar Moiseevich: *See—*
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Lipowski, Stanley A.; and Queen, John C., Jr., to Diamond Shamrock Corporation. Polyacrylamide-epoxidized aminoplast-urea condensates. 3,703,563, 11-21-72, Cl. 260-836.000.
Lipp, George D.; Rahe, Villem; and Roberts, Lawrence B., to Corning Glass Works. Apparatus for and method of orienting cords in a molten glass downdraw bowl. 3,663,195, 5-16-72, Cl. 65-132.
Lipp, James: *See—*
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Cobb, Richard O.; and Lipp, James, 3,633,183.
Lipp, James, to International Business Machines Corporation. External light deflection apparatus. 3,642,347, 2-15-72, Cl. 350-150.
Lipp, James, to International Business Machines Corporation. Printing plate recording by direct exposure. 3,664,737, 5-23-72, Cl. 355-18.000.
Lipp, James P., to Honeywell Information Systems, Inc., mesne. High density storage and retrieval system. 3,643,228, 2-15-72, Cl. 340-172.5.
Lipp, James P.; and Jones, William H., to Honeywell Information Systems Inc., mesne. Method and apparatus for detecting binary data by polarity comparison. 3,671,935, 6-20-72, Cl. 340-146.1ab.
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Lippisch, Alexander M. Aerofoilboat. 3,661,111, 5-9-72, Cl. 114-67.
Lippitsch, Josef, to Waagner-Biro Aktiengesellschaft. Heat exchanger structure for steam generators. 3,656,546, 4-18-72, Cl. 165-81.
Lippitt, David L.; and Schlunk, Rainer W., to General Electric Company. Method and apparatus for aluminum potline control. 3,660,256, 5-2-72, Cl. 204-67.
Lippitt, Raymond F.: *See—*
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Lippman, Alfred E., to Monsanto Company. Preparation of carboxylic acid chlorides. 3,636,102, 1-18-72, Cl. 260-544.
Lippman, Gerald, to Thermo-Dielectric Machine Co., Inc. Box manufacturing apparatus. 3,643,554, 2-22-72, Cl. 93-36.3.
Lippmann, Arthur W., to Hewitt-Robins Incorporated. Gyratory crusher. 3,666,188, 5-30-72, Cl. 241-213.
Lippmann, Wilbur, to Ayerst, McKenna & Harrison Limited. Method of treating hyperchlorhydria and/or associated conditions. 3,670,088, 6-13-72, Cl. 424-275.
Lippmann, Wilbur, to Ayerst, McKenna & Harrison, Limited. Method of treating hyperchlorhydria and/or associated conditions. 3,697,654, 10-10-72, Cl. 424-330.000.
Lippy, Joseph Edmund, Jr.: *See—*
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Lipschutz, Paul; and Lercy, Jean-Pierre, to Societe d'Exploitation des Brevets Neiman S.A. Anti-theft devices. 3,688,861, 9-5-72, Cl. 180-114.000.
Lipscomb, George Winfred, to Westinghouse Electric Corporation. Meter reading system having digital encoder. 3,691,547, 9-12-72, Cl. 340-204.000.
Lipscomb, Walter P.: *See—*
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Lipshield, Eugene C.: *See—*
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Liska, Manfred; and Hubner, Klaus, to Siemens Aktiengesellschaft. Supervisory device for rectifier having semiconductor valve type components. 3,643,130, 2-15-72, Cl. 317-40.
Liska, Manfred; and Hubner, Klaus, to Siemens Aktiengesellschaft. Start circuit for DC motor having a thyristor commutator. 3,696,277, 10-3-72, Cl. 318-138.000.
Liska, Vladimir D. Precast panel building structure and method of erecting the same. 3,638,371, 2-1-72, Cl. 52-91.
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Liskowitz, John W., to American Standard, Inc. Measuring of the concentration of solid particles suspended in various regions in a fluid using polarized light. 3,640,626, 2-8-72, Cl. 356-103.
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Lissau, Frederic, to Liquidonics Inc. Fluid displacement pressure gauges. 3,643,510, 2-22-72, Cl. 73-393.
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List, Heinz. Multiple-spindle mixing kneader apparatus. 3,689,035, 9-5-72, Cl. 259-104.000.
List, Herbert A., to List Industries Inc. Locking mechanism for portable gate. 3,674,081, 7-4-72, Cl. 160-161.000.
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List, William F.; and Anders, Roland A., to Westinghouse Electric Corporation. Signal variation enhancement system. 3,653,014, 3-28-72, Cl. 340-203.
Lister, Fred; and Wax, Ludwig A., to Standard Brands Chemical Industries, Inc. Flame resistant latex compositions, articles made therefrom and processes for producing same. 3,639,298, 2-1-72, Cl. 260-2.5.
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Liston, Thomas V., to Chevron Research Company. Polymeric metal dialkaryldithiophosphates. 3,654,328, 4-4-72, Cl. 260-429.9.
Liston, Thomas V., to Chevron Research Company. Dispersion of terephthalic acid in detergent containing hydrocarbon oil medium. 3,692,681, 9-19-72, Cl. 252-51.50a.
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Litchfield, John H.; and Vely, Victor G., to Wrigley, Wm., Jr., Company. Anticaries chewing gum. 3,651,206, 3-21-72, Cl. 424-48.
Litchfield, John H.; and Vely, Victor G., to Wrigley, Wm., Jr., Company. Dialdehyde-containing anti-caries chewing gum compositions. 3,679,792, 7-25-72, Cl. 424-48.000.
Litchfield, Mason Rawleigh; and Scott, Floyd Logan, Jr., to Smith International, Inc., mesne. Mud saver valve and method. 3,698,426, 10-17-72, Cl. 137-512.000.
Litchford, George B., to United States of America, National Aeronautics and Space Administration. Altitude measuring system. 3,696,418, 10-3-72, Cl. 343-11.00r.
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Litman, Bernard; and Silvia, Everett R., to AMBAC Industries Incorporated. Center thrust retainer for spherical race ball bearing. 3,698,776, 10-17-72, Cl. 308-35.000.
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Litt, Morton H.; Lund, Richard B.; Vitrone, John; Herz, Jack L.; and O'Donnell, Francis C., to Allied Chemical Corporation. Process for the preparation of cyclic iminolthers. 3,681,333, 8-1-72, Cl. 260-244.00r.
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Little, Carl H., to Weber-Knapp Company. Hinge latch. 3,678,536, 7-25-72, Cl. 16-144.000.

Little, Carl H., to Weber-Knapp Company. Hinge latch. 3,688,342, 9-5-72, Cl. 16-144.000.

Little, David W., to General Electric Company. Static network protective relay. 3,697,811, 10-10-72, Cl. 317-27.00r.

Little, Donald R. Portable useful horsepower measuring instrument. 3,693,426, 9-26-72, Cl. 73-133.000.

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Little, Edwin D.; and Cheema, Zafarullah K., to Allied Chemical Corporation. Catalytic hydrogenation of alpha methyl styrene. 3,646,235, 2-29-72, Cl. 260-667.

Little, Edwin D., to Allied Chemical Corporation. Pyrolysis of tris (2-carboxyethyl)-isocyanurate. 3,697,584, 10-10-72, Cl. 260-486.

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Little, Ernest Lewis, Jr., to Du Pont de Nemours, E. I., and Company. Submicron ferromagnetic alloy particles containing cobalt, boron, and zinc. 3,672,867, 6-27-72, Cl. 75-.5aa.

Little, Glen Melvon. Swimming pool for horses. 3,691,995, 9-19-72, Cl. 119-29.000.

Little, Glen Melvon. Horse barn. 3,693,592, 9-26-72, Cl. 119-16.000.

Little, Jane, to McDonnell Douglas Corporation. Cooled hydraulic system. 3,699,847, 10-24-72, Cl. 91-411.00r.

Little, John C., to GTE Sylvania, Incorporated. Fluid analyzer apparatus. 3,677,652, 7-18-72, Cl. 356-183.000.

Little, John W.; and Cebula, Thaddeus J., to Sears, Roebuck and Co. Combination jacket and hood. 3,698,014, 10-17-72, Cl. 2-84.000.

Little, Joseph P.; and Clouse, Jerry A., to Caterpillar Tractor Company. Fuel priming pump. 3,669,576, 6-13-72, Cl. 417-571.000.

Little, Little J.; and Hunter, Joe S., to United States of America, Army. Compensated output solid state differential accelerometer. 3,646,818, 3-7-72, Cl. 73-517.

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Little, William S., Jr., to Xerox Corporation. Interferometric scanning apparatus and method. 3,650,604, 3-21-72, Cl. 350-163.

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Little, William S., Jr.; and Townsend, Robert H., to Xerox Corporation. Liquid applicator. 3,703,459, 11-21-72, Cl. 204-300.

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Littman, Fred E., to McDonnell Douglas Corporation. Modified cellulose ester semi-permeable membrane. 3,642,773, 2-15-72, Cl. 260-229.

Littmann, David, to Minnesota Mining and Manufacturing Company. Monitoring devices. 3,633,703, 1-11-72, Cl. 181-24.

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Litzler, Alfred; Ramanathan, Visvanathan; Hegar, Gert; Koller, Eugen Johann; and Milicevic, Branimir, to Ciba Limited. Process for continuous dyeing polyacrylonitrile textile material in a hydrophobic solvent dyebath. 3,663,161, 5-16-72, Cl. 8-174.

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Liu, Robert Chung-Huan: *See*—
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Liu, Tung; and Stern, David R., to Occidental Petroleum Corporation. Process for the treatment of slimes and waste solids. 3,680,698, 8-1-72, Cl. 210-46.000.

Liu, Wen Chih, to Pfizer Inc. Active material of Entada phaseoloides. 3,641,243, 2-8-72, Cl. 424-195.

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Livingood, Harry Harlan, to Builders Sand Company. Method and apparatus for testing fine aggregate samples. 3,690,183, 9-12-72, Cl. 73-432.0ps.

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Livingston, Douglas J., to Harowe Servo Controls Inc. Single drag cup motor generator. 3,641,376, 2-8-72, Cl. 310-113.

Livingston, Jimmy Y., to Catalysts and Chemicals Inc. Purification of process gas streams by hydrogenation. 3,679,763, 7-25-72, Cl. 260-677.00h.

Livingston, Richard D., to Amerock Corporation. Drawer slide assembly for self-closing drawer. 3,697,140, 10-10-72, Cl. 308-3.800.

Livingston, Richard W.; and Michaels, George L. Automatic chemical feeder apparatus. 3,672,391, 6-27-72, Cl. 137-240.000.

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Livingston, William H. Neutralization of the systemic toxic principle in oak by feeding iron compounds. 3,694,549, 9-26-72, Cl. 424-147.000.

Livingston, William L., to Factory Mutual Research Corporation. Method of stopping flow in a pipeline. 3,631,870, 1-4-72, Cl. 137-15.

Livingston, William L., to Factory Mutual Research Corporation. Fixed fire extinguishing system with additive injection apparatus. 3,642,072, 2-15-72, Cl. 169-15.

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Livingston, William L., to Factory Mutual Research Corporation. Fire control system. 3,645,337, 2-29-72, Cl. 169-14.

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Livingston, William L.; and Tine, Sebastian David, to Factory Mutual Research Corporation. Fire-responsive sprinkler head. 3,651,869, 3-28-72, Cl. 169-38.

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Livingston, William L., to Factory Mutual Research Corporation. Method of fighting a fire. 3,669,191, 6-13-72, Cl. 169-1.00a.

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Livingston, William L., to Factory Mutual Research Corporation. Adaptive sprinkler head. 3,684,025, 8-15-72, Cl. 169-37.

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Livingston, William L., to Factory Mutual Research Corporation. Discharge head for a fixed fire-extinguishing system. 3,685,588, 8-22-72, Cl. 169-37.000.

Livingston, William L., to Factory Mutual Research Corporation. Method and apparatus for fighting fire. 3,698,481, 10-17-72, Cl. 169-16.000.

Livingston, William L., to Factory Mutual Research Corporation. Fire protection system utilizing high-capacity direct discharge nozzles. 3,698,482, 10-17-72, Cl. 169-16.000.

Livingston, William L.; and Munson, Carl Marshall, to Factory Mutual Research Corporation. Fixed fire extinguishing system using delayed additive injection. 3,702,158, 11-7-72, Cl. 169-15.000.
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Ljung, Bo Hans Gunnar, to AGA Aktiebolag. Failure indicating arrangements for gyroscopes. 3,696,363, 10-3-72, Cl. 340-248.00b.
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Lloyd, Allen H.; and Beckman, William J., to Tech-Art, Inc. Machine for brushing and stacking carton blanks. 3,678,525, 7-25-72, Cl. 15-77.000.
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Lloyd, Robert H. F., to International Business Machines Corporation. Integrated clamping circuit. 3,654,530, 4-4-72, Cl. 317-235.
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Lloyd, Samuel H., to Santa Fe International Corporation. Column stabilized stinger transition segment and pipeline supporting apparatus. 3,704,596, 12-5-72, Cl. 61-72.300.
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Lockard, Joseph Larue; and Rose, William Henry, to AMP Incorporated. Thumbwheel switch with floatingly positioned actuator. 3,665,127, 5-23-72, Cl. 200-11.0tw.

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Lockwood, Glynn H., to Lockwood Technical, Inc. Inverted wheel applicator. 3,636,921, 1-25-72, Cl. 118-259.

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Loeffler, Robert W.; Loeffler, Walter W., Jr.; and Stubbs, Edward L., to Ler-Son Company, Incorporated. Method for external coating of cylindrical objects. 3,689,311, 9-5-72, Cl. 117-94.000.

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Loev, Bernard, to Smith Kline & French Laboratories. 3-Aminomethylpyrazolinones 3-aminomethylpyrazoles. 3,637,737, 1-25-72, Cl. 260-310.

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Loewenthal, Horst, to Schweizerische Industrie-Gesellschaft. Dosaging device for viscous substances. 3,667,653, 6-6-72, Cl. 222-217.000.

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Loftus, Wallace D., to Westinghouse Electric Corporation. Electronic current to voltage converter. 3,634,747, 1-11-72, Cl. 321-16.
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Logan, Henry H. Convertible solenoid-actuated, balanced spool valve. 3,653,396, 4-4-72, Cl. 137-270.
Logan, Henry H. Actuator. 3,698,187, 10-17-72, Cl. 60-52.07s.
Logan, James Rollin. Elevational positioning and supporting device. 3,701,510, 10-31-72, Cl. 254-47.000.
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Lohr, Thomas E., to Allied Chemical Corporation. Automobile rear seat and interior side panel assembly. 3,632,157, 1-4-72, Cl. 296-31.
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Lohr, Thomas E., to General Motors Corporation. Infinite position hold open hinge. 3,643,289, 2-22-72, Cl. 16-142.
Lohr, Thomas E.; and Stephenson, Robert L., to Allied Chemical Corporation. Vehicle seat having restraint system within trim. 3,663,057, 5-16-72, Cl. 297-388.000.
Lohr, Thomas E., to Allied Chemical Corporation. Vehicle safety assembly. 3,674,284, 7-4-72, Cl. 280-150.0ab.
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Long, Cyril E. Two passenger cycle. 3,664,684, 5-23-72, Cl. 280-231.000.
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Long, Dorothy Dolores. Long shoulder pad. 3,690,211, 9-12-72, Cl. 84-280.000.
Long, Edward M., to Ampex Corporation. Loudspeaker system. 3,645,355, 2-29-72, Cl. 181-31.
Long, Elton B.; and Short, Arthur G., to Case, J. I., Company. Load compensating hydraulic circuit. 3,653,523, 4-4-72, Cl. 214-138.
Long, Eric L., to Cherry Electrical Products Corporation. Tilt switch with elongated switch blade mounted on a triangular pivot for wiping action. 3,674,966, 7-4-72, Cl. 200-164.000.
Long, Eric L., to Cherry Electrical Products Corporation. Mechanical key lock-in. 3,678,255, 7-18-72, Cl. 235-145.00r.
Long, Ernest L.: *See—*
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Long, Ernest L.; and Ring, Charles M. Stable power amplifier circuit. 3,693,106, 9-19-72, Cl. 330-17.000.
Long, Ernest L., to Motorola, Inc. Stable power amplifier circuit. 3,693,107, 9-19-72, Cl. 330-17.000.
Long, Ernest T., to United States of America, Navy. Process for manufacture of stripline circuit modules. 3,700,446, 10-24-72, Cl. 96-362.000.
Long, Ernest W.: *See—*
Faramarzpour, Faramarz; and Long, Ernest W., 3,652,164.
Long, Erwin L. Method and apparatus for improving bearing strength of piles in permafrost. 3,706,204, 12-19-72, Cl. 61-46.000.
Long, Frank; and Ensor, Gordon R., to Monsanto Chemicals Limited. Impregnated reinforcing materials. 3,634,130, 1-11-72, Cl. 117-121.
Long, Frank; and Ayad, Kamal Naguib, to Monsanto Chemicals Limited. Pyridines and phytotoxic compositions. 3,697,251, 10-10-72, Cl. 71-94.000.
Long, Fred E., to General Tire & Rubber Company, The. Method of forming patterns on substrate surfaces. 3,655,421, 4-11-72, Cl. 117-45.
Long, Geoffrey, to United Kingdom Atomic Energy Authority. Carbon content analysis. 3,672,844, 6-27-72, Cl. 23-253.00r.
Long, Geoffrey, to United Kingdom Atomic Energy Authority. Carbon content analysis. 3,681,032, 8-1-72, Cl. 23-254.00r.
Long, George E., III; Grove, Francis D.; and Bartch, Donald W., to RCA Corporation. Lithium silicate glare-reducing coating and method of fabrication on a glass surface. 3,635,751, 1-18-72, Cl. 117-94.
Long, George E., III; and Bartch, Donald Walter, to RCA Corporation. Spray method for producing a glare-reducing coating. 3,689,312, 9-5-72, Cl. 117-94.000.
Long, George W.: *See—*
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Long, Hugh M., to Union Carbide Corporation. Porous fluid cooled electrical conductors and method for making same. 3,636,620, 1-25-72, Cl. 29-599.
Long Island Mold and Tool Corporation: *See—*
Vath, William, 3,687,246.
Long Island Oyster Farms, Inc.: *See—*
Mulhall, James Edward, 3,679,478.
Long, J. Burton; deceased (by Long, Clarice Cleland; executrix). Radio remote control for a slide projector. 3,675,226, 7-4-72, Cl. 343-225.000.
Long, Jack D.; and Richards, David, to Fitchburg Paper Company. Plastic laminate structure consisting of a plastic film laminated to a substrate with a resin impregnated paper intermediate layer. 3,663,353, 5-16-72, Cl. 161-184.000.
Long, Jack L., to United States of America, Atomic Energy Commission. Capacitance method and apparatus for detecting an interface between electrically conductive immiscible liquids. 3,644,821, 2-22-72, Cl. 324-61.
Long, Jacques, to Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique Alcatel. Device for continuous treatment of articles. 3,643,058, 2-15-72, Cl. 219-121.
Long, James A.: *See—*
Pittman, Carl R.; and Long, James A., 3,691,298.
Long, James A., to United States of America, Army. Solid rocket thrust termination device. 3,705,550, 12-12-72, Cl. 102-49.500.
Long, John A. Wood splitting apparatus. 3,670,789, 6-20-72, Cl. 144-193.00d.
Long, John E.: *See—*
Jensen, Edward R.; Long, John E.; and Williams, Leamon D., 3,666,557.
Long, John Geoffrey, to Pavelle Corporation, The. Light monitoring device for use with color photographic apparatus. 3,647,296, 3-7-72, Cl. 355-38.
Long, Joseph Harold: *See—*
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Long Mfg. N. C. Inc.: *See—*
Long, William R., 3,678,667.
Long, Norwood G.; and May, Carl J., Jr., to Bell Telephone Laboratories, Incorporated. Switching strategy for mixed delay transmission channels. 3,681,533, 8-1-72, Cl. 179-15.0as.
Long, Parley C.: *See—*
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Long, Paul J., Jr.: *See—*
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Long, Robert B.; Caruso, Fred A.; DeFeo, Richard J.; and Walker, David G., said Long, said Caruso and said DeFeo assor. to Esso Research and Engineering Company. Bimetallic salts and derivatives thereof, their preparation and use in the complexing of ligans. 3,651,159, 3-21-72, Cl. 260-667.
Long, Robert C. Tire-removal device. 3,706,335, 12-19-72, Cl. 157-1.170.
Long, Robert E., Jr.: *See—*
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Long, Robert G.: *See—*
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Long, Virgil L., Sr., to Mid-Iowa Concrete Products Co. Apparatus for making hollow concrete articles. 3,662,437, 5-16-72, Cl. 25-36.
Long, Wendell P.: *See—*
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Long, Wendell P., to Hercules Incorporated. Polymerization of ethylene with supported hydrocarbon titanium activated with alkylaluminum. 3,635,935, 1-18-72, Cl. 260-94.9.
Long, Wendell P., to Hercules Incorporated. Polymerization of propylene with a chromium oxide catalyst activated with a trihydrocarbon aluminum modified with water. 3,639,378, 2-1-72, Cl. 260-93.7.
Long, Wendell P., to Hercules Incorporated. Polymerization of propylene with a chromium oxide catalyst activated with group IV-A metal hydrocarbon. 3,639,379, 2-1-72, Cl. 260-93.7.

Long, Wendell P., to Hercules Incorporated. Light activation of tetraalkylchromium compounds in polymerization of olefins. 3,694,422, 9m26-72, Cl. 260-93.700.
Long, William D.; Fell, Ferol S.; Wells, Bernard L.; and Prichard, John P., 1/2 to Hesston Corporation and 1/2 to Field Queen Incorporated. Transmission for forage harvesters and the like. 3,670,590, 6-20-72, Cl. 74-353.000.
Long, William J.: *See—*
Johnston, William D.; and Long, William J., 3,645,196.
Long, William P.: *See—*
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Long, William R., to Long Mfg. N. C. Inc. Loose peanut recovery apparatus. 3,678,667, 7-25-72, Cl. 56-130.000.
Long, William W., III, to Carborundum Company, The. Last cleaning arrangement. 3,688,445, 9-5-72, Cl. 51-14.000.
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Longenecker, Bruce Cameron; De Lyon, Armand Rene; and Kensinger, Lex Donald, to AMP Incorporated. Pin receptacle and carrier members therefor. 3,634,879, 1-11-72, Cl. 339-176.
Longenecker, John G., to Ael Food Automation, Inc. Quick clearing extruder and adjustable extruder die assembly for foodstuffs. 3,680,994, 8-1-72, Cl. 107-14.00c.
Longenecker, Levi S. Processing and preheating scrap metal for furnace utilization. 3,632,094, 1-4-72, Cl. 263-36.
Longensiepen, Max, Kom. Ges.: *See—*
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Longhi, Anthony M., to United States Steel Corporation. Starter bar for continuous casting with electromagnetically secured mold stool. 3,684,002, 8-15-72, Cl. 164-274.000.
Longhi, Giuseppe. Apparatus for making shaped bores in a continuous strip. 3,677,055, 7-18-72, Cl. 72-326.000.
Longhini, Fernando, to Aeroponica S.p.A. Apparatus for the hydroponic cultivation of vegetables. 3,667,157, 6-6-72, Cl. 47-1.2.
Longi, Paolo: *See—*
Cameli, Nazzareno; Longi, Paolo; Valvassori, Alberto; and Parodi, Sandro, 3,651,032.
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Longi, Paolo; Greco, Francesco; and Bernasconi, Ermanno, to Montecatini Edison S.p.A. High molecular weight, vulcanizable terpolymers of ethylene, propylene and alkenylsilanes and processes for the preparation thereof. 3,644,306, 2-22-72, Cl. 260-80.71.
Longi, Paolo; Valvassori, Alberto; Greco, Francesco; and Bernasconi, Ermanno, to Montecatini Edison S.p.A. Unsaturated partially crystalline terpolymers of ethylene, propylene and hydrocarbon dienes or polyenes, and process for preparing said terpolymers. ,658,770, 4-25-72, Cl. 260-79.5.
Longi, Paolo; Valvassori, Alberto; Greco, Francesco; and Bernasconi, Ermanno, to Montecatini Edison S.p.A. Elastic films, fibers and other manufactured articles based on unsaturated olefinic copolymers. 3,660,364, 5-2-72, Cl. 260-80.78.
Longi, Paolo; Valvassori, Alberto; Greco, Francesco; and Bernasconi, Ermanno, to Montecatini Edison S.p.A. Manufactured shaped articles of unsaturated olefinic copolymers. 3,684,782, 8-15-72, Cl. 260-80.780.
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Longland, George M., Jr., to Standard Oil Company (Indiana). Integrated oxidation of isomeric xylene mixture to isomeric phthalic acid mixture and separation of mixture of isomeric phthalic acids into individual isomer products. 3,683,018, 8-8-72, Cl. 260-24.00r.
Longland, John R.; Williams, Roy M., Jr.; Sutton, Howard D.; and Scopelite, Thomas M., to Sanders Associates, Inc. Position busy signalling apparatus. 3,641,324, 2-8-72, Cl. 235-151.
Longley, Kermit D.; and Bernstein, Carl, to Witco Chemical Corporation. Polyurethanes derived from alkylene oxide adducts of trimethylol phenols and of polymers thereof. 3,682,845, 8-8-72, Cl. 260-2.5ap.
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Longo, Frank N.; and Patel, Mahesh S., to Metco Inc. Ceramic clad flame spray powder. 3,655,425, 4-11-72, Cl. 117-100.
Longo, Hans-Eberhard; Keller, Wolfgang; and Vogel, Carl-Heinz, to Siemens Aktiengesellschaft. Method of growing rod-shaped dislocation-free monocrystals, particularly of silicon, by crucible-free floating zone melting. 3,655,345, 4-11-72, Cl. 23-301.
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Longo, John F.; and Duff, Joseph H., to Ecodyne Corporation. Condensate analyzer. 3,705,477, 12-12-72, Cl. 55-18.000.
Longo, Joseph F., to International Dynetics Corporation. Trash compaction unit. 3,654,855, 4-11-72, Cl. 100-229.
Longoni, Sergio; and Portinari, Antonio, to Industrie Pirelli S.p.A., mesne. Process and apparatus for lining conductive tubes with insulating material. 3,643,727, 2-22-72, Cl. 164-76.
Longoria, Juan, to Dow Chemical Company, The. Paper containing a polylthylenimine-fatty acid epichlorohydrin product. 3,692,092, 9-19-72, Cl. 162-164.000.
Longoria, Juan, III; and Coker, William P., to Dow Chemical Company, The. Short life paper size from modified polyalkyleneimines. 3,635,842, 1-18-72, Cl. 260-2.
Longsderff, Richard W.; and Sheetz, Robert Shirk, to United States of America, Atomic Energy Commission. Multi-converter thermionic energy module. 3,702,408, 11-7-72, Cl. 310-4.000.
Longshaw, William J.; Sieson, Roy C., Jr.; and Ridenour, James, to Pacific Western Extruded Products, Inc. Beaded plastic tubing joint and fabrication. 3,687,167, 8-29-72, Cl. 138-109.000.
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Loo, Madis Valdurovich; Sillaots, Argo Alexandrovich; and Kekhler, Jury-Eduard Khansovich. Apparatus for treating carded fibrous material for forming a web of said material. 3,651,543, 3-28-72, Cl. 19-161.
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Looker, Olin L., to FMC Corporation. Trash blower. 3,687,568, 8-29-72, Cl. 415-99.000.
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Loomis, Charles M. Door frame, sill and facia construction for elevator. 3,686,808, 8-29-72, Cl. 52-211.000.
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Loop, Frederick M., to PPG Industries, Inc. Treatment of electrodeposition bath. 3,663,404, 5-16-72, Cl. 204-181.000.
Loop, Frederick M.; and Bosworth, Frank C., to PPG Industries, Inc. Treatment of an ultrafiltrate derived from an electrodeposition process by reverse osmosis. 3,663,407, 5-16-72, Cl. 204-181.000.
Loop, Wendell Harold, to McCulloch Corporation. Method and apparatus for heating carburetor air and flushing an air filter in a chain saw. 3,678,973, 7-25-72, Cl. 143-32.00r.
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Loos, Herbert; and Kretzschmar, Karl, to Hurth, Carl, Maschinen- und Zahnradfabrik. Toothed tool and device for chipless generation of gears. 3,654,791, 4-11-72, Cl. 72-88.
Loos, Herbert, to Hurth, Carl, Maschinen- und Zahnradfabrik. Toothed tool and device for chipless generation of gears. 3,704,612, 12-5-72, Cl. 72-102.000.
Loos, Horst Rudolf, to Vibro-Meter AG. Eddy current position transducer utilizing a cord whose impedance is more substantially ohmic. 3,688,187, 8-29-72, Cl. 324-40.000.
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Loos, Kurt, to Kabelschlepp Gesellschaft mit beschrankter Haftung. Protective cover for the bed of machine tools. 3,658,113, 4-25-72, Cl. 160-202.
Looschen, Floyd W., to Burroughs Corporation. Failsafe memory system. 3,668,644, 6-6-72, Cl. 340-172.500.
Looschen, Floyd W., to Burroughs Corporation. Electronic keyboard. 3,691,555, 9-12-72, Cl. 340-365.000.
Loose, Guenter H., to Eastman Kodak Company. Ultrasonic perforating of a sheet of film, paper or the like. 3,683,736, 8-15-72, Cl. 83-16.000.
Loose, Peter William, to Marconi Company Limited, The. Improvements in or relating to television camera clamping arrangements. 3,700,794, 10-24-72, Cl. 178-7.100.
Loose, Winfield Warren, to AMP Incorporated. Retractor seat belt reel having electrical switch for automotive safety circuit. 3,632,059, 1-4-72, Cl. 242-107.4.
Loose, Winfield Warren, to AMP Incorporated. Electrical switch for use on a seat belt reel with diameter sensing and switch actuator means. 3,694,593, 9-26-72, Cl. 200-52.00r.
Loosme, Oskar, to Bell Telephone Laboratories, Incorporated. Connector for electrically interconnecting two parallel surfaces. 3,638,163, 1-25-72, Cl. 339-17.
Lootens, William F.; and Flowers, Joseph K., to General Electric Company. Semiconductor device with low impedance bond. 3,706,915, 12-19-72, Cl. 317-234.00r.
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Lopata, Herman, to Automatic Toll Systems, Inc. Coded security vault. 3,665,160, 5-23-72, Cl. 235-61.1.
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Lopez, Arnelson N. Nursing bottle formed by a housing and a rubber nipple. 3,682,344, 8-8-72, Cl. 215-11.00r.
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Lopez, John A., to Shell Oil Company. Traffic paint compositions. 3,706,684, 12-19-72, Cl. 260-18.0ep.
Lopez, Joseph G. Game apparatus and alphabet teaching device. 3,663,017, 5-16-72, Cl. 273-1.00r.
Lopez, Maria del Carmen Murga. Sealing stopper. 3,666,136, 5-30-72, Cl. 220-39.00r.
Lopez, Oscar; and Valdes, Juan Cesar. Amalgam carrier and dispenser with preload capsule. 3,638,314, 2-1-72, Cl. 32-60.
Lopez, Pedro R. Adjustable shoe shine mount. 3,641,617, 2-15-72, Cl. 15-267.
Lopez, Walfrido R. Anti-theft device for automotive vehicles and other apparatus. 3,653,457, 4-4-72, Cl. 180-114.
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Lorcher, Harry; and Spreitzer, Franz, to Fichtel & Sachs A.G. Shock absorber assembly and method of making the same. 3,655,017, 4-11-72, Cl. 188-321.
Lorcher, Otfried; and Steffen, Robert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Cellular plastics of polymers of perfluorolefins and process for making them. 3,692,710, 9-19-72, Cl. 260-2.50l.
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Lord, Peter Herent. Rectal cone for use in postoperative treatment. 3,675,642, 7-11-72, Cl. 128-1.000.
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Lorenz, Walter; Fest, Christa; Hammann, Ingeborg; Federmann, Manfred; Flucke, Winfried; and Stendel, Wilhelm, to Farbenfabriken Bayer Aktiengesellschaft. Phosphonic acid ester containing pesticidal composition and methods of combating pests. 3,689,648, 9-572, Cl. 424-210.000.

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Lorin, Guy, to Hooker Chemical Corporation. Metal phosphatizing composition and process. 3,645,797, 2-29-72, Cl. 148-6.15.

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Los, Marinus, to American Cyanamid Company. Substituted naphthofuran compounds. 3,647,821, 3-7-72, Cl. 260-340.9.

Los, Marinus, to American Cyanamid Company. Trans-octahydro-4a-lower alkyl-5-(t-butoxy or benzyloxy-2-oxo-1-(4-substituted-3-oxobutyl)-1-naphthaldehydes. 3,660,490, 5-2-72, Cl. 260-586.000.

Los, Marinus, to American Cyanamid Company. Substituted D-homoestra tetraene and pentaene compounds. 3,671,573, 6-20-72, Cl. 260-488.0cd.

Los, Marinus, to American Cyanamid Company. 3-Methoxy-8β-methylestra 1,3,5(10),9(11)-tetraene-17β-carboxylic acid lower alkyl ester and intermediates in the preparation thereof. 3,681,407, 8-1-72, Cl. 260-397.100.

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Lottridge, Neil M.; and Momsen, Marc F., to General Motors Corporation. Sliding caliper disc brake and guide and retention means therefor. 3,648,807, 3-14-72, Cl. 188-73.3.

Loturco, Joseph A. Toroidal coil winding machine. 3,669,365, 6-13-72, Cl. 242-4.00b.

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Loubert, Donald W.; and Meyer, James A., to Pillsbury Company, The. Method of consistently reducing moisture loss in heating frozen foods with microwave energy and apparatus therefor. 3,694,608, 9-26-72, Cl. 219-10.550.

Loubeyre, Rene. Snow-goggles. 3,663,959, 5-23-72, Cl. 2-14.

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Loucks, Wynn R. Snap-on bracket. 3,669,394, 6-13-72, Cl. 248-221.000.

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Loudas, Basil L.; and Vogel, Herward A., to Minnesota Mining and Manufacturing Company. Polyfluoro-cyanurate polymers and process of preparation. 3,681,292, 8-1-72, Cl. 260-77.5nc.

Louden, William G. Cigar structure. 3,653,390, 4-4-72, Cl. 131-11.

Loudenslager, Ray D., to Automotive Exhaust Control Corporation. Auxiliary air fuel mixture control system for reducing automotive exhaust emissions. 3,669,420, 6-13-72, Cl. 261-23.00a.

Louderback, Allan L., to Baxter Laboratories, Inc. Liquid blood serum control standard. 3,682,835, 8-8-72, Cl. 252-408.000.

Louderback, Allan L.; and Youhne, Young, to Baxter Laboratories, Inc. Calibrating fluid for automated hematology instruments. 3,705,110, 12-5-72, Cl. 252-408.000.

Louderback, Anthony W.; and Zook, Morris A., Jr. Method of applying a multilayer antireflection coating to a substrate. 3,695,910, 10-3-72, Cl. 117-33.300.

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Loughran, Anthony. Baling press bale releasing means. 3,687,068, 8-29-72, Cl. 100-255.000.

Loughran, Eugene F., Jr., to North American Philips Corporation. Rotary actuator and indicator. 3,671,900, 6-20-72, Cl. 335-272.

Loughridge, Frederick A.; Matheson, Wilfrid G.; and Passmore, Edmund M., to Sylvania Electric Products, Inc. Seal arrangements for lamps. 3,676,730, 7-11-72, Cl. 313-318.000.

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Louie, Lawrence D. Tongue scraper. 3,683,924, 8-15-72, Cl. 128-4.000.

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Louis, Rodney Brian, to African Explosives and Chemical Industries Limited. Gas sampling. 3,672,225, 6-27-72, Cl. 73-421.50r.

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Loukes, David G., to Pilkington Brothers Limited. Method of reshaping and ion-exchanging glass. 3,639,114, 2-1-72, Cl. 65-30.

Loukes, David Gordon: *See—*
Edwards, Alan; and Loukes, David Gordon, 3,681,042.

Loukes, David Gordon; and Maltman, William Ramsey, to Pilkington Brothers Limited. Method and apparatus for producing glass having a metallic surface finish. 3,632,322, 1-4-72, Cl. 65-30.

Loukes, David Gordon; and Edwards, Alan, to Pilkington Brothers, Limited. Coating of glass in float glass method and apparatus. 3,656,926, 4-18-72, Cl. 65-60.

Loukes, David Gordon; and Edwards, Alan, to Pilkington Brothers Limited. Float glass manufacture apparatus. 3,658,504, 4-25-72, Cl. 65-182.

Loukes, David Gordon; and Edwards, Alan, to Pilkington Brothers Limited. Production of float glass having an oxidized metal-modified surface. 3,674,453, 7-4-72, Cl. 65-30.000.

Loukes, David Gordon; and Lawrenson, Jack, to Pilkington Brothers Limited. Treatment of hollow glass articles. 3,682,611, 8-8-72, Cl. 65-182.000.

Louks, Robert A. Continuous-flow dryer for granular material. 3,634,949, 1-18-72, Cl. 34-174.

Louks, Robert A. Process and apparatus for spreading granular material. 3,698,574, 10-17-72, Cl. 214-17.0cb.

Loup, Jean-Pierre Olivier; Gutknecht, Jacques Emile; and Anthony, Anne-Marie, nee Barbier, to Agence Nationale de Valorisation de la Recherche (ANVAR). Method for measurement of partial pressures of a gaseous substance using a metallic compound of the gaseus substance. 3,676,771, 7-11-72, Cl. 324-33.000.

Loupere, Andre: *See—*
Costa, Charles; Loupere, Andre; Monsel, Philippe; and Schmitt, Bertrand, 3,679,272.

Lourandos, Marilyn Z.: *See—*
Tobey, Stephen W.; and Lourandos, Marilyn Z., 3,694,513.

Lourie, Janice Richmond; and Woo, Lin S., to International Business Machines Corporation. Processing of multilayer weave design data. 3,634,827, 1-11-72, Cl. 340-172.5.

Lourie, Janice Richmond. International Business Machines Corporation Method of identifying connected regions in a large segmented pattern. 3,644,935, 2-22-72, Cl. 444-1.

Lourie Visual Etudes, Inc.: *See—*
Hanson, Harold E., 3,695,608.

Louth, Howard P.: *See—*
Kicks, John C.; and Louth, Howard P., 3,706,953.

Louth, Kenneth, to RCA Corporation. Video tape recorder synchronizing system. 3,654,387, 4-4-72, Cl. 178-6.6.

Louth, Kenneth, to RCA Corporation. Device to keep a capstan in phase when switching modes. 3,654,398, 4-4-72, Cl. 179-100.2.

Louthan, John D., to LTV Aerospace Corporation. Fire control system. 3,694,095, 9-26-72, Cl. 356-255.000.

Louthan, Rector P., to Phillips Petroleum Company. Plasticized sulfur compositions. 3,674,525, 7-4-72, Cl. 106-287.0sc.

Louthan, Rector P., to Phillips Petroleum Company. Plasticized sulfur compositions. 3,676,166, 7-11-72, Cl. 106-241.000.

Louton, James C., Jr., to General Motors Corporation. Closure mounting means. 3,649,067, 3-14-72, Cl. 296-50.

Louvar, James J.: *See—*
Sparks, Allen K.; and Louvar, James J., 3,694,374.

Louvar, James J., to Universal Oil Products Company. Process for preparing acyloxycycloalkenes. 3,632,633, 1-4-72, Cl. 260-497.

Louvel, Guy, to Compagnie Industrielle des Telecommunications. Housing for transistors having unsoldered connections for operating at very high frequencies. 3,673,470, 6-27-72, Cl. 317-234.00r.

Louvel, Guy, to Compagnie Industrielle des Telecommunications. Slotted microstrip line for impedance matching having two stops to prevent ohmic contact between the movable reactive element and the center strip. 3,697,902, 10-10-72, Cl. 333-84.00m.

Louwerens, Bernarus: *See—*
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Loux, Harvey M.: *See—*
Fuchs, Julius J.; and Loux, Harvey M., 3,694,431.

Loux, Harvey M., to Du Pont de Nemours, E. I., and Company. Herbicidal 3-(substituted ureido)-crotonamides and crotonates. 3,664,823, 5-23-72, Cl. 71-111.

Louzos, Demetrios V.; and Mellors, Geoffrey W., to Union Carbide Corporation. Cathode material for solid state batteries. 3,655,453, 4-11-72, Cl. 136-121.

Louzos, Demetrios V., to Union Carbide Corporation. Rechargeable alkaline galvanic cell and electrolyte therefor. 3,672,996, 6-27-72, Cl. 136-6.000.

Louzos, Demetrios V., to Union Carbide Corporation. Nickel fibers useful for galvanic cell electrodes. 3,684,480, 8-15-72, Cl. 75-.50r.

Louzos, Demetrios V., to Union Carbide Corporation. Lead fibers useful for galvanic cell electrodes. 3,690,866, 9-12-72, Cl. 75-.500.

Louzos, Demetrios Vasilios, to Union Carbide Corporation. Solid state electrochemical cells. 3,653,968, 4-4-72, Cl. 136-83.

Louzos, Dometrios V., to Union Carbide Corporation. Maganese fibers useful for galvanic cell electrodes. 3,685,983, 8-22-72, Cl. 175-.50r.

Lov, William L.; and Blood, Ned, to ILG Industries Inc. Method and apparatus for forming centrifugal fan housings. 3,653,116, 4-4-72, Cl. 29-243.52.

Lovatt, William John, to Acme Marls Limited. Supporting structures for use in firing pottery. 3,681,817, 8-8-72, Cl. 25-153.000.

Lovdahl, Robert A.: *See—*
Thomas, Vitas T.; and Lovdahl, Robert A., 3,687,016.

Love, Addison N., to Brown, Harold, Company. Timing valves and fluid controllers. 3,653,393, 4-4-72, Cl. 137-102.

Love, Charles E. Covering structure for vehicles. 3,667,802, 6-6-72, Cl. 296-98.000.

Love, Dennis Anthony; Neal, David Patrick John; and Pidgeon, Eric, to Beecham Group Limited. Process for preparing α-carboxylbenzylpencillin. 3,641,001, 2-8-72, Cl. 260-239.1.

Love, Doris, to Texaco Inc. Calcium alkylphenolate manufacture. 3,657,124, 4-18-72, Cl. 252-42.7.

Love, Frank E.: *See—*
Wheeler, Roger M.; and Love, Frank E., 3,661,738.

Love, Frank E., to National Lead Company. Continuous process and apparatus for electrolytic production of sodium metal from sodium salts. 3,640,801, 2-8-72, Cl. 204-68.

Love, Gordon, to Silverson Machines Limited. Mixing devices. 3,632,227, 1-4-72, Cl. 415-211.
Love, Gordon D. Mixing apparatus. 3,669,414, 6-13-72, Cl. 259-8.000.
Love, J. E., Company: *See*—
Gradwohl, Donald R.; and Neal, Archie E., 3,703,060.
Love, James H.: *See*—
Tegge, Bruce R.; Teiser, William L.; Love, James H.; and Rosenbaum, Barry M., 3,642,731.
Love, James H., to Esso Research and Engineering Company. Novel process wherein monomers and diluent solvent are recovered from flashed effluent from the polymerization of ethylene, a C_3-C_{10} higher alpha olefin, and optionally a third monomer. 3,652,515, 3-28-72, Cl. 260-80.78.
Love, Kenneth E., to Varian Associates. Cavity resonator having means for reducing leakage of R.F. energy at a covered access point. 3,662,139, 5-9-72, Cl. 219-10.55.
Love, Norman Edward, to British Hovercraft Corporation Limited. Transporters. 3,662,853, 5-16-72, Cl. 180-121.000.
Love, Robert G.: *See*—
Lorenzino, Paul; and Love, Robert G., 3,691,841.
Love, Wesley. Thermomagnetic device. 3,664,881, 5-23-72, Cl. 136-205.000.
Love, Winston A. Starting controller for electric motor. 3,657,619, 4-18-72, Cl. 318-221.
Loveday, Harry W.; and Whittaker, Jack D., to Greenbank Engineering Company Limited. Machines for drying sheets of paper or like material. 3,685,167, 8-22-72, Cl. 34-66.000.
Loveday, Thomas E., to Eastman Kodak Company. Cooled ultrasonic transducer. 3,694,675, 9-26-72, Cl. 310-8.900.
Lovegren, Norman V.; Gray, Marie S.; and Feuge, Reuben O., to United States of America, Agriculture. Extended-surface dispersible hydrogenation catalyst and process for producing same. 3,663,479, 5-16-72, Cl. 252-429.
Lovejoy, Inc.: *See*—
Patel, Raman A., 3,636,729.
Lovelace, Byron K.: *See*—
Waters, Warren P.; and Lovelace, Byron K., 3,651,384.
Lovelace, Joseph B.: *See*—
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Lovelace, Ralph E., to GTE Sylvania Incorporated. Video signalling processing apparatus. 3,639,780, 2-1-72, Cl. 307-235.
Lovelace, Ralph E., to GTE Sylvania Incorporated. Video signalling processing apparatus. 3,639,786, 2-1-72, Cl. 307-303.
Lovelace, Richard S., to National Bulk Carriers, Inc. Draghead with concentric hollow cylinders having alignable parts. 3,657,829, 4-25-72, Cl. 37-63.
Loveland Industries, Inc.: *See*—
Mommer, Richard Paul, 3,682,653.
Loveland, Malcolm W., to Atlas Pacific Engineering Company. Means for peeling pineapples. 3,638,696, 2-1-72, Cl. 146-6.
Loveland, Malcolm W., to Atlas Pacific Engineering Company. Orifice structure having two different flow rates. 3,702,144, 11-7-72, Cl. 138-44.000.
Loveland, Malcolm W.; and Singleton, Robert J., to Atlas Pacific Engineering Company. Apparatus for feeding conveyor from bulk supply. 3,704,041, 11-28-72, Cl. 302-14.000.
Loveland, Winton: *See*—
Warshaw, Saul; Eisenberg, Arnold J.; and Loveland, Winton, 3,683,246.
Loveless, Frederick C.; and Hartz, Roy E., to Uniroyal, Inc. Process for coupling living lithiopolymers. 3,668,279, 6-6-72, Cl. 260-879.
Loveless, Frederick C.; and Miller, Don H., to Uniroyal, Inc. Catalyst and method for making EPDM having improved processability. 3,706,718, 12-19-72, Cl. 260-80.780.
Loveless, Stanley M., to General Gas Light Company. Four-way valve with blocked center. 3,661,182, 5-9-72, Cl. 137-625.48.
Loveless, Stanley M., to General Gas Light Company. Snap operator for pressure fluid valve. 3,665,813, 5-30-72, Cl. 92-30.
Loveley, Joseph D., to American Standard, Inc. Air conditioner closet door construction. 3,653,431, 4-4-72, Cl. 165-53.
Lovell, Calvin; and Sause, Henry William, to Searle, G. D., & Co. Quaternary phenothiazine sulfamate. 3,637,679, 1-25-72, Cl. 260-243.
Lovell, Clarence A.: *See*—
Fleming, James Evans; Lovell, Clarence A.; and Bandle, James M., 3,665,468.
Muroga, Ko; Okuda, Jiro; Shimasaki, Nobuhiko; Terashima, Toshio; Maruyama, Yasushi; Kaneyasu, Hiroshi; Sohma, Kikuya; and Lovell, Clarence A., 3,649,767.
Lovell, James Byron: *See*—
Magee, Richard Joseph; and Lovell, James Byron, 3,644,621.
Lovell, John A., to Goodyear Tire & Rubber Company, The. Tire having polyurethane laminate thereon. 3,648,748, 3-14-72, Cl. 152-353.
Lovell, Keith Victor: *See*—
Fydelor, Peter John; and Lovell, Keith Victor, 3,687,832.
Lovell, Kenneth O., to Ralston Purina Company. Method of preparing a poultry product. 3,666,489, 5-30-72, Cl. 99-107.
Lovell, Thomas W.: *See*—
Bidwell, Dennis P.; Davies, Douglas R.; Hanley, John T., Jr.; Hart, William K.; Henderson, Thomas A.; Lovell, Thomas W.; and Fogg, Lloyd C., 3,665,447.
Lovelock, James E.: *See*—
United States of America, National Aeronautics and Space Administration, 3,662,604.
Lovelock, James E.; Davies, Albert J.; and Ferris, Frank R., to Shell Oil Company. Method and apparatus for linearly measuring electron capture with an electron capture detector. 3,634,754, 1-11-72, Cl. 324-33.
Lovelock, James E., to California Institute of Technology. Gas chromatograph interfacing system and method. 3,638,396, 2-1-72, Cl. 55-16.
Lovelock, James E., to Pye Limited. Method and apparatus for controlling the flow of gases. 3,677,275, 7-18-72, Cl. 137-13.000.
Lovelock, James E., to California Institute of Technology. Method and apparatus for analyzing gaseous chromatographic effluents. 3,690,835, 9-12-72, Cl. 23-232.00c.
Lovelock, James E., to California Institute of Technology. Vapor phase detectors. 3,701,632, 10-31-72, Cl. 23-232.00e.
Lovely, John D., to Electrohome Limited. Networks for setting up and adjusting the colour temperature of the picture reproduced by the picture tube of a colour television receiver. 3,705,259, 12-5-72, Cl. 178-5.40r.
Lovely, Walter G.: *See*—
Hoyt, Charles T.; Haun, John W.; Hensel, Dwight L.; Hansen, Clarence M.; Lovely, Walter G.; and Bruhn, Hjalmar D., 3,671,077.
Lovens Kemiske Fabrik Produktionsaktieselskab: *See*—
Feit, Peter Werner, 3,634,583.
Frederiksen, Erling Knud; and Godtfredsen, Wagn Ole, 3,660,575.
Frederiksen, Erling Knud; and Godtfredsen, Wagn Ole, 3,697,507.
Frey, Hans-Hasso; and Liisberg, Sven, 3,674,787.
Godtfredsen, Wagn Ole; and Bretting, Claus Aage Svensgaard, 3,634,467.
Godtfredsen, Wagn Ole, 3,655,658.
Tvaermose Nielsen; Frey, Hans-Hasso; and Feit, Peter Werner, 3,634,410.
Loverdos-Stelakatos, Constantine. System absorbing shocks on vessel and improving its motion. 3,680,516, 8-1-72, Cl. 114-67.00r.
Loveshaw Corporation: *See*—
Warshaw, Saul; Eisenberg, Arnold J.; and Loveland, Winton, 3,683,246.
Lovett, Donald S., to McGraw-Edison Company. Weld support for welding apparatus. 3,673,373, 6-27-72, Cl. 219-74.
Lovett, Gordon H.; and Rambin, Ronald E., to Monsanto Company. Purification of acrylonitrile by absorption, plural distillation and recycle of bottoms stream to the absorber. 3,636,067, 1-18-72, Cl. 260-465.3.
Lovett, Gordon H.; and Rambin, Ronald E., to Monsanto Company. Purification of acrylonitrile by quenching, adsorption, distillation and recycle to the absorber. 3,636,068, 1-18-72, Cl. 260-465.3.
Lovett, John R.: *See*—
Tyler, William E., III; and Lovett, John R., 3,687,954.
Lovett, John R. Replaceable roller surface for conveyor and application techniques therefor. 3,705,455, 12-12-72, Cl. 29-234.000.
Lovett, Maxwell J. Sawhorse with retractable legs. 3,700,072, 10-24-72, Cl. 182-155.
Lovgren, Jeffrey L.: *See*—
Baumgartner, Richard J.; Lovgren, Jeffrey L.; and McCullough, John W., 3,662,341.
Lovgren, Peter: *See*—
Zaki, Wahib Nassif; Coulomb, Jean Marie Louis; and Lovgren, Peter, 3,655,568.
Lovich, John W.: *See*—
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Loving, Frank A., Jr.: *See*—
Andrews, Adlay B.; Coursen, David L.; and Loving, Frank A., Jr., 3,656,585.
Lovingham, Joseph J.; and Kircher, Hartmann J., III, to Thiokol Chemical Corporation. Rocket engine with thrust direction modifying devices. 3,636,710, 1-25-72, Cl. 60-231.
Lovitz, David D., to Sternco Industries, Inc. Unitary filter and pump for home aquariums. 3,635,344, 1-18-72, Cl. 210-169.
Lovitz, David D., to Sternco Industries, Inc. Shrimp hatchery. 3,678,899, 7-25-72, Cl. 119-2.000.
Lovold, Kjell, to Norsk Spraengstofindustri A/S. Process for the preparation of black powder. 3,660,546, 5-2-72, Cl. 264-3.
Low, David N., to Du Pont de Nemours, E. I., and Company. Scrubbing of gases containing $TiCl_4$. 3,690,041, 9-12-72, Cl. 55-71.000.
Low, George M.; Derr, Lloyd J.; and Tobias, Robert A. Thermal motor. 3,663,839, 5-16-72, Cl. 310-4.000.
Low, John, III: *See*—
Archer, Bill; and Low, John, III, 3,646,719.
Lowder, Dale E.: *See*—
Nise, Wilfred C.; and Lowder, Dale E., 3,678,524.

Lowdermilk, Marvin J.: *See—*
Boron, Joseph; and Lowdermilk, Marvin J., 3,685,359.
Lowe & Fletcher Limited: *See—*
Watkins, John; and James, Reginald, 3,686,906.
Lowe, Charles B., to Universal Oil Products Company. Leveling valve. 3,661,176, 5-9-72, Cl. 137-560.
Lowe, Charles B., to Universal Oil Products Company. Vehicle seats. 3,669,400, 6-13-72, Cl. 248-400.000.
Lowe, Derek: *See—*
Gaskell, Philip Hedley; and Lowe, Derek, 3,652,863.
Lowe, Desmond, to National Research Development Corporation. Device for venting gases from a tank. 3,680,585, 8-1-72, Cl. 137-493.000.
Lowe, Donald F.: *See—*
Spedden, Henry R.; Apps, John A.; and Lowe, Donald F., 3,669,651.
Lowe, E. S., Company, Inc.: *See—*
Siegel, Herman M., 3,699,660.
Lowe, Edison; and Durkee, Everett L., to United States of America, Agriculture. Concentrating liquid foods. 3,634,103, 1-11-72, Cl. 99-199.
Lowe, James B.: *See—*
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B., 3,658,981.
Lowe, James U., Jr.: *See—*
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Lowe, Leonard F., to Patterson-Kelley Co., Inc., The. Water heating system. 3,672,444, 6-27-72, Cl. 165-39.000.
Lowe, Lyall. Car top camping shelter. 3,655,077, 4-11-72, Cl. 224-42.1.
Lowe, Peter R., to Honeywell Inc. Cathode ray tube display apparatus with extended tube life. 3,700,955, 10-24-72, Cl. 315-20.000.
Lowe, Peter Robert, to Honeywell Inc. Stabilized monostable delay multivibrator or one-shot apparatus. 3,646,370, 2-29-72, Cl. 307-273.
Lowe, Richard L., to Aluminum Company of America. Alumina feeder. 3,681,229, 8-1-72, Cl. 204-243.00r.
Lowe, Walter Max; and Squirrell, Frederick, to Thermo-Technical Development Limited. Gas tight isolators and valves. 3,698,429, 10-17-72, Cl. 137-601.000.
Lowe, Warren, to Chevron Research Company. Sulfonate salts of alkenyl succinimides. 3,634,241, 1-11-72, Cl. 252-33.
Lowe, Warren, to Chevron Research Company. Alkali metal succinamate compositions for lubricating oils. 3,666,662, 5-30-72, Cl. 252-33.6.
Lowe, Warren, to Chevron Research Company. Amines as antiwear additives in marine cylinder oils. 3,697,426, 10-10-72, Cl. 252-42.700.
Lowe, William L.: *See—*
Sterner, Russell L.; and Lowe, William L., 3,641,551.
Lowell Corporation: *See—*
Thomasian, Harvey A., 3,651,718.
Lowell, Edgar L.; and Lipsky, Aaron H., to Tracy, John, Clinic. Teaching device. 3,648,388, 3-14-72, Cl. 35-9.
Lowell, Lawrence Prentiss, Jr.: *See—*
Didchenko, Rostislav; and Lowell, Lawrence Prentiss, Jr., 3,661,503.
Lowell Molding Corporation: *See—*
Forma, Anthony P., 3,651,527.
Lowell, Philip S.: *See—*
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Lowen, Irving B.: *See—*
Cantor, Clarence; and Lowen, Irving B., 3,637,312.
Lowen, Michael David; and Mountford, Alan Reginald, to Laing, John, Research & Development Limited. Laying of concrete kerbs, haunches and the like. 3,636,833, 1-25-72, Cl. 94-46.
Lowenfeld, Rudolf: *See—*
Hertel, Hasso; Gehre, Kurt; Lowenfeld, Rudolf; and Kosubek, Uwe, 3,697,216.
Lowenfeld, Rudolf; and Kosubek, Uwe, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for dyeing textile material of mixtures of polyester and cellulose fibres. 3,642,424, 2-15-72, Cl. 8-21.
Lowenfeld, Rudolf; and Kaiser, Hans, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the dyeing of textile materials made from mixtures of polyester and cellulosic fibres. 3,679,350, 7-25-72, Cl. 8-21.00c.
Lowenstein Dyes & Cosmetics, Inc.: *See—*
Tucker, Harold H.; and Schwartz, Irwin, 3,632,290.
Lowenstein, M., & Sons, Inc.: *See—*
Hardwicke, James E.; Scheffler, Bernard; and Weisz, Herman S., 3,647,734.
Hill, William P., 3,648,735.
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Lowenthal, Serge: *See—*
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Lower, John H.; and Lagus, Peter, to Deneb Products Engineering. Billiard cue and cue tip assembly. 3,695,611, 10-3-72, Cl. 273-70.000.
Lowery, Archie J., Sr. Marine towing shackle. 3,656,293, 4-18-72, Cl. 59-86.
Lowery, George M. Method for controlling moisture in flour. 3,684,526, 8-15-72, Cl. 99-93.000.
Lowery, James D., Jr.: *See—*
Biloxi, Joe C. May; and Lowery, James D., Jr., 3,682,337.
Lowery, James R. Lawn mower and edger mechanism. 3,693,334, 9-26-72, Cl. 56-16.900.
Lowery, Mae H. Support stand. 3,638,814, 2-1-72, Cl. 211-177.
Lowery, Ronald M.; and Summers, Daniel J., Jr., to Computest Corporation. Distortion analysis system and method. 3,700,808, 10-24-72, Cl. 178-69.00a.
Lowery, William E., to Control Building Systems, Inc. External corner member. 3,691,711, 9-19-72, Cl. 52-282.000.
Lowi, Alvin, Jr. Portable still with concentric vaporizing reservoir and collection chambers. 3,635,799, 1-18-72, Cl. 202-83.
Lowicki, Norbert, to Grillo-Werke Aktiengesellschaft. Process and device for the distillative purification of metals, especially of zinc. 3,637,367, 1-25-72, Cl. 75-63.
Lowicki, Norbert; and Teggers, Hans, to Grillo-Werke Aktiengesellschaft. Process for the directive removal of SO_3 from waste gas. 3,669,617, 6-13-72, Cl. 23-25.000.
Lowman, Malden C., Jr., to Environmental Quality Engineering, Inc. Process for reducing detonation. 3,648,676, 3-14-72, Cl. 123-191.
Lown, Milton, to Northeast Shoe Company. Construction for shoe, slipper or the like. 3,705,463, 12-12-72, Cl. 36-25.000.
Lowndes Engineering Co., Inc.: *See—*
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Lownes, Irvin S., Jr.: *See—*
McPherson, Frank H.; Lownes, Irvin S., Jr.; and Richardson, Thomas L., 3,706,074.
Lowrance Electronics Manufacturing Corporation: *See—*
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Lowrance, Thomas F. Apparatus for inserting sticks in articles. 3,691,608, 9-19-72, Cl. 29-211.00d.
Lowrey, Wiley W. Fuel heating means. 3,658,041, 4-25-72, Cl. 123-122.00e.
Lowry, Alan B.; Mathus, Gregory; and Staciokas, Leon, to Data Packaging Corporation and Digital Information Devices, Inc. Tape cartridge mechanism for computer. 3,677,497, 7-18-72, Cl. 242-199.000.
Lowry, Alan B.; Mathus, Gregory; Morello, Herbert; and Miller, Robert J., 50% to Data Packaging Corporation and 50% to Digital Information Devices, Inc. Tape handling mechanism for computer. 3,697,014, 10-10-72, Cl. 242-182.000.
Lowry, Jerald: *See—*
Lempert, Joseph; Lowry, Jerald; and Bonner, Frederick M., 3,634,645.
Lowry, Randy W. Removable wear plate for fifth wheel. 3,704,924, 12-5-72, Cl. 308-136.000.
Lowry, Ray B.: *See—*
Crippa, Eugene R.; and Lowry, Ray B., 3,697,969.
Lowry, Robert Arthur, Jr.; and Smith, Billy Eual, to Motorola, Inc. Method of forming ohmic contact for semiconducting devices. 3,702,787, 11-14-72, Cl. 117-213.000.
Lowry, Terrell Nicholson, to Bell Telephone Laboratories, Incorporated. Piston mercury switch. 3,673,524, 6-27-72, Cl. 335-52.000.
Lox Equipment Company: *See—*
Eifel, Paul J.; and Cavanna, Cesar E., 3,696,959.
Loxley, Ted A.; Webb, John M.; and Barber, Walter G., to Mellen, Edward J., Jr. Wafer boat. 3,640,398, 2-8-72, Cl. 211-41.
Loxley, Ted A.; Webb, John M.; and Barber, Walter G., to Mellen, Edward J., Jr. Method of redrawing quartz glass rods. 3,652,248, 3-28-72, Cl. 65-108.
Loy, Alfred; Paitchell, Harold; and Wysocki, Kazmier, said Loy and said Paitchell assors. to Wysocki, Kazmier. Sorter for aerosol valves and other closures having attached tubes or other similar configurations. 3,684,129, 8-15-72, Cl. 221-167.000.
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Rohrig, Herbert; and Loy, Fritz, 3,694,279.
Loy, George W., to Scio Cabinet Company. Plastic laminating apparatus. 3,690,995, 9-12-72, Cl. 156-478.000.
Loy, Henry Albert. Silt dredging apparatus drag scraper for dredging silt. 3,679,004, 7-25-72, Cl. 172-26.500.
Loy, Myrna: *See—*
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Loyd, Calvin D.: *See—*
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Loyd, Calvin D., to Caterpillar Tractor Company. Split retainer for check valve springs. 3,693,235, 9-26-72, Cl. 29-412.000.
Loyd, Calvin D., to Caterpillar Tractor Company. Method of friction welding. 3,694,896, 10-3-72, Cl. 29-420.300.
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Lozio, Battista. Device for fixing labels to a supporting body. 3,652,004, 3-28-72, Cl. 227-67.
Lozo, Frederick M., III: *See—*
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Lubin, Edward H. Building block and wall construction with grout-receiving lateral cells. 3,650,079, 3-21-72, Cl. 52-316.
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Ludwig, Gary R., to Cornell Aeronautical Laboratory, Inc. Centrifugal rotating particle sizing apparatus. 3,681,973, 8-8-72, Cl. 73-28.000.
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Ludwig, Howard C., to Westinghouse Electric Corporation. Contact structures for vacuum-type circuit breakers. 3,683,139, 8-8-72, Cl. 200-144.00b.
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Ludwig, Lawrence P.; and Strom, Thomas N., to United States of America, National Aeronautics and Space Administration. Spiral groove seal. 3,675,935, 7-11-72, Cl. 277-27.000.
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Lui, Andrew Tze-Chiu, to Du Pont de Nemours, E. I., and Company. Reducing catalyst precipitation during polymer isolation. 3,658,774, 4-25-72, Cl. 260-80.78.
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Lulay, Arthur, to Du Pont de Nemours, E. I., and Company. Process for temporarily reducing the crimp index in bicomponent acrylic fibers. 3,663,676, 5-16-72, Cl. 264-168.

Lulay, John R.; Marusarz, Bruno J.; and Mateja, Edward J., to American Gage & Machine Company. Constant input energy absorbing apparatus. 3,705,721, 12-12-72, Cl. 272-73.000.

Lum, Andrew F.; and Tannenbaum, Stanley, to United States of America, Navy, mesne. Low freezing hydrazine based fuels. 3,658,609, 4-25-72, Cl. 149-36.

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Lumalampan Aktiebolag: *See—*
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Lumb, Edwin T. Variable ratio transmission. 3,699,826, 10-24-72, Cl. 74-752.00e.

Lumb, Melvyn; Macey, Peter Edward; Wright, Richard Donald; and Petchell, Roy Kenneth, to Boots Pure Drug Company Limited. Fermentation processes and apparatus. 3,705,841, 12-12-72, Cl. 195-80.00r.

Lumb, William V.; and Brasmer, Timothy H., to Colorado State University Research Foundation. Method of applying vertebral appliance. 3,648,691, 3-14-72, Cl. 128-92.

Lumbard, Fredrick W., to Stevens, Milton J., mesne. Combined fish-hook keeper and winding check. 3,665,635, 5-30-72, Cl. 43-25.200.

Lumen, Karl Lennart Gosta: *See—*
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Lumley, Robert Miller; and Tarassov, Victor John, to Western Electric Company, Incorporated. Method for detecting the amount of material removed by a laser. 3,700,850, 10-24-72, Cl. 219-121.0lm.

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Lummus, James L.; and Anderson, Duane B., to Amoco Production Company. Calcium polyacrylate composition and method for treating calcium salt contaminated low-solids drilling fluids. 3,649,547, 3-14-72, Cl. 252-181.

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Lund, Alvin R.; and Kaufman, Jack, to Markstone Manufacturing Company. Recessed lighting fixture housing. 3,675,807, 7-11-72, Cl. 220-3.940.

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Lund, Carl H.; Hockin, John; and Woulds, Michael J., to Martin-Marietta Corporation. Casting process for nickel base alloys. 3,677,331, 7-18-72, Cl. 164-122.000.

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Lund, Clifford C. Combination hitch bumper and spare tire carrier. 3,698,609, 10-17-72, Cl. 224-42.050.

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Lund, Richard B.; Vitrone, John; and Sereno, John F., to Allied Chemical Corporation. Dihalohydrins. 3,634,523, 1-11-72, Cl. 260-618.

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Lundberg, Robert Dean; Koleske, Joseph Victor; and Walter, Earl Richard, to Union Carbide Corporation. Vulcanized elastomeric blends containing a cyclic ester polymer. 3,637,544, 1-25-72, Cl. 260-3.
Lundberg, Robert Dean; Koleske, Joseph Victor; Pollart, Dale Flavian; and Smarook, Walter Henry, to Union Carbide Corporation. Adhesive composition poly(vinyl alkyl ether) and a cyclic ester polymer. 3,641,204, 2-8-72, Cl. 260-874.
Lundberg, Robert Dean; and Del Giudice, Frank Paul, to Union Carbide Corporation. Dispersions of cyclic ester/alkylene oxide copolymers with a polymeric dispersing agent. 3,646,170, 2-29-72, Cl. 260-899.
Lundblom, Robert E. Edger saw guide. 3,688,820, 9-5-72, Cl. 143-160.00g.
Lunde, George G., to Minnesota Mining and Manufacturing Company. Photographic film duplicator. 3,690,766, 9-12-72, Cl. 355-111.000.
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Lundgreen, Michael W., to Collins Radio Company. Voltage variable pulse delay monostable multivibrator. 3,651,345, 3-21-72, Cl. 307-273.
Lundgren, Carl William, Jr., to Bell Telephone Laboratories, Incorporated. Communication satellite system. 3,706,037, 12-12-72, Cl. 325-4.000.
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Lundgren, Gunnar Arne Leonard, to Komprimator AB. Arrangement in installations for collection of garbage and other refuse. 3,648,875, 3-14-72, Cl. 220-1.
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Lundstrom, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Press for hydrostatic extrusion having a composite cylinder externally excused to high pressure. 3,640,111, 2-8-72, Cl. 72-60.
Lundstrom, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Cylinder for ultra high pressure. 3,640,186, 2-8-72, Cl. 92-169.
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Lundstrom, Hans Per Olof; and Liljekvist, Bernt Soren, to Sandvikens Jernverks Aktiebolag. Holder for cutting tip of milling cutter machine. 3,666,321, 5-30-72, Cl. 299-93.000.
Lundstrom, John, to Moisture Register Company. Apparatus for measuring dielectric constant. 3,684,952, 8-15-72, Cl. 324-61.0qs.
Lundstrom, John W., to Moisture Register Company. Scanning impedance measuring system employing a spiral sensing element. 3,704,412, 11-28-72, Cl. 324-61.00r.
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Luner, Stephen J.; and Kolin, Alexander, to University of California, The Regents of the. Isoelectric focusing and fractionation of ampholytes in thermally engendered pH gradients. 3,664,939, 5-23-72, Cl. 204-180.
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Lunn, William H. W., to Lilly, Eli, and Company. Benzimidazo[2,1-b]quinazolin-12(6H) ones. 3,669,969, 6-13-72, Cl. 260-256.40f.
Lunn, William H.W.: *See*—
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Lunsford, Carl Dalton; Welstead, William John, Jr.; and Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 1-(τ-Benzoylakyl)-3-substituted pyrrolidines. 3,651,085, 3-21-72, Cl. 260-326.5.
Lunsford, Carl Dalton; Cale, Albert Duncan, Jr.; and Dawson, Norman David, to Robins, A. H., Company, Incorporated. Spiro condensed aromatic compounds. 3,652,558, 3-28-72, Cl. 260-247.2.
Lunsford, Carl Dalton; and Cale, Albert Duncan, Jr., to Robins, A. H., Company, Incorporated. 1-Hydrocarbon-4-aryl-2,3-dioxo-5-(2-haloethyl) piperazines. 3,696,104, 10-3-72, Cl. 260-268.0dk.
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Lunsford, Leslie E.; Simmons, Clyde A.; and Evans, William L., to Texture-Tex, Incorporated. Process for improving the bulk and resiliency of yarns. 3,699,664, 10-24-72, Cl. 34-16.000.
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Lunts, Lawrence H. C.; and Toon, Paul, to Allen & Hanburys Limited. 4, Hydroxy-α'aminomethyl-m-xylene-α',α³ 3-diols. 3,644,353, 2-22-72, Cl. 260-247.5.
Lunts, Lawrence Henry; and Toon, Paul, to Allen & Hanburys Limited. Phenylaminoethanol derivatives. 3,705,233, 12-5-72, Cl. 424-45.000.
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Luscher, Paul; Hudson, Ben A.; and Childers, Billie W., to PPG Industries, Inc. Method for texturizing yarns. 3,672,947, 6-27-72, Cl. 117-104.000.
Luscombe, Gene A. Machine for comminuting glassware and the like. 3,655,138, 4-11-72, Cl. 241-99.
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Lutchansky, Milton, to Bell Telephone Laboratories, Incorporated. Laser guidance system. 3,698,816, 10-17-72, Cl. 356-152.000.
Lutchenkov, Anatoly Matveevich; Shekhodanov, Mikhail Petrovich; Siyanov, Sergei Alexandrovich; Korovin, Ivan Stepanovich; Kholstova, Nonna Alexandrovna; Kreptseva, Valentina Nikolaevna; and Leskovskaya, Nina Petrovna. Device for aligning prefabricated circit with a photographic plate to make printed circuits. 3,671,125, 6-20-72, Cl. 355-133.000.
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Luthi, Oscar, to Improved Machinery Inc. Rotary drum filter. 3,680,708, 8-1-72, Cl. 210-404.000.
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Luton, James N., Jr., to United States of America, Atomic Energy Commission. Temperature-compensated trimming windings for water-cooled magnet coils. 3,702,453, 11-7-72, Cl. 336-62.000.
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Luttrall, James C. Lock and method of production therefor. 3,681,953, 8-8-72, Cl. 70-141.000.
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Lutz, Michael A.; and Hofmann, Gunter A.G., to Hughes Aircraft Company. Magnetic field control circuit for crossed field switching devices. 3,678,289, 7-18-72, Cl. 307-149.000.
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Lutz, Warren R. Basketball apparatus including a past stabilizing slot. 3,703,291, 11-21-72, Cl. 273-85.00r.
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Lyman, Richard E., to United States Steel Corporation. Flexible starter bar for continuous casting. 3,633,653, 1-11-72, Cl. 164-274.

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Lynch, Frederick W.; and Simons, Gerald F., to Sperry Rand Corporation. Ferroelectric synchronizing and integrating apparatus. 3,651,494, 3-21-72, Cl. 340-173.2.
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Lynn, Charles C. High protein edible products and method of preparing same. 3,697,290, 10-10-72, Cl. 99-86.000.
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Lynnworth, Lawrence C.; and Spencer, Brian J., to Panametrics, Inc. Magnetostrictive ultrasonic transducer. 3,633,424, 1-11-72, Cl. 73-339.
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Lyon, John K., to Price-Pfister Brass Mfg., Co. Single handle high volume tub filler. 3,706,324, 12-19-72, Cl. 137-625.410.
Lyon, John W. Punching and binding machine. 3,699,596, 10-24-72, Cl. 11-1.0ac.
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Lys, Jacques Francois Marie-Joseph. Anti-harmonic transformer. 3,671,901, 6-20-72, Cl. 336-5.000.
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MacDowell, John F.: *See—*
Giffen, James W.; Duke, David A.; Dumbaugh, William H., Jr.; Flannery, James E.; MacDowell, John F.; and Megles, John E., 3,673,049.

MacDowell, John F.; and Rittler, Hermann L., to Corning Glass Works. Silica-free calcium aluminate glass-ceramic articles. 3,635,739, 1-18-72, Cl. 106-39.

MacDuff, Richard; and Stewart, Paul M., to Hercules Incorporated. Oven for heating continuous tubing. 3,677,530, 7-18-72, Cl. 263-3.000.

MacDuff, Richard, to Hercules Incorporated. Trimming flash with ultrasonic tool. 3,704,188, 11-28-72, Cl. 156-73.000.

MacDuff, Stanley I., to Bendix Corporation, The. Power brake system. 3,639,008, 2-1-72, Cl. 303-10.

Mace, Edouard Maurice Eugene Aime: *See—*
Soviche, Gilles Andre Paul; Bues, Jean Pierre; Pavlin, Cyrille Francois; and Mace, Edouard Maurice Eugene Aime, 3,654,945.

Mace, Nute. Flying toy. 3,696,822, 10-10-72, Cl. 46-77.000.

MacEachron, Lendrum A.: *See—*
Teel, Patrick A.; and MacEachron, Lendrum A., 3,707,105.

Macedo, Alfonso O. Reminder clock. 3,678,678, 7-25-72, Cl. 58-16.500.

Macedo, Frank A.; and Perrino, Thomas W., to Leesona Corporation. Winding apparatus. 3,672,584, 6-27-72, Cl. 242-18.00r.

Macek, Warren M., to Sperry Rand Corporation. Optical combiner. 3,642,375, 2-15-72, Cl. 356-114.

Macek, Warren M., to Sperry Rand Corporation. Compensated frequency biasing system for ring laser. 3,649,931, 3-14-72, Cl. 331-94.5.

Macek, Warren M.; and Wang, Chao Chen, to Sperry Rand Corporation. Ring laser having amplitude and phase controlled crossed-beam anti-locking feedback. 3,697,181, 10-10-72, Cl. 356-106.0lr.

Macemon, Herbert J., to Kuhlman Corporation. Fuse holder. 3,699,490, 10-17-72, Cl. 337-202.000.

Macemon, Wallace J., to Martin-Marietta Corporation. Silo lug. 3,684,121, 8-15-72, Cl. 217-95.000.

Macey, Ann M.: *See—*
Macey, James G., 3,647,367.

Macey, Frank G., to GTE Sylvania Incorporated. Information processing system. 3,646,324, 2-29-72, Cl. 235-61.11.

Macey, James G., 50% to Prestininzi, Pete, 50% to Macey, Ruth G. and 50% to Macey, Ann M. Method for making anhydrous magnesium chloride. 3,647,367, 3-7-72, Cl. 23-91.

Macey, Peter Edward: *See—*
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Macey, Ruth G.: *See—*
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MacFarland, Charles H., to Scott & Fetzer Company, The. Indicating means for a belt lifter. 3,646,632, 3-7-72, Cl. 15-339.

MacFarlane, Benedict: *See—*
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MacFarlane, Donald B.; and Rathka, Gary T., to Standard Pressed Steel Co. Prevailing torque fastener. 3,661,194, 5-9-72, Cl. 151-22.

Macfarlane, George, 1/2 to Davis, John Alan. Reflection apparatus for simulating the effect of use by a person of a cosmetic or article. 3,659,928, 5-2-72, Cl. 350-291.

MacFarlane, John James, to National Research Development Corporation. Fluid atomizers. 3,638,859, 2-1-72, Cl. 239-102.

MacFarlane Thirsk (Engineers) Limited: *See—*
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MacFarlane, Walter J.; and Russo, Robert R., to Stanley Works, The. Master carrier with automatically adjustable ring. 3,665,550, 5-30-72, Cl. 16-93.

MacFarlane, Walter J.; and Feer, Lawrence P., to Judd, Stanley. Wrap-around valance finial. 3,693,210, 9-26-72, Cl. 16-87.000.

MacGeorge, William D., to Testing Technology Corporation. Pressure transducer. 3,635,090, 1-18-72, Cl. 73-398.

MacGreene, Joseph: *See—*
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MacGregor Comarain S.A.: *See—*
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Macgregor, Paul T.: *See—*
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Macgregor, Peter Stevens, to Flight Refueling Limited. Air-to-air refuelling hose reels. 3,674,049, 7-4-72, Cl. 137-355.200.

MacGregor, Rob R.: *See—*
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MacGugan, Ian: *See—*
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MacGuire, Andrew Edward. Method of manufacturing electric heating panels. 3,664,013, 5-23-72, Cl. 29-611.

Mach, George J.: *See—*
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Mach, Vladimir: *See—*
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Machacek, Jiri: *See—*
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Machado, Anthony A. Distributor for internal combustion engine with improved adjustable rotor contact assembly. 3,660,622, 5-2-72, Cl. 200-19.

Machado, Joseph G. High pressure hot water cleaner. 3,645,420, 2-29-72, Cl. 222-23.

Machatzke, Heinz; and Singer, Josef, to Farbenfabriken Bayer Aktiengesellschaft. Anthraquinone dyestuffs. 3,682,978, 8-8-72, Cl. 260-372.000.

Machell, Eugene F.; Wylie, John E.; and Thompson, Robert B., to Mobil Oil Corporation. Single stage crystallization process for separating high purity paraxylene. 3,662,013, 5-9-72, Cl. 260-674.

Machell, Greville: *See—*
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Machell, Greville, to Deering Milliken Research Corporation. Multi step in situ polymer formation to produce fabric having improved soiling characteristics. 3,652,212, 3-28-72, Cl. 8-115.5.

Machenschalk, Rudolf; and Wagner, Herbert, to Schwarzkopf Development Corporation. Rotating X-ray target. 3,697,798, 10-10-72, Cl. 313-330.000.

Macher, Karl, to Schneider, Jos., & Co., Optische Werke Kreuznach. High-speed varifocal objective system with five-lens basic objective. 3,707,324, 12-26-72, Cl. 350-184.000.

Machida, Hazime: *See—*
Okuno, Zenjiro; and Machida, Hazime, 3,639,243.

Machida, Hazime; and Okuno, Zenjiro, to Kabushiki Kaisha Ricoh. Liquid developer for use in electrophotography. 3,639,244, 2-1-72, Cl. 252-62.1.

Machida, Hazime; Tsurugi, Akira; Okuno, Zenjiro; and Mizuno, Akinori, to Kabushiki Kaisha Ricoh. Liquid developer for electrophotography. 3,657,130, 4-18-72, Cl. 252-62.1.

Machida, Hazime; and Okuno, Zenjiro, to Kabushiki Kaisha Ricoh. Liquid developer for electrophotography. 3,668,127, 6-6-72, Cl. 252-62.100.

Machida, Takayasu: *See—*
Nikaido, Akira; Onda, Mitsuo; Nakajima, Fumio; Machida, Takayasu; and Sudo, Shunji, 3,668,488.

Machida, Takehiko; Yoshida, Yukio; Fujii, Noriyoshi; and Yokoyama, Kenjiro, to Hitachi, Ltd. and Zaidan Hojin Denryoku Chuo Kenkyusho. By-pass control system for high voltage D.C. convertor using semiconductor control rectifiers. 3,636,431, 1-18-72, Cl. 32-11.

Machida, Takehiko; Yoshida, Yukio; Iwata, Koji; and Yokoyama, Kenjiro, to Hitachi, Ltd. and Zaidan Hojin Denryoku Chuo Kenkyusho. Control and protection arrangement for a D.C. power transmission system. 3,659,186, 4-25-72, Cl. 321-14.

Machida, Tetsuo: *See—*
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Machida, Tetsuo, to Sony Corporation. Push button assembly. 3,676,810, 7-11-72, Cl. 335-159.000.

Machii, Tetsuo: *See—*
Suenaga, Masanobu; Machii, Tetsuo; Sawano, Takahiro; Kobayashi, Takehiko; Dengo, Tadao; and Nakai, Tetsuzo, 3,648,121.

Machin, Charles M., Jr.; and Fawcett, John E., to Chesapeake and Ohio Railway Company, The and Baltimore and Ohio Railroad Company, The. Dynamic braking control system for plural traction motors. 3,651,388, 3-21-72, Cl. 318-88.

Machine Products Corporation: *See—*
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Machinery and Gears Hansen: *See—*
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Machines Automatiques Modernes: *See—*
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Machleidt, Hans: *See—*
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Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, 3,661,903.
Ohnacker, Gerhard; Daniel, Helmut; and Machleidt, Hans, 3,691,173.
Reuter, Wolfgang; Kutter, Eberhard; Sauter, Robert; Machleidt, Hans; and Wildfeuer, Alexander, 3,655,685.
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Seeger, Ernst; Engel, Wolfhard; Teufel, Helmut; Machleidt, Hans; Ueberberg, Heinrich; and Ihring, Hanns, 3,642,801.

Machlett Laboratories, Incorporated, The: *See—*
Braun, Martin; Grossel, Stanley S.; and Singer, Barry M., 3,697,795.

Garewal, Khem; and Singer, Barry M., 3,646,379.
Gordon, Jeffrey L., 3,665,247.
Holland, William P.; and Azud, Robert E., 3,699,373.
Kessler, Gordon R., 3,634,870.
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Machlin, Lawrence J.: *See—*
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Machnacz, Joseph H. Page turner for sheet music and the like. 3,665,093, 5-23-72, Cl. 84-487.000.

Machner, Peter: *See—*
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Machol, Guenther K.: *See—*
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Machol, Richard Erving, Jr.: *See—*
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Machon, Raymond; Flechet, Jean; and Hugo, Etienne. Composition for scouring natural silk and textile fibres. 3,664,805, 5-23-72, Cl. 8-138.

Machulsky, Petr Alexeevich: *See—*
Gerchenova, Nina Andreevna; Gurvich, Lev Moiseevich; Zelenskaya, Olga Ivanovna; Koretsky, Alexandr Filippovich; Machulsky, Petr Alexeevich; Nesterova, Maria Petrovna; Selifanova, Evdokia Prokofievna; Taubman, Arkady Borisovich; and Furaeva, Ekaterina, 3,68,099.

Maci, Raymond J., to General Motors Corporation. Brake pump air valve and cooling means. 3,670,854, 6-20-72, Cl. 188-71.600.

Macielinski, Jerzy Witold, to GKN. Birfield Transmissions Limited. Constant velocity universal joints. 3,664,152, 5-23-72, Cl. 64-8.000.

MacIntyre, Archibald A. Structure for and method of sorting and orienting. 3,684,077, 8-15-72, Cl. 198-33.0aa.

Macintyre, John S.: *See—*
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Wiesler, Mordechai; Martinonis, Virgil; and Macintyre, John S., 3,695,414.
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Macintyre, Steven A.: *See—*
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Macione, Jack F.: *See—*
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MacIsaac, John T., Jr.: *See—*
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MacIver, Bernard A., to General Motors Corporation. Hybrid solid-state voltage variable tuning capacitor. 3,648,340, 3-14-72, Cl. 29-25.42.

Mack, Arthur F., Jr. Combined platform and step for boat transoms. 3,670,847, 6-20-72, Cl. 182-92.000.

Mack, Charles H.: *See—*
Franklin, William E.; Mack, Charles H.; and Rowland, Stanley P., 3,632,298.

Mack, Edward J.; and Childs, Harris T., Jr., to Dixon Corporation. Bearing compositions. 3,652,409, 3-28-72, Cl. 252-12.

Mack, Frank Joseph; and Simpkins, Terry John, to Drackett Company, The. Automatic toilet bowl cleaner dispenser. 3,698,021, 10-17-72, Cl. 4-227.000.

Mack, Grnat V., to Reynolds Metals Company. Casket construction and method of making same. 3,676,905, 7-18-72, Cl. 27-6.000.

Mack, James M.: *See—*
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Mack, Malcolm: *See—*
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Mack, Michael E., to United Aircraft Corporation. Superradiant traveling-wave dye laser. 3,675,151, 7-4-72, Cl. 331-94.500.

Mack, Richard C.; Lejnieks, George; and Morrison, Edward D., to Eastman Kodak Company. High pressure calendering of a paper web between heated calender rolls having non-resilient surfaces. 3,647,619, 3-7-72, Cl. 162-206.

Mack, Richard J., to Richardson-Merrell, Inc. Process and composition for botfly larvae elimination. 3,662,068, 5-9-72, Cl. 424-253.

Mack, Robert J.; and Fischer, John L., to Kendall Company, The. Hydrophobic non-adherent wound dressing. 3,703,897, 11-28-72, Cl. 128-156.000.

Mack, Robert L.: *See—*
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Mack, Ronald H.: *See—*
Kondur, Nicholas, Jr.; and Mack, Ronald H., 3,693,545.

Mack, Ronald H.; Kondur, Nicholas, Jr.; and Mitchell, James A., to Burroughs Corporation. Print and transport belt synchronizer. 3,667,383, 6-6-72, Cl. 101-93.00c.

Mack, Ronald H.; Wilczewski, Robert H.; and Kondur, Nicholas, Jr., to Burroughs Corporation. Reciprocally engageable clutch mechanism. 3,703,948, 11-28-72, Cl. 192-33.00r.

Mack, Thomas W.; Peretto, David P.; and Allen, Alden W., to Sperry Rand Corporation. Method of reducing bit line to bit line coupled noise in a plated-wire memory stack. 3,643,239, 2-15-72, Cl. 340-174.

Mack Trucks, Inc.: *See—*
Alexander, Willis; and Shaltis, Robert J. (said Alexander assor. to), 3,645,402.
Greathouse, Jack F., 3,667,432.
Pelizzoni, Winton J., 3,650,251.
Pelizzoni, Winton J., 3,659,572.
Trump, Norman M., 3,695,698.

Mack, Walter, to Litton Precision Products, Inc. Trimmer potentiometers. 3,696,318, 10-3-72, Cl. 338-162.000.

Mack, Zdenek, to Tesla, narodni podnik. Apparatus and method for detecting phase deviation of a pilot sub-carrier in stereophonic multiplex broadcasting. 3,660,607, 5-2-72, Cl. 179-15.

Mack, Zdenek, to Tesla, narodni podnik. Circuit arrangement for adding two signals in exact mutual phase position. 3,681,648, 8-1-72, Cl. 315-23.000.

Mackal, Henry H.; and Behnke, Kenneth P., to Halkey-Roberts Corporation. Valve extractor. 3,696,494, 10-10-72, Cl. 29-213.000.

Mackas, Vladimir; and Pomeroy, Walter S. Method for making a locked seal in a bearing. 3,683,475, 8-15-72, Cl. 29-148.40s.

MacKay, Donald R. H., to Guiness, Arthur, Son & Company, (Dublin) Limited. Spiral staircases. 3,667,176, 6-6-72, Cl. 52-187.000.

MacKay, Frank A.: *See—*
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Mackay, Frederick G.; and Stratman, Jerome F., to Toppan Company, The. Modular shell for disposers and the like. 3,648,878, 3-14-72, Cl. 220-4.

MacKay, John K.: *See—*
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Quinn, Edward J.; and MacKay, John K., 3,642,584.

MacKay, Joseph H., Jr., to Norton Company, mesne. Abrasive finishing article. 3,667,169, 6-6-72, Cl. 51-379.

MacKay, Joseph H., Jr., to Norton Company, mesne. Finishing article and support member therefor. 3,667,170, 6-6-72, Cl. 51-389.000.

Mackay, Michael T. Silver recovery. 3,692,291, 9-19-72, Cl. 266-22.000.

Mackay, Ronald George, to Plessey Handel und Investments A.G. Apparatus for removing section of covering from plastics-covered wire. 3,657,795, 4-25-72, Cl. 29-427.000.

Macke, Thomas F.; and Olson, Robert W. Folding apparatus. 3,656,741, 4-18-72, Cl. 270-66.

MacKellar, Donald G.: *See—*
Castrantas, Harry M.; Keay, Robert E.; and MacKellar, Donald G., 3,677,955.
Keay, Robert E.; Castrantas, Harry M.; and MacKellar, Donald G., 3,635,667.

Macken, John A., to North American Rockwell Corporation. Optical isolator. 3,644,016, 2-22-72, Cl. 350-150.

Macken, John T.; and Schaefer, Albert H. Vented hearing aid ear mold. 3,702,123, 11-7-72, Cl. 181-23.000.

MacKenzie, Burton T., Jr.; and Betts, Joseph E., to General Electric Company. Method for manufacturing cross-linked chlorinated polymeric systems. 3,639,529, 2-1-72, Cl. 260-897.

Mackenzie, Elbert K., to Electro-Mechanical Instrument Co., Inc. Drum indicator. 3,638,118, 1-25-72, Cl. 324-146.

Mackenzie, Elbert K., to Electro-Mechanical Instrument Co., Inc. Index mountings for electrical meters. 3,638,119, 1-25-72, Cl. 324-156.

Mackenzie, Elbert K., to Electro-Mechanical Instrument Company, Inc. Readout devices with light conducting channels. 3,677,619, 7-18-72, Cl. 350-110.000.

MacKenzie, Gerald L., 1/2 to DeLong, Donald G. Solid rocket fuel composition containing metal hydride with butyl rubber and method of making same. 3,650,855, 3-21-72, Cl. 149-19.

MacKenzie, Gerald L.; and Mosher, Paul R., to United States of America, Navy. Hydrogen gas generating composition and method for the same. 3,674,702, 7-4-72, Cl. 252-188.000.

Mackenzie, Gordon C.: *See—*
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MacKenzie, James Alexander. Shelving components. 3,643,607, 2-22-72, Cl. 108-111.

Mackenzie, John C., to United States of America, Navy, mesne. Method for preparing solid films. 3,660,155, 5-2-72, Cl. 117-201.

Mackenzie, John D.: *See—*
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MacKenzie, John D.; and Klemm, Edwin O., to Pegless Cribbage Board Company. Game counter. 3,651,313, 3-21-72, Cl. 235-112.

MacKenzie, Joseph H., Jr. Wire termination block construction. 3,670,296, 6-13-72, Cl. 339-198.00g.

Mackenzie, Raymond W.: *See—*
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Mackenzie, Robert A. Draw forming. 3,677,057, 7-18-72, Cl. 72-305.000.

MacKenzie, Robert D.: *See—*

Tilford, Charles H.; Blohm, Thomas R.; and MacKenzie, Robert D., 3,641,155.

Mackerle, Julius, to Ustav pro Vyzkum Motorovych Vozidel. Drive wheel of vehicle. 3,642,082, 2-15-72, Cl. 180-8.

Mackerle, Julius, to Ustav pro vyzkum motorovych vozidel. Self-propelled drive wheels. 3,647,012, 3-7-72, Cl. 180-8.

Mackerle, Julius, to Ustav pro vyzkum motorovych vozidel. Driver wheel of vehicle. 3,672,458, 6-27-72, Cl. 180-8.00f.

Mackey, Bruce Alexander, Jr.; and Naureckas, Edward Martin, to Radial Lip Machine, Inc., mesne. Method of grinding drills. 3,656,264, 4-18-72, Cl. 51-288.000.

Mackey, Charles L., to Trio Machine and Manufacturing Company, Inc. Hand truck. 3,647,238, 3-7-72, Cl. 280-47.29.

Mackey, E. Scudder, to GAF Corporation. Antihalation photographic media and method of preparation. 3,640,748, 2-8-72, Cl. 117-33.3.

Mackey, E Scudder, to GAF Corporation. Photographic materials containing anti-halation dyestuffs. 3,652,283, 3-2 -72, Cl. 96-84.

Mackey, E. Scudder; and Miceli, Vincent J., to GAF Corporation. Antistatic film properties using methyl vinyl ether/maleic acid interpolymer. 3,676,209, 7-11-72, Cl. 117-161.0uc.

Mackey, Edward F.: *See—*
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Mackey, Richard C.; and Neill, W. James, to Acoustifone Corporation. Sound tube headset. 3,667,569, 6-6-72, Cl. 181-31.

Mackie, James, & Sons Limited: *See—*
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Mackie, John K. P., to Mackie, James, & Sons Limited. Flyers. 3,643,415, 2-22-72, Cl. 57-117.

Mackie, Kenneth. Sound producing fishing lure. 3,693,279, 9-26-72, Cl. 43-42.600.

Mackie, William L., to United States of America, Navy. Method of constructing foamed in place building containing heating wire. 3,668,287, 6-6-72, Cl. 264-46.000.

Mackie, William L., to United States of America, Navy. Intumescent fillers for paints. 3,697,422, 10-10-72, Cl. 252-8.100.

Mackie, William L. Erodable material. 3,705,659, 12-12-72, Cl. 215-1.00c.

Mackiernan, Kathleen, 40% to Goode, Stephen T. False eye-lash curling and cleaning device. 3,644,955, 2-29-72, Cl. 15-104.92.

Mackiewicz, Czeslaw: *See—*
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Mackin, Arthur S., to United States of America, Navy. Erasable holographic recording. 3,671,096, 6-20-72, Cl. 350-3.500.

Mackin, John G., Jr.: *See—*
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Mackin, Michael H.: *See—*
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MacKinney, John J., to Budd Company, The. Electroforming jointless metal belt. 3,704,175, 11-28-72, Cl. 204-9.000.

MacKinnon, Alan G., to Brode, W. M., Company, The. Highway slotting device. 3,703,857, 11-28-72, Cl. 94-45.00r.

Mackinnon, Ian Archie, to Lely Ltd. Spreading implements and/or transport vehicles. 3,682,393, 8-8-72, Cl. 239-651.000.

Mackinnon, Ian Malcolm: *See—*
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Mackintosh, Alexander W. P., to Macotex (Machinery) Limited. Method of, and apparatus for, delivering yarns to textile machines. 3,631,664, 1-4-72, Cl. 57-34.

Mackiw, Vladimir Nicolaus: *See—*
Zubryckyj, Nicolas; Mackiw, Vladimir Nicolaus; and Weir, Donald Robert, 3,640,706.

Mackiw, Vladimir Nicolaus; Veltman, Herbert; and Vizsolyi, Andrew Imre, to Gordon, Sherritt, Mines Limited. Direct pressure leaching of copper-iron sulphides. 3,637,371, 1-25-72, Cl. 75-101.

Macknik, Louis S.; and Kissell, Kenneth E., to United States of America, Air Force. Automatic variable gain optical tracker for space vehicles comprising DC system for error signal generation. 3,678,279, 7-18-72, Cl. 250-203.000.

Mackworth-Young, Robert C. Apparatus and method for tuning musical instruments. 3,631,756, 1-4-72, Cl. 84-454.

Mackzum, Stanley C.: *See—*
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Mackzum, Stanley C., Jr., to General Electric Company. Carrying device for a radio receiver or the like. 3,631,994, 1-4-72, Cl. 224-26.

MacLachlan, Robert K.; and Chambers, Derek, to Machlett Laboratories, Incorporated, The. Modulator system. 3,683,191, 8-8-72, Cl. 250-93.000.

Maclagan, Robert Gordon; and Griffiths, Geoffrey William, to Pye Limited. Amplifier mounted on rotor of gain control device. 3,684,830, 8-15-72, Cl. 179-1.00a.

MacLean, Alexander, to Electro Switch Corporation. Trigger mechanism for rotary switches and the like. 3,649,793, 3-14-72, Cl. 200-153.

MacLean, Alexander F.; and Stautzenberger, Adin L., to Celanese Corporation. Extractive distillation of acrylonitrile from acetonitrile using water. 3,689,377, 9-5-72, Cl. 203-96.000.

MacLean, Charles C., III; and Villa, Alfonso, to Freeman, Hovey T., Jr. Cast-in-place structural truss slab and manufactured pan. 3,640,040, 2-8-72, Cl. 52-337.

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MacLellan, James A.; and Wilson, John E., to Sherritt Gordon Mines Limited. Thickener. 3,685,654, 8-22-72, Cl. 210-97.000.

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Macleod, David E., to Carrier Corporation. Self-contained air conditioning unit. 3,703,087, 11-21-72, Cl. 62-262.000.

MacLeod, Donald Simon: *See—*
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MacLeod, Gardner J.: *See—*
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Macleod, Hugh Angus McIntosh, to Parson, Howard Grubb, Sir, & Company Limited. Instruments for analysing substances by determining their radiation absorption characteristics. 3,700,898, 10-24-72, Cl. 250-83.30h.

MacLeod, Hugh W.; and MacLeod, Gardner J. Disposable floor dispenser for bird cage. 3,672,332, 6-27-72, Cl. 119-17.000.

MacLeod, Kenneth H.: *See—*
Sullivan, Paul G.; MacLeod, Kenneth H.; and Kempa, Joseph E., 3,703,995.

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Maclin, Ernest, to Electro-Nucleonics, Inc. Peristaltic metering and dispensing pump. 3,684,408, 8-15-72, Cl. 417-477.000.

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MacMillan Bloedel Limited: *See—*
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Worster, Hans Edmund; and Pudek, Marian Franciszek, 3,695,994.

MacMillan, Charles W., to Applied Power Industries, Inc. Wheel balancing apparatus. 3,675,495, 7-11-72, Cl. 73-466.000.

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MacMillan, Lorne A. Apparatus for flushing water closets. 3,648,297, 3-14-72, Cl. 4-73.

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MacMorran, Robert D.: *See—*
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MacMullan, Samuel J., to Leeds & Northrup Company. Null-balance system with enhanced notch-type input filter. 3,639,825, 2-1-72, Cl. 318-621.

MacMullan, Samuel J., to Leeds & Northrup Company. Single element adjustment for span and gain. 3,697,871, 10-10-72, Cl. 324-99.00r.
MacMullen, Alexander, to Hughes Aircraft Company. Pulse compression code sequencing system. 3,663,935, 5-16-72, Cl. 343-17.20r.
MacMurray, Robert R. Plant growth regulation. 3,697,253, 10-10-72, Cl. 71-97.
Macnab, Robert Beattie; Ross, John Sterry Hawley; and Wood, Michael Burke, to International Research & Development Company Limited. Rotary electrical machines. 3,648,082, 3-7-72, Cl. 310-10.
MacNiel, Douglas K., to Dacor Corporation. Single hose underwater regulator. 3,633,611, 1-11-72, Cl. 137-494.
MacNiel, Douglas K., to U.S. Divers Co. Swim fin. 3,649,979, 3-21-72, Cl. 9-309.
MacNiel, Douglas K., to U.S. Divers Co. Depth gauge. 3,693,446, 9-26-72, Cl. 73-300.000.
Macomber, Robert A.; and Dehne, Clarence A., to Webb, Jervis B., Company. Power and free conveyor system with variable length carriers. 3,683,817, 8-15-72, Cl. 104-89.000.
Macone, Frederick W., to Avant Incorporated. Laminated card envelope. 3,679,512, 7-25-72, Cl. 156-272.000.
Macone, Frederick W.; and La Fortune, Normand J., to Avant Incorporated. Exposure control system which eliminates double exposures in a multiple image camera. 3,687,040, 8-29-72, Cl. 95-36.00r.
Macone, Frederick W.; and Lafortune, Normand, to Avant Incorporated. Transport belt alignment system. 3,687,273, 8-29-72, Cl. 198-202.000.
Maconomy (Proprietary) Limited: *See—*
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Macor, Tranquillo: *See—*
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Macoustra, James, to BP Chemicals (U.K.) Limited. Lead filled polyurethane foams. 3,644,236, 2-22-72, Cl. 260-2.5.
Macovski, Albert, to RCA Corporation. Non-interacting lens system for a color encoding camera. 3,641,255, 2-8-72, Cl. 178-5.4.
Macovski, Albert, to American Express Investment Management Company. Hologram reproduction system using an optical grating. 3,641,264, 2-8-72, Cl. 178-6.5.
Macovski, Albert, to Stanford Research Institute. Real time interferometry utilizing a television system. 3,649,754, 3-14-72, Cl. 178-6.8.
Macovski, Albert, to Stanford Research Institute. Optical data processing system. 3,665,097, 5-23-72, Cl. 178-6.000.
Macovski, Albert, to RCA Corporation. Decoding of color-encoded phase grating. 3,702,725, 11-14-72, Cl. 350-162.0sf.
MacPhail, Alexander C. B.; Lauck, John E.; and Wendler, Kenneth T., to Shell Oil Company. Lubricant compositions. 3,634,239, 1-11-72, Cl. 252-32.5.
Macphail, Alexander C. B.; and Keddie, Ian, to Shell Oil Company. Lubricant compositions. 3,642,630, 2-15-72, Cl. 252-47.5.
MacPherson, Alan C., to United States of America, Navy. Compensated negative resistance device. 3,636,465, 1-18-72, Cl. 330-61.
Macpherson, Anne Wilson: *See—*
Marshall, Alan; and Macpherson, Anne Wilson, 3,665,073.
MacPherson, Donald Reid, to Johns-Manville Corporation. Method of water filtration. 3,680,699, 8-1-72, Cl. 210-75.000.
Macpherson, Duncan H., to Western Gear Corporation. Self-energizing retractable powered drive roller assembly. 3,690,440, 9-12-72, Cl. 198-127.00r.
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Macpherson, Roger, to American Tatra Inc. Apparatus for testing front wheel alignment. 3,685,161, 8-22-72, Cl. 33-285.000.
MacQueston, Dexter H., to Goodspeed Machine Company. Tenon fluting machine. 3,651,843, 3-28-72, Cl. 144-198.
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Macrander, Karl; and Kessel, Heinrich, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Device for emptying floating containers. 3,687,307, 8-29-72, Cl. 214-12.000.
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Macyczko, John; and China, Endy, to Gulf & Western Industries, Inc. Distributor rotor with improved contact securing means. 3,663,771, 5-16-72, Cl. 200-19.0dr.
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Maddan, Orville Lee, Jr. Construction joint for buildings and the like. 3,665,668, 5-30-72, Cl. 52-593.
Madden, Edwin J.: *See—*
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Madden, Ernest Francis, to Drucker, William A. Profile transferring device. 3,678,587, 7-25-72, Cl. 33-175.
Madden, John J.; deceased (by Madden, Marilyn B.; administratrix), to Becton, Dickinson & Company. Disposable unitary surgical drape. 3,693,618, 9-26-72, Cl. 128-132.00d.
Madden, Marilyn B.: *See—*
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Madden, Norman W.: *See—*
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Maddick, George Albert Farquhar. Apparatus for monitoring flow of current in a conductor. 3,670,231, 6-13-72, Cl. 321-12.
Maddison, Horace P. Flexible male urinal receptors. 3,631,857, 1-4-72, Cl. 128-295.
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Maddock, Herbert Fernyhough. Articles such as electroforms and method of making same. 3,658,660, 4-25-72, Cl. 204-4.
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Maddox, Jim, Jr.; and Schoen, William, to Texaco Inc. Composition and process for inhibiting corrosion in oil wells. 3,687,847, 8-29-72, Cl. 252-8.55e.
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Maddox, William Joseph; and Weingarten, Morris Robert, to RCA Corporation. Photographic process for preparing a screen structure for a cathode-ray tube. 3,636,836, 1-25-72, Cl. 95-1.

Maddy, Sanford L.; and Templin, Jackson R., to General Motors Corporation. Shearing contact switch. 3,646,286, 2-29-72, Cl. 200-61.8.

Madej, Thaddeus A. Method and apparatus for collecting oil from an underwater leak. 3,666,100, 5-30-72, Cl. 210-83.000.

Madelung, Gero Otto: *See—*
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Madelung, Gero Otto, to Entwicklungsring Sud GmbH. Take-off and landing platform for vertical take-off and landing planes. 3,645,478, 2-29-72, Cl. 244-114.

Mader, Berthold: *See—*
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von Konig, Anita; Kabbe, Hans-Joachim; Mader, Helmut; Otto, Rigobert; and Reuss, Helmut, 3,692,527.

Mader, Horst Heinrich Georg, to Atlas Copco Aktiebolag. Pipe wrench. 3,698,266, 10-17-72, Cl. 81-53.00a.

Mader, Lawrence, to Dale Electronics, Inc. Motorized potentiometer with overload clutch and interchangeable gear ratio. 3,646,375, 2-29-72, Cl. 310-83.

Mader, Peter Ernst. Lining device. 3,673,937, 7-4-72, Cl. 95-12.000.

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Madern, Jean-Pierre. Fluid filter. 3,633,757, 1-11-72, Cl. 210-457.

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Madigan, Edward J., to Cosmetics & Pharmaceuticals, Inc. Method of protecting the skin from ultraviolet radiation with titanic acid and esters of titanic acid. 3,697,642, 10-10-72, Cl. 424-59.000.

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Madlener, Paul; and Pecksen, Otto, to Industrie-Werke Karlsruhe Aktiengesellschaft. Mine detonator with electric ignition. 3,703,867, 128-72, Cl. 102-70.20r.

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Madsen, Andrew, to Resource Data Corporation. System for delineating selective response of a material to radiation in presence of visible illumination. 3,663,814, 5-16-72, Cl. 250-83.3.

Madsen, Ditlev P.; and Pikel, John H., to Chemetron Corporation. Continuous rendering process. 3,655,702, 4-11-72, Cl. 260-412.6.

Madsen, Eigil, to Nielsen, H., & Son Maskinfabrik A/S. Magnet yoke for lifting iron bars. 3,658,372, 4-25-72, Cl. 294-65.5.

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Magee, Philip S., to Chevron Research Company. Method for preparing O-methyl-S-methyl phosphoroamidothioate. 3,639,547, 2-1-72, Cl. 260-989.

Magee, Philip S., to Chevron Research Company. O-Alkyl-S-unsaturated aliphatic hydrocarbyl phosphoroamidothioates. 3,649,723, 3-14-72, Cl. 260-956.

Magee, Richard Joseph: *See—*
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Magerlein, Barney J., to Upjohn Company, The. Novel compounds related to lincomycin, a process for making the same, and a process for converting them to lincomycin and lincomycin analogs. 3,681,321, 8-1-72, Cl. 260-210.00r.

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Magerlein, Barney J., to Upjohn Company, The. Intermediates for making lincomycins and process for preparing the same. 3,704,289, 11-28-72, Cl. 260-210.00r.

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Magers, Leroy; Riddle, John H.; and Eitzen, August D., to Gulf General Atomic Incorporated. Prestressing apparatus. 3,687,380, 8-29-72, Cl. 242-7.210.

Mages, Karl; and Ulli, Hans, to Elektrodenfabrik Oerlikon Buehrle AG. Method for arc welding using individual pulse control for material detachment and acceleration. 3,683,149, 8-8-72, Cl. 219-137.000.

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Magis, Sigfred F., to United States of America, Navy. Naturally fragmenting projectiles of AISI 06 steel. 3,676,907, 7-18-72, Cl. 29-1.210.
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Magner, Philip G., Jr.; and Mitten, Robert W., to General Tire & Rubber Company, The. Means for smoothing the inside surface of plastic hose. 3,644,696, 2-22-72, Cl. 219-10.57.
Magnetech Industries, Inc.: *See—*
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Magneville, Pierre; and Duconge, Claude, to Institut Francais du Petrole, des Carburants et Lubrifiants. Device for feeding an explosion generator with explosive charges. 3,656,655, 4-18-72, Cl. 221-82.
Magneville, Pierre, to Institut Francais du Petrole, des Carburants et Lubrifiants. Device for detonating explosive charges in a liquid medium. 3,685,448, 8-22-72, Cl. 102-24.000.
Magnino, Pete J., Jr.; and Frederiksen, Christopher W., to Ralston Purina Company. Method of producing a soluble protein product. 3,645,745, 2-29-72, Cl. 99-17.
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Magnotto, Frank A. Instrument for marking pipe insulation for miter cuts. 3,673,689, 7-4-72, Cl. 33-75.00r.
Magnus, Agatha C. Glucosamine-alkylsulfonate and process. 3,679,660, 7-25-72, Cl. 260-211.00r.
Magnuski, Henry. Digital radio communication systems using repeaters operating at same frequency. 3,646,441, 2-29-72, Cl. 325-13.
Magnuson, John E.: *See—*
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Magnusson, Bengt; and Bizzarri, Venanzio. Electric resistance heater. 3,681,737, 8-1-72, Cl. 338-262.000.
Magnusson, Bengt Gunnar; and Neovius, Theodor Gosta, to Telefonaktiebolaget L M Ericsson. Selector network with scanning and establishing function. 3,683,117, 8-8-72, Cl. 179-18.0gf.
Magnusson, Elof Folke. Hitches for tractor-mounted implements. 3,662,848, 5-16-72, Cl. 180-51.
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Magnusson, Olov Tage; and Kenneryd, Karl Gosta Lennart, to Aktiebolaget Electrolux. Gas-operated refrigerator having sealed combustion system. 3,668,889, 6-13-72, Cl. 62-476.000.
Mago, Blake F., to Union Carbide Corporation. Zinc-rich protective coatings for metals. 3,634,109, 1-11-72, Cl. 106-1.
Mago, Brij Mohan; and Bruton, James Isaac, to Allied Chemical Corporation. High strength polyethylene terephthalate yarn and cord produced therefrom. 3,690,362, 9-12-72, Cl. 152-359.000.
Magoon, Eugene F., to Shell Oil Company. Olefin-alkyl iodide exchange. 3,697,611, 10-10-72, Cl. 260-677.0xa.
Magosch, Karl-Heinz; Rombusch, Konrad; and Eichers, Ursula, to Chemische Werke Huls Aktiengesellschaft. Antistatic molding compositions. 3,701,765, 10-31-72, Cl. 260-93.700.
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Magrane, Robert T., to Phelon, R. E., Company, Inc. Combined alternator and ignition trigger signal generator with arrangement for suppressing spurious trigger signals. 3,673,490, 6-27-72, Cl. 322-50.000.
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Maguire, Eileen; and Kadison, Leon A., to Crown City Plating Co. Pre-etch treatment of acrylonitrile-butadiene-styrene resins for electroless plating. 3,671,289, 6-20-72, Cl. 117-47.00a.
Maguire, Eileen; and Kadison, Leon A., to Crown City Plating Co. Conditioning of propylene polymers for electroless plating. 3,686,016, 8-22-72, Cl. 117-47.00a.
Maguire, Eileen; and Kadison, Leon A., to Crown City Plating Co. Process for electroless plating of ABS resins. 3,689,303, 9-5-72, Cl. 117-47.00a.
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Magunov, Robert Leonidovich: *See—*
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Mahaffy, Reid A.; Dunkerley, James B.; and Posta, Joseph M., to Mahaffy & Harder Engineering Company. Automatic packaging apparatus with improved means for cutting and contour trimming of packages. 3,685,251, 8-22-72, Cl. 53-184.000.
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Mahaney, Joseph Francis. Removable chute for a hopper. 3,650,420, 3-21-72, Cl. 214-44.
Mahanty, Bhaskar Chandra; and Mahn, Gustav, to Salzgitter Huttenwerk Aktiengesellschaft. Process and device for determining the oxygen concentration in metal melts. 3,681,972, 8-8-72, Cl. 73-19.000.
Mahar, John H., to Esso Research and Engineering Company. Split feed to a fluidized iron ore reduction process. 3,684,482, 8-15-72, Cl. 136-26.000.
Mahe, Yves; Letourneur, Gilbert; and Devillas, Jean-Luc, to La Cellophane, Societe Anonyme. Coating process for regenerated cellulose film. 3,690,910, 9-12-72, Cl. 117-7.000.
Maher, Frank A., to Vapor Corporation. Method of making a heat exchanger coil assembly. 3,639,963, 2-8-72, Cl. 29-157.3.
Maher, Galeb H., to Sprague Electric Company. Low temperature fired rare earth-titanate ceramic body and method of making. 3,682,766, 8-8-72, Cl. 161-196.000.
Maher, Pat. Tank heater. 3,703,167, 11-21-72, Cl. 126-350.00r.
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Maher, Robert A. Graphic communication system. 3,684,828, 8-15-72, Cl. 178-18.000.
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Maher, William M., to General Electric Company. Brush holder assembly. 3,656,018, 4-11-72, Cl. 310-242.
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Mahl, Hans; and Lind, Heinrich, to Kalle Aktiengesellschaft. Process for the production of a flexible, synthetic, gas-permeable, multilayer sheet material having a napped outer surface. 3,684,556, 8-15-72, Cl. 117-63.000.
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Mahla, Elbert M.: *See—*
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Mahling, Dieter: *See—*
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Mahlman, Bert H., to Hercules Incorporated. Polyphase compositions and process for their preparation. 3,664,981, 5-23-72, Cl. 260-27.
Mahlman, Bert H., to Hercules Incorporated. Polyphase propylene polymer-rubber compositions and process for their preparation. 3,665,059, 5-23-72, Cl. 260-897.
Mahlman, Bert H., to Hercules Incorporated. Polyphase compositions and process for their preparation. 3,689,597, 9-5-72, Cl. 260-897.00r.
Mahlman, Bert H.; and Spurlin, Harold M., to Hercules Incorporated. Polyphase compositions. 3,705,123, 12-5-72, Cl. 260-28.50a.
Mahlmann, James P.; Coogan, Joseph F., III; and Mazzaferro, Gene Alfred, to General Foods Corporation. Roasting of subdivided coffee beans. 3,706,574, 12-19-72, Cl. 99-69.000.
Mahlmann, Werner, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Driving system for moving rails of textile machines. 3,635,020, 1-18-72, Cl. 60-51.
Mahlstede, Gerald F.; and Carruth, Buster L., to Polar Chilled Products Co., Inc. Bottle rinsing apparatus. 3,677,273, 7-18-72, Cl. 134-127.000.
Mahmoodi, Parviz, to Minnesota Mining and Manufacturing Company. Disposable temperature-sensing device. 3,663,917, 5-16-72, Cl. 338-28.
Mahmoud, Aly A., to United States of America, Navy. System for asynchronous switching of a load from one power source to another. 3,638,040, 1-25-72, Cl. 307-243.
Mahmoud, Aly A., to United States of America, Navy. Low frequency power transient filters. 3,660,787, 5-2-72, Cl. 333-76.000.
Mahn, Gustav: *See—*
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Mahon, Thomas J.; and Cherba, Samuel, to Becton, Dickinson and Company, mesne. Breathing circuit. 3,670,726, 6-20-72, Cl. 128-188.000.
Mahone, Asie, Jr. Illuminated fishing bobber. 3,693,278, 9-26-72, Cl. 43-17.500.
Mahoney, David T. Metal dilator. 3,698,391, 10-17-72, Cl. 128-261.000.
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McCaulay, David A.; Hensley, Albert L., Jr.; and Mahoney, John A., 3,705,096.
Mahoney, John Thomas; and Tjaden, Garold Stephen, to Bell Telephone Laboratories, Incorporated. Bus coupler protection circuit. 3,654,517, 4-4-72, Cl. 317-33.
Mahoney, Michael. Universal screwdriver. 3,674,070, 7-4-72, Cl. 145-50.00a.
Mahoney, Ralph P., to Beloit Corporation. Coater with applicator rods. 3,650,242, 3-21-72, Cl. 118-246.
Mahoney, Tennis: *See—*
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Mahony, David T. Chair for measuring urinary flow rate. 3,670,342, 6-20-72, Cl. 4-134.000.
Mahorney, Kenneth R., to Danly Machine Corporation. Safety valve assembly for controlling clutch and brake in power press or the like. 3,670,767, 6-20-72, Cl. 137-596.000.
Mahr, Rene N.; Radoux, Henri Joseph; and Burton, Clement E., to S.A. des Anciens Etablissements, Paul Wurth. Tuyere stock for furnaces. 3,662,696, 5-16-72, Cl. 110-182.5.
Mahr, Rene N.; and Legille, Edouard, to S.A. Des Anciens Etablissements Paul Wurth. Furnace charging apparatus. 3,693,812, 9-26-72, Cl. 214-35.00r.
Mahringer, Karl Heinrich; and Langlitz, Karlheinz, to Demag Aktiengesellschaft. Support arrangement for a vessel used in high temperature operations. 3,684,265, 8-15-72, Cl. 266-36.00p.
Mahringer, Karl-Heinz: *See—*
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Mahy, Geoffrey Richard: *See—*
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Mai, Erich, to Haanmann, Josef, Freudenberger Winden- und Hebezeugfabrik. Landing gear for semitrailers or the like. 3,632,086, 1-4-72, Cl. 254-86.
Maiaro, Richard Joseph, to Ventech Automation Company, Inc. Cylinder positioner. 3,656,656, 4-18-72, Cl. 221-173.
Maichen, Karl, to Shell Oil Company. Infinitely variable friction gearing. 3,659,469, 5-2-72, Cl. 74-192.
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Maida, Osamu, to Nippon Kogaku K.K. Timer for a camera. 3,703,649, 11-21-72, Cl. 307-293.000.
Maiden, Donald L.; Monteith, James H.; and Carpini, Thomas D., to United States of America, National Aeronautics and Space Administration. Flow velocity and direction instrument. 3,699,811, 10-24-72, Cl. 73-189.000.
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Maier, Elmar; and Rangger, Herbert, to Hilti Aktiengesellschaft. Support assembly for a remotely fired power charge-operated bolt setter. 3,637,127, 1-25-72, Cl. 227-9.
Maier, Elmar; and Rangger, Herbert, to Hilti Aktiengesellschaft. Powder charge-operated bolt setter for securing exothermic plates on chill molds. 3,679,118, 7-25-72, Cl. 227-10.000.
Maier, Elmar, to Hilti Aktiengesellschaft. Cartridge explosion operated bolt setting gun for fastening iron chill plates. 3,682,364, 8-8-72, Cl. 227-9.000.
Maier, Gary H., to Ferti-Feeder, Inc. Fertilizer applying apparatus. 3,695,193, 10-3-72, Cl. 111-93.000.
Maier, Ivan W., to Molon Motor & Coil Corporation. Permanent magnet motor. 3,633,055, 1-4-72, Cl. 310-156.
Maier, John E.: *See—*
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Maier, Karl, to International Standard Electric Corporation. Filtering method and a circuit arrangement for carrying out the filtering method. 3,681,701, 8-1-72, Cl. 328-167.000.
Maier, Karl, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Red anthraquinone dyes containing ester groups. 3,687,985, 8-29-72, Cl. 260-376.000.
Maier, Karl, to International Standard Electric Corporation. Circuit arrangement for tecommunication switching systems employing time-division multiplex operation. 3,692,945, 9-19-72, Cl. 179-18.0gf.
Maier, Karl, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Anthraquinone dyes. 3,694,467, 9-26-72, Cl. 260-380.000.
Maier, Ludwig. Phosphorus compounds having the skeleton structure P-[C(C)n-P]$_2$ or P-[C(C)n-P]$_3$. 3,632,634, 1-4-72, Cl. 260-502.4.
Maier, Ludwig, to Monsanto Company. Nitrogen-containing tertiary phosphine sulfides. 3,632,649, 1-4-72, Cl. 260-570.5.
Maier, Ludwig. Arylene phosphinites. 3,632,689, 1-4-72, Cl. 260-930.
Maier, Ludwig. Process for preparing organic thioformamides and organic dithiocarbamates. 3,632,812, 1-4-72, Cl. 260-293.4.
Maier, Ludwig, to Monsanto Company. Built detergent compositions containing tris (methyl phosphonic acid) phosphine oxide and its salts. 3,639,281, 2-1-72, Cl. 252-89.
Maier, Ludwig. Tris-(2-hydroxyalkyl)-phosphine oxide flame retardant articles. 3,666,543, 5-30-72, Cl. 117-136.000.
Maier, Ludwig, to Monsanto Company. Flame retardant article containing tris-(3-halo-2-hydroxypropyl)-hydroxymethylphosphonium chloride. 3,681,126, 8-1-72, Cl. 117-136.000.
Maier, Ludwig, to Monsanto Company. Process for preparing organic phosphinic acid anhydrides. 3,689,548, 9-5-72, Cl. 260-543.00p.
Maier, Ludwig, to Monsanto Company. Halogenated phosphorus compounds containing the atom skeleton P-(C-P)$_2$ or P-(C-P)$_3$ and preparation. 3,701,817, 10-31-72, Cl. 260-932.000.
Maier, Martin; and Wolf, Eberhard, to Maschinenfabrik Fahr Aktiengesellschaft. Hay-harvesting implements. 3,640,056, 2-8-72, Cl. 56-370.
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Maier, Robert E., Jr.; and Moser, James R., to Harris-Intertype Corporation. Method and apparatus for feeding stacked sheet material. 3,674,258, 7-4-72, Cl. 271-77.000.
Maier, Robert E., Jr.; McGinnis, Joseph P.; and Simon, Paul R., to Harris-Intertype Corporation. Method and apparatus for feeding sheet material into a hopper. 3,690,650, 9-12-72, Cl. 271-89.000.
Maier, Roy R. Vehicle hook. 3,694,866, 10-3-72, Cl. 24-115.00j.
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Maierson, Theodore; Roe, Harry L., Jr.; and Williams, James E., to National Cash Register Company, The. Pre-fluxed solder powder. 3,703,254, 11-21-72, Cl. 228-56.000.
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Maijers, Andries Cornelis; and Ketel, Jacob, to U.S. Philips Corporation. Electrical circuit element having a diagonal abutment strip, and method of manufacturing the same. 3,691,436, 9-12-72, Cl. 317-261.000.
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Maillet, Wilfrid G., to Communications Satellite Corporation. Variable burst length TDMA system. 3,649,764, 3-14-72, Cl. 179-15.
Mailliard, Richard P. Mobile rock crushing apparatus. 3,656,696, 4-18-72, Cl. 241-155.
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Maina, Mario Joseph, to General Motors Corporation. Selector mechanisms for change-speed gears. 3,648,536, 3-14-72, Cl. 74-476.
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Maione, Joseph R.: *See—*
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Malburet, Rene A., to Compagnie de Saint-Gobain. Apparatus for handling fragile sheets. 3,679,073, 7-25-72, Cl. 214-1.00q.

Malchenko, Thomas Vasilievich: *See—*
Chaikin, Boris Semenovich; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskov, Kirill Mikhailvoch; Borschevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.

Malchman, Franklin L.; and Radoi, William J., to ESB Incorporated. Pulse rate monitor and indicator system utilizing a burst pulse counter and a pulse internal counter. 3,686,634, 8-22-72, Cl. 340-171.00r.

Malco Manufacturing Company, Inc.: *See—*
Krol, Stanley J., 3,691,509.
Kukla, Frank A.; Kalmar, Harold B.; and Petkunas, John A., 3,668,616.
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Malco Products, Inc.: *See—*
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Malcolm, Andrew, Furniture Co., The: *See—*
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Malcolm, Bruce G. Multi-diode single-cavity microwave oscillators. 3,691,479, 9-12-72, Cl. 331-107.000.

Malcolm, Earl W., to Dexter Corporation, The. Adding cationic material to silicic acid sorbent chromatographic sheet for improved performance. 3,647,684, 3-7-72, Cl. 210-31.

Malcolm, Ian, to Guildline Instruments Limited. Circuit for conversion from (RMS) A.C. to D. C. 3,689,824, 9-5-72, Cl. 321-1.500.

Malcolm, Robert La Verne: *See—*
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Malcolm, Ronald D.; Phelan, William J.; and Sangiolo, Thomas L., to Honeywell Inc. Central processor unit having simulative interpretation capability. 3,698,007, 10-10-72, Cl. 444-1.000.

Malcomson, Robert S.: *See—*
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Malczewski, Jeremie, to Societe Anonyme dite: Bronzavia. Apparatus for disinfecting and disinfesting premises. 3,640,464, 2-8-72, Cl. 239-69.

Maldeis, Lewis Fritts; and Shideler, Aubrey Meredith, to Martin-Marietta Corporation. Method for rapidly coating surfaces with wet, particulate materials. 3,653,951, 4-4-72, Cl. 117-104.

Malden, Ancile E.: *See—*
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Malden, Peter James, to English Clays Lovering Pochin & Company Limited. Treatment of clay. 3,635,744, 1-18-72, Cl. 106-288.

Malden, Peter James, to English Clays Lovering Pochin & Company Limited. Treatment of minerals. 3,666,513, 5-30-72, Cl. 106-288.00b.

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Bucher, Erich; and Maldener, Alfred, 3,659,796.

Maldonado, Juan Ramon; and Meitzler, Allen Henry, to Bell Telephone Laboratories, Incorporated. Strain-biased fine grain ferroelectric ceramic devices for optical image storage and display systems. 3,659,270, 4-25-72, Cl. 340-173.2.

Maldonado, Juan Ramon; and Meitzler, Allen Henry, to Bell Telephone Laboratories, Incorporated. Strain-biased fine grain electrooptic ceramic device for controlling optical phase retardation. 3,663,088, 5-16-72, Cl. 350-150.

Maldonado, Juan Ramon, to Bell Telephone Laboratories, Incorporated. Optical transmission system including strain-biased electrooptic ceramic devices. 3,695,747, 10-3-72, Cl. 350-150.000.
Maldonado, W. E., mesne: *See—*
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Malec, Robert E.: *See—*
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Malec, Robert E.; and Immethun, Peter A., to Ethyl Corporation. Complex esters. 3,637,501, 1-25-72, Cl. 252-57.
Malec, Robert E.; and Betty, Roy J., to Armour Industrial Chemical Company. Carburetor anti-icing composition. 3,647,378, 3-7-72, Cl. 44-70.
Malec, Robert E., to Ethyl Corporation. Synthetic lubricants. 3,673,226, 6-27-72, Cl. 260-410.600.
Maleck, Le Roy R., to Stewart Research, Inc. Hinge and door detent. 3,676,895, 7-18-72, Cl. 16-150.000.
Maleck, Le Roy R., to Admiral Corporation. Hinge and door detent. 3,676,896, 7-18-72, Cl. 16-150.
Malek, Fritz J., to Metrophysics, Inc. Method and apparatus for measuring radiation absorption in a fluid specimen. 3,678,269, 7-18-72, Cl. 250-43.50r.
Malek, Jack H.; and Dawson, Trevor, to Mattel, Inc. Apparatus for removing foam bodies from molds. 3,672,261, 6-27-72, Cl. 92-137.000.
Malekhanov, Igor Evgenievich: *See—*
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Malekzadeh, Ali Asghar, to Master Specialties Company. Lamp failure detection circuit. 3,671,955, 6-20-72, Cl. 340-251.000.
Malen, Charles; and Laubie, Michel, to Science Union et Cie, Societe Francaise de Recherche Medicale. Dibenxo (c,f) thiazepine (1,2)compounds. 3,657,276, 4-18-72, Cl. 260-327.
Malen, Charles; and Pascaud, Xavier, to Societe en nom collectif "Science Union et Cie, Societe Francaise de Recherche Medicale". Compositions and method for treating gastroduodenal ulcer and gastric hypersecretion with 2-pylidyl thioacetamide or a salthereof. 3,681,499, 8-1-72, Cl. 424-263.000.
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Malen, Charles; Danree, Bernard; and Laubie, Michel, to Science Union et Cie Societe Francaise de Recherche Medicale. Benzothiopyran compounds. 3,705,167, 12-5-72, Cl. 260-293.570.
Malesci S.A.S. Istituto Farmacobiologico: *See—*
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Malett, N. William, to Ford Motor Company. Control valve for positive crankcase ventilation system. 3,678,910, 7-25-72, Cl. 123-119.00b.
Maley, Gerald A.: *See—*
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Ho, Irving T.; Maley, Gerald A.; and Waxman, Ronald, 3,662,351.
Maley, Gerald A.; and Walsh, James L., to International Business Machines Corporation. Ternary read-only memory. 3,656,117, 4-11-72, Cl. 340-173.
Maley, Gerald A.; and Walsh, James L., to International Business Machines Corporation. Interchanger 1 circuits. 3,660,677, 5-2-72, Cl. 307-209.000.
Maley, Gerald A.; and Walsh, James L., to International Business Machines Corporation. Basic ternary logic circuits. 3,660,678, 5-2-72, Cl. 307-209.
Maley, Gerald A.; and Walsh, James L., to International Business Machines Corporation. Ternary latches. 3,671,763, 6-20-72, Cl. 307-209.000.
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Malhotra, Virender Nath, to Lever Brothers Company. Detergent active materials. 3,696,143, 10-3-72, Cl. 260-513.00r.
Malia, Michael W., to Amerace Esna Corporation. Connector construction for high voltage shielded cables. 3,656,084, 4-11-72, Cl. 339-60.
Malies, Arthur M. Drapery master carrier. 3,663,988, 5-23-72, Cl. 16-87.200.
Malifaud, Pierre. Optical projector device. 3,676,667, 7-11-72, Cl. 240-41.35r.
Maliga, Joachim: *See—*
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Malinin, Theodore. Treatment of distilled alcoholic liquors. 3,698,913, 10-17-72, Cl. 99-34.000.
Malinowski, Jordan P., to Institut po Phiskohimia pri Bulgarska akademia na Naukite. Production of photographic materials with photosensitive compounds other than silver halides. 3,658,540, 4-25-72, Cl. 96-88.
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Malitschek, Otto: *See—*
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Mallan, Jean Margaret; and Kay, Edward Leo, to Firestone Tire & Rubber Company, The. Production of lactones. 3,660,433, 5-2-72, Cl. 260-343.
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Mallick, George T., Jr.; Carr, Walter J., Jr; and Miller, Robert C., to Westinghouse Electric Corporation. Multiple frequency magnetic field technique for differentiating between classes of metal objects. 3,686,564, 8-22-72, Cl. 324-41.000.
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Mallory, Glenn O., to Allied Research Products, Inc. Method of electroless deposition of a substrate and sensitizing solution therefor. 3,674,550, 7-4-72, Cl. 117-212.000.
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Malloy, John F.; and Seiler, Charles J., to Norton Company. Coated abrasive belt overlap joint. 3,637,359, 1-25-72, Cl. 51-298.
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Malm, Donald Irwin; Christie, Craig Eugene; and Rojohn, Claire Eugene, to Deere & Company. Vibration isolated unitary cab and control console construction for a tractor. 3,656,799, 4-18-72, Cl. 296-35.
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Malm, Robert E., to Northrop Corporation. Signal frequency synthesizer. 3,671,871, 6-20-72, Cl. 328-25.000.
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Malmstrom, Sven Erik, to Forsheda Gummifabrik AB. Seal between two parts, one of which is rotatable in relation to the other. 3,685,838, 8-22-72, Cl. 277-25.000.
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Malmstrom, Sven-Erik, to Forsheda Gummifabrik Aktiebolag. Seal between rotating-parts, movement of which is relative to each other. 3,664,675, 5-23-72, Cl. 277-84.
Malnar, Leon; and Meilleroux, Jean-Louis, to Thomson-CSF. Diffused light detecting cell for and in optical pumping apparatus. 3,651,394, 3-21-72, Cl. 324-.5.
Malon, Jean Pierre; and Adde, Joseph W., to Compagnie des Freins et Signaux Westinghouse and Societe Inter-Elec. Means for controlling and regulating the braking of vehicles. 3,682,512, 8-8-72, Cl. 303-20.000.
Malon, Jean-Pierre, to Ste Inter-Elec. Apparatus for driving a vehicle. 3,643,090, 2-15-72, Cl. 246-182.
Malone, Bernard: *See—*
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Malone, Carl E., to AFA Corporation of Florida, The. Liquid dispensing apparatus. 3,650,473, 3-21-72, Cl. 239-333.
Malone, Charles H., to Malone, Charles H., & Company, Inc. Venetian blind. 3,645,317, 2-29-72, Cl. 160-168.
Malone, Charles H., & Company, Inc.: *See—*
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Malone, Jerome Earl: *See—*
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Malone, Joseph G.; and Smith, H. Morton, to Industrial Insulations, Inc. Heat insulating assembly. 3,687,170, 8-29-72, Cl. 138-143.000.
Malone, Lee B.: *See—*
Vaughan, Otha H.; and Malone, Lee B., 3,667,044.
Malone, Martin: *See—*
Reenstray, John E.; and Malone, Martin, 3,699,305.
Malone, William T., to Halliburton Company. Method of increasing well productivity. 3,687,203, 8-29-72, Cl. 166-308.000.
Maloney, Bernard Allen: *See—*
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Maloney, Gerald P. Diverter valve. 3,636,980, 1-25-72, Cl. 137-625.44.
Maloney, John P. Jig panel for airfoil. 3,643,900, 2-22-72, Cl. 244-123.
Maloney, Patrick Martin: *See—*
Crow, Herman L.; Lu Conic, Andrew; Maloney, Patrick Martin; and Bluem, Gary Raymond, 3,643,048.
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Maloney, Thomas C., to Burroughs Corporation. Multiple cathode display tube. 3,651,364, 3-21-72, Cl. 313-109.5.
Maloney, Thomas O.: *See—*
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Maloney, William T., to Sperry Rand Corporation. Lensless optical recognition system. 3,670,305, 6-13-72, Cl. 340-146.30p.
Maloney, William Thomas: *See—*
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Maloney-Crawford Tank Corporation: *See—*
Gravis, Charles K., III; Wood, Harold S.; and Hodgson, Robert A., 3,648,434.
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Maloon, Richard A.: *See—*
Tufts, Donald W.; Burt, Ralph E.; Davis, Victor I., Jr.; Queenan, James F.; Maloon, Richard A.; and Waterman, David W., 3,696,235.
Malott, Richard C. Resistance locking cylinder. 3,664,236, 5-23-72, Cl. 92-26.
Malouf, Emil Edward: *See—*
Spedden, Henry Rush; and Malouf, Emil Edward, 3,634,071.
Spedden, Henry Rush; and Malouf, Emil Edward, 3,639,003.
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Malpas, Charles Henry. Bulk containers. 3,642,172, 2-15-72, Cl. 222-90.
Malpassi, Alberto. Gasoline pressure regulator device. 3,695,438, 10-3-72, Cl. 210-137.000.
Malsbary Manufacturing Company: *See—*
Hurst, Mowatt M., 3,650,281.
Malsky, Herbert, to Massachusetts Institute of Technology. Method of and apparatus for photoprinting conductor patterns on the curved surfaces of transducers. 3,694,080, 9-26-72, Cl. 355-86.000.
Malster, Robert L., to Polaroid Corporation. Laminations. 3,647,442, 3-7-72, Cl. 96-29.
Maltais, Frederick Jean, to AMP Incorporated. Connector and assembly for baseless electric light bulbs. 3,633,149, 1-4-72, Cl. 339-52.
Maltby, Frank Vincent, to Bata Shoe Company, Inc. Method for the production of footwear or parts thereof. 3,642,973, 2-15-72, Cl. 264-244.
Maltby, Frank Vincent, to Bata Shoe Company, Inc. Manufacture of footwear. 3,676,542, 7-11-72, Cl. 264-244.000.
Maltby, Frederick L., to Drexelbrook Controls, Inc. Capacitance-type monitoring apparatus. 3,665,301, 5-23-72, Cl. 324-61.
Maltby, Frederick L., to Drexelbrook Controls, Inc. RF system for measuring the level of materials. 3,706,980, 12-19-72, Cl. 340-244.00c.
Maltby, Jack, to Davy and United Engineering Company Limited. Rolling mills. 3,667,272, 6-6-72, Cl. 72-245.000.
Maltenfort, Martin S. Atmospheric pressure dyeboarding process. 3,634,014, 1-11-72, Cl. 8-18.
Malter, Lewis: *See—*
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Maltman, William Ramsey: *See—*
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Maltsev, Albert Alexandrovich: *See—*
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Malueg, Richard Milton: *See—*
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Malutich, William J., to Continental Rubber Works. Flashless compression mold. 3,679,345, 7-25-72, Cl. 425-406.000.
Maly, George P.: *See—*
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Maly, George P.; and Robinson, Joel P., to Union Oil Company of California. Apparatus for gravel packing inclined wells. 3,637,010, 1-25-72, Cl. 166-51.
Malyshev, Sergei Ivanovich: *See—*
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Malz, Ute K., to Whirlpool Corporation. Vacuum cleaner. 3,683,599, 8-15-72, Cl. 55-376.000.
Malzahn, Ronald C.: *See—*
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Mama, Hiromichi: *See—*
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Mamada, Satosi: *See—*
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Mamalis, Patrick, to Vitamins Limited. 2,2-Dialkyl-4,6-diamino-1,2-dihydro-1,3,5-triazines. 3,632,583, 1-4-72, Cl. 260-249.9.
Mamalis, Patrick. Composition and method for treating malaria. 3,632,762, 1-4-72, Cl. 424-249.
Mamalis, Patrick, to Vitamins Limited. 4,6-Diamino-1,2-dihydro-aryloxy-1,3,5-triazines. 3,660,394, 5-2-72, Cl. 260-249.9.
Mamalis, Patrick, to Beecham Group Limited. Di-hydro-s-triazines. 3,666,757, 5-30-72, Cl. 260-249.9.

Mamalis, Patrick; and Outred, Dennis James, to Bucham Group Limited. Di-hydro triazine derivatives. 3,682,912, 8-8-72, Cl. 260-249.900.

Mamino, Joseph, to Xerox Corporation. Selective removal of liquid developer in a cyclical electrophotographic process. 3,656,948, 4-18-72, Cl. 96-1.4.

Mamiya, Shigeo; and Yajima, Ryoichiro, to Kabushiki Kaisha Saginomiya Seisakusho. Aging-proof humidity sensing element and method for the production thereof. 3,671,913, 6-20-72, Cl. 338-35.000.

Mammach, Peter: *See—*
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Mammino, Joseph: *See—*
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Mammino, Joseph; and Ferguson, Robert M., to Xerox Corporation. Phthalocyamine photoconductive elements containing multiple binder materials. 3,640,710, 2-8-72, Cl. 96-1.5.

Mammino, Joseph, to Xerox Corporation. Novolak resins in deformation imaging. 3,672,886, 6-27-72, Cl. 96-1.100.

Mammino, Joseph; and Jvirblis, Gail D., to Xerox Corporation. Photoelectrosolographic imaging process. 3,677,750, 7-18-72, Cl. 96-1.000.

Mammino, Joseph; and Amidon, Alan B., to Xerox Corporation. Developing electrostatic images employing fatty acid esters to inhibit developer build-up. 3,692,520, 9-19-72, Cl. 96-1.200.

Mammino, Joseph, to Xerox Corporation. Method of cleaning residual liquid developer from electrophotographic plates. 3,697,263, 10-10-72, Cl. 96-1.400.

Mamok, Herbert; Hejl, Rainer; and Korner, Joachim, to Akzona Incorporated. Elastomerically-reinforced polyamide strapping and method. 3,689,354, 9-5-72, Cl. 161-92.000.

Mamrose, Wesley. Dishwashing apparatus. 3,669,132, 6-13-72, Cl. 134-58.00d.

Mamula, Milan: *See—*
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Mamuzic, Rastko I.: *See—*
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Thomas, Robert M.; and Mamuzic, Rastko I., 3,663,619.

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Manabe, Noboru, to Alps Electric Co., Ltd. Contact switch. 3,646,300, 2-29-72, Cl. 200-166.

Manabe, Seiichiro: *See—*
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Manago, Seiji: *See—*
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Manahan, Roderick David; and Richter, Virgil John, to Colgate-Palmolive Company. Dentifrice preparation. 3,634,585, 1-11-72, Cl. 424-52.

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Aono, Shigeo; and Manaka, Nobuzi, 3,699,932.

Manara, Angelo Teodoro, to Carlo Tassara S.p.A. Stabilimenti Elettrosiderurgici. Apparatus for the mixing and distribution of granulated materials. 3,701,511, 10-31-72, Cl. 259-3.000.

Manasevit, Harold M., to North American Rockwell Corporation. Composite, method for growth of 11b-VIa compounds on substrates, and process for making composition for the compounds. 3,664,866, 5-23-72, Cl. 117-201.000.

Manasian, Arthur E.; Papenfuss, Carl J.; and Piekarski, William F., to Ludlow Corporation. Cotton bale cover. 3,674,139, 7-4-72, Cl. 206-83.500.

Manatt, Stanley L.: *See—*
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Manber, Solomon, to Alphanumeric, Incorporated. Single line scan pattern generator. 3,692,935, 9-19-72, Cl. 178-15.000.

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Mancebo, Lloyd: *See—*
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Mancebo, Lloyd, to United States of America, Atomic Energy Commission. Electrode structure for controlling electron flow with high transmission efficiency. 3,660,712, 5-2-72, Cl. 313-307.

Manceri, John, to Judson Jewelry Corporation. Combined watch and continuous watch band. 3,672,157, 6-27-72, Cl. 58-88.00w.

Manchanda, Krishan D.: *See—*
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Mancini, Carlo: *See—*
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Mancini, Lloyd: *See—*
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Mancini, Lloyd, to Berg Electronics, Inc. Circuit board eyelet. 3,654,583, 4-4-72, Cl. 339-17.

Mancini, Ronald A., to Corning Glass Works. Feedback controlled photosensitive object detecting system. 3,639,768, 2-1-72, Cl. 250-205.

Mancini, Ronald Alfred: *See—*
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Mancini, Ronald Alfred, to RCA Corporation. Crystal controlled digital logic gate oscillator. 3,699,476, 10-17-72, Cl. 331-116.00r.

Mancino, John J., to Hitemp Wires, Inc. Multi-strand electrical conductor. 3,683,103, 8-8-72, Cl. 174-119.00c.

Mancioli, Luciano. Device for producing an infused liquid, particularly coffee. 3,638,555, 2-1-72, Cl. 99-303.

Mancioli, Luciano. Beverage infusion apparatus, for example coffee. 3,670,641, 6-20-72, Cl. 99-293.000.

Manco Manufacturing Co.: *See—*
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Mancuso, Henry. Caddy for holding pipe cleaners. 3,672,374, 6-27-72, Cl. 131-243.000.

Mancuso, John J.; Litchult, Theodore F.; and Dolezal, Foods M., to General Food Corporation. Process for making prelightened coffee powder. 3,653,911, 4-4-72, Cl. 99-71.

Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, to Rhone-Poulenc S.A. Antibiotic prepared by cultivation of streptomyces roseopullatus and designated 17967 RP. 3,657,420, 4-18-72, Cl. 424-121.

Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, to Rhone-Poulenc S.A. Antibiotic 8036 R.P. and process for the production thereof. 3,658,987, 4-25-72, Cl. 424-118.

Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, to Rhone-Poulenc S.A. Antibiotic 18.631 RP. 3,682,886, 8-8-72, Cl. 260-210.0ab.

Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, to Rhone-Poulenc S.A. Antibiotic 11837 R.P. and process for its manufacture using streptomyces viridans. 3,686,396, 8-22-72, Cl. 424-118.000.

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Mandel, Louis, to United States of America, Navy. Klystron automatic tube tester. 3,641,428, 2-8-72, Cl. 324-24.

Mandel, Mark. Rainbow kaleidoscope. 3,674,333, 7-4-72, Cl. 350-5.000.

Mandelkow, Dietrich; and Werner, Hugo, to Knapsack Aktiengesellschaft. Cleansing process. 3,645,789, 2-29-72, Cl. 134-2.

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Mander, Robert J.; Ramm, Duane E.; and Simms, Robert J., to Owens-Illinois, Inc. Tube storage rack. 3,643,812, 2-22-72, Cl. 211-74.

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Mandineau, Daniel Paul Henri; Mourey, Michele Yvonne Christiane; Pizzini, Georges Philippe Henri; and Poulain, Jacques Constant, to Ecole Nationale Superieure des Mines de Paris and Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Tungstn boride-containing articles and production thereof. 3,668,017, 6-6-72, Cl. 148-6.300.

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Mandock, Richard F.; and Plambeck, Ronald F., to Protection Controls, Inc. Single-transformer ignition system for multiple gas burners. 3,649,876, 3-14-72, Cl. 317-96.

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Mandon, Jean-Pierre: *See—*
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Mandorf, Victor, Jr.; and Fenish, Robert G., to Union Carbide Corporation. Use of expanded anisotropic graphite as multi-cavity mold for hot pressing. 3,632,708, 1-4-72, Cl. 264-58.
Mandorf, Victor, Jr.; and Montgomery, Lionel C., to Union Carbide Corporation. High purity hot pressed boron nitride. 3,660,027, 5-2-72, Cl. 23-191.
Mandorf, Victor, Jr.; and Montgomery, Lionel Clayton, to Union Carbide Corporation. Composite article containing high purity hot pressed boron nitride. 3,673,118, 6-27-72, Cl. 252-520.000.
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Mandroian, Harold, to Atek Industries, Inc. Electrolytic recovery cell. 3,702,814, 11-14-72, Cl. 204-237.000.
Mandusky, Jack C.: *See—*
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Manecke, Georg: *See—*
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Manero, Anthony Frank. Intermediate clutch alignment tool. 3,686,739, 8-29-72, Cl. 29-274.000.
Manes, Dewey K.; Farley, David L.; and Wray, Gary Q., to Halliburton Company. Method and apparatus for testing offshore well. 3,646,995, 3-7-72, Cl. 166-.5.
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Manethou, Jean, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. High-frequency starting device for an electric welding arc. 3,646,310, 2-29-72, Cl. 219-135.
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Manfredi, Frank A. System for reducing and controlling exhaust emissions from internal combustion engines. 3,640,254, 2-8-72, Cl. 123-119.
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Mange, Franklin E.; Buriks, Rudolf S.; and Quinlan, Patrick M., to Petrolite Corporation. Demulsification with linear polymeric phosphorus-containing esters. 3,657,145, 4-18-72, Cl. 252-345.
Mangel, Leverne E.: *See—*
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Manger, Josef W. Push-pull moving coil loudspeaker having electromagnetic centering means. 3,686,446, 8-22-72, Cl. 179-115.5dv.
Manger, Werner, to SKF Kugellagerfabriken GmbH. Roller bearings. 3,656,825, 4-18-72, Cl. 308-213.
Manghisi, Elso, to Istituto Luso Farmaco d'Italia S.r.L. Esters of N-arylanthranilic acids with monosubstituted gem-diols. 3,642,864, 2-15-72, Cl. 260-471.
Mangin, Jean-Pierre, to Regie Nationale des Usines Renault and Automobiles Peugeot. Induction air temperature regulators. 3,673,995, 7-4-72, Cl. 123-122.00d.
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Pommer, Horst; Mueller, Herbert; Mangold, Dietrich; and Palm, Christof, 3,637,817.
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Mangold, Edward J., to Skagit Corporation. Self leveling spreader frame. 3,675,960, 7-11-72, Cl. 294-81.0sf.
Mangold, James, to Societe Anonyme D.B.A. Hydraulic antiskid braking system. 3,674,317, 7-4-72, Cl. 303-21.00f.
Mangold, Robert T., to Nosco Plastics, Incorporated. Pallet. 3,636,889, 1-25-72, Cl. 108-53.
Mangold, Robert T., to Nosco Plastics, Incorporated. Pallet. 3,683,821, 8-15-72, Cl. 108-53.000.
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Manheim, Jay. Cassette container. 3,642,337, 2-15-72, Cl. 312-111.
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Maniaci, Philip J.; and McKinsey, Byron E., to Arcata Graphics. Conveyor system. 3,693,486, 9-26-72, Cl. 83-88.000.
Maniaci, Theodore, to Colgate-Palmolive Company. Labeling machine. 3,642,556, 2-15-72, Cl. 156-556.
Maniar, Prakash N., to Burroughs Corporation. Ink transfer member. 3,671,287, 6-20-72, Cl. 117-36.400.
Manicki, Gert L., to Standard Kollsman Industries Inc. Solid state tuned UHF television tuner. 3,643,168, 2-15-72, Cl. 325-459.
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Maniero, Daniel A.; and Wolf, Charles B., to Westinghouse Electric Corporation. Production of acetylene with an arc heater. 3,697,612, 10-10-72, Cl. 260-679.00r.
Manilla, Charles E.; Honaker, Harold H.; and Gothard, David O., to International Nickel Company, Inc., The. Composite metal articles. 3,652,235, 3-28-72, Cl. 29-194.
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Manion, Jean P.; and Davies, Daniel J., to Allis-Chalmers Manufacturing Company. Process for increasing water repellency of cotton cloth. 3,674,667, 7-4-72, Cl. 204-165.000.
Manion, Peter M. Locking bar for horizontally sliding building closure assemblies. 3,637,247, 1-25-72, Cl. 292-262.
Maniotes, John: *See—*
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Manizza, Guelfo A., to Continental Can Company, Inc. Carton with web lock. 3,655,115, 4-11-72, Cl. 229-31.
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Manjikian, Serop; and Foley, Michael I., to United States of America, Interior. Semipermeable membranes, their use and method for preparation wherein the membranes are stretched during the initial gelation period. 3,657,115, 4-18-72, Cl. 210-23.
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Manka, Dan Paul, to Jones & Laughlin Steel Corporation. Method of operating gas analysis apparatus. 3,673,854, 7-4-72, Cl. 73-23.000.
Mankau, Werner; and Duddey, Werner, to Olympia Werke AG. Platen turning knob with a paper edge indicator scale. 3,658,165, 4-25-72, Cl. 197-189.000.
Manker, Loretta. Supportive device for stomach or gastric tube. 3,648,703, 3-14-72, Cl. 128-348.
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Mankovitz, Roy J., to Teledyne, Inc. Zero voltage switching AC relay circuit. 3,648,075, 3-7-72, Cl. 307-252.
Mankovitz, Roy J., to Teledyne, Inc. Current limiter responsive to current flow and temperature rise. 3,691,426, 9-12-72, Cl. 317-23.000.
Manley, Harold J.; and Shaffer, Harry L., to GTE Sylvania Incorporated. Method and apparatus for signal bandwidth compression utilizing the fourier transform of the logarithm of the frequency spectrum magnitude. 3,681,530, 8-1-72, Cl. 179-1.0sa.
Manly, Donald G.: *See—*
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Mann, Arthur S. Camera including sequential exposure apparatus for a film plate. 3,667,364, 6-6-72, Cl. 95-37.000.
Mann, Charles G., to Weltronic Company. Production monitoring system. 3,638,191, 1-25-72, Cl. 340-163.
Mann, Charles Trevor: *See—*
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Mann, Freeman W.: *See—*
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Mann, Leonard E.: *See—*
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Mann, Leonard J., to General Motors Corporation. Turbulence control. 3,645,110, 2-29-72, Cl. 62-217.
Mann, Leonard J., to General Motors Corporation. Plastic refrigerator with reinforcing framework. 3,653,532, 4-4-72, Cl. 220-9.
Mann, Matthew Kenneth; and Rushworth, Norman, to Plastex Limited. Faller bars. 3,651,542, 3-28-72, Cl. 19-129.
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Mann, Robert C. Ankle support providing high bracing strength. 3,674,023, 7-4-72, Cl. 128-166.000.
Mann, Robert L., to Resinoid Engineering Corporation. Arbor press power source. 3,640,068, 2-8-72, Cl. 60-52.
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Mann, Thomas A. Automobile anti-theft device. 3,688,257, 8-29-72, Cl. 340-64.000.
Mann, William W., to Sperry Rand Corporation. Hinged unloading auger for grinder-mixer. 3,638,816, 2-1-72, Cl. 214-521.
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Mannheimer, Hans S. Reaction products of certain cationic compounds with anionic compounds, compositions containing same and methods for preparing same. 3,661,945, 5-9-72, Cl. 260-401.
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Manning, Bernard; and Nelson, Sigurd E., to Nuclear Associates, Inc. Fluid irradiator and process for its manufacture. 3,705,985, 12-12-72, Cl. 250-106.
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Manning, Harold E., to Petro-Tex Chemical Corporation. Oxidative dehydrogenation utilizing manganese ferrite. 3,671,606, 6-20-72, Cl. 260-680.00e.
Manning, Harold E.; Woskow, Marvin Z.; and Christmann, Harold F., to Petro-Tex Chemical Corporation. Modification of oxidative dehydrogenation catalysts. 3,702,875, 11-14-72, Cl. 260-680.00e.
Manning, James P., to Republic Molding Corporation. Molded furniture. 3,687,092, 8-29-72, Cl. 108-156.000.
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Manning, Maurice, to Ohio Medical College, The. (4-Threonine)-mesotocin. 3,700,652, 10-24-72, Cl. 260-112.500.
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Manning, Robert E., to Sandoz-Wander, Inc. 2-(2-Imidazolin-2-yl)-methylthis pyridine-n-oxide and derivatives thereof. 3,635,995, 1-18-72, Cl. 260-294.8.
Manning, Robert E., to Sandoz-Wander, Inc. Phenyl and substituted phenylsulfonylallyl amines and substituted amines. 3,644,343, 2-22-72, Cl. 260-240.
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Manning, Robert E., to Sandoz-Wander, Inc. Certain 2,3,5,6-tetrahydroimidazo [2,1-b] thiazoles. 3,660,418, 5-2-72, Cl. 260-306.7.
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Mannion, Gerald F.; and Mannion, James R. Flow resistance equalizer for liquid circulation system. 3,668,822, 6-13-72, Cl. 55-159.000.
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Manoogian, Alex, to Masco Corporation. Faucet valve. 3,700,210, 10-24-72, Cl. 251-304.000.
Manoogian, Alex, to Masco Corporation. Faucet valve. 3,700,211, 10-24-72, Cl. 251-304.000.
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Mansfield, Michael Patrick; and Prangnell, Howard John, to Cossor, A. C., Limited. Demodulating apparatus. 3,691,467, 9-12-72, Cl. 325-363.000.
Mansfield, Peter B. Implantable tissue stimulator with a porous anchoring enclosure. 3,683,933, 8-15-72, Cl. 128-419.00p.
Mansfield, Richard C.; and Rainey, James L., to Rohm & Haas Company. Alkylene oxide adducts of alkyl oligosaccharides and their mixtures with alkylene oxide adducts of both alkyl glucosides and alkanols. 3,640,998, 2-8-72, Cl. 260-210.
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Mansson, Bo Gustav Emil. Apparatus for separating solids in a whirling gaseous stream. 3,643,800, 2-22-72, Cl. 209-144.
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Mao, Gerard, to Etablissements A. Chomarat & Cie. Process for reinforcing polyvinyl chloride mechanical foams, and imitation leather made from such foams. 3,637,456, 1-25-72, Cl. 161-64.
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Marand, Jean, to Ciba-Geigy Corporation. Non pressurized product dispensing system. 3,670,965, 6-20-72, Cl. 239-308.000.
Marand, Jean, to Ciba-Geigy Corporation. Multi-component product dispenser. 3,672,544, 6-27-72, Cl. 222-94.000.
Marand, Jean, to Ciba-Geigy Corporation. Air pressure operated dispenser. 3,672,545, 6-27-72, Cl. 222-193.000.
Marand, Jean, to Ciba-Geigy Corporation. One piece coupler-aspirator-nozzle. 3,674,212, 7-4-72, Cl. 239-308.000.
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Marantz, Laurence B.; and Greenbaum, Michael A., to CCI Aerospace Corporation. Recirculation dialsate system for use with an artificial kidney machine. 3,669,880, 6-13-72, Cl. 210-22.000.
Marantz, Paul M., to Century Lighting, Inc. Lighting fixture for illuminating planar surfaces. 3,643,089, 2-15-72, Cl. 240-78.
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Marcatili, Enrique Alfredo Jose, to Bell Telephone Laboratories, Incorporated. Multimode waveguide. 3,666,348, 5-30-72, Cl. 350-96.0wg.
Marcatili, Enrique Alfredo Jose, to Bell Telephone Laboratories, Incorporated. Beam coupling to and from thin film waveguide. 3,674,337, 7-4-72, Cl. 350-96.0wg.
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Marchetti, John W.; and Kiser, Herbert H., to Budd Company, The. Automatic battery charger circuit. 3,648,189, 3-7-72, Cl. 320-39.
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Marcio, Roger A.; and Winton, Orrin J., to Avco Corporation. Field test unit for a gas turbine fuel injection system. 3,680,371, 8-1-72, Cl. 73-119.00a.
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Marcus, Ira R., to United States of America, Army. Coded tape and open contact sensing circuit. 3,666,925, 5-30-72, Cl. 235-61.11.
Marcus, Konrad H.: *See*—
Zwiep, Theodore C.; Marcus, Konrad H.; and Weits, Ferdinand, 3,657,771.

Marcus, Michael Jay, to Bell Telephone Laboratories, Incorporated. Time division switching system with time slot interchange. 3,700,819, 10-24-72, Cl. 179-15.0aq.
Marcus, Robert Boris: *See—*
Chang, Chuas Chung; Marcus, Robert Boris; and Wagner, Richard Siegfried, 3,687,745.
Marcus, Sheldon H., to Standard Oil Company. Carboxy-bearing adduct polyol compositions containing tetrabromophthalic anhydride. 3,642,646, 2-15-72, Cl. 252-182.
Marcy, Raymond, to Thomson-CSF. Electron-optical image tracing systems, particularly for use with laser beams. 3,632,205, 1-4-72, Cl. 355-53.
Marcy, Raymond; Bouygues, Jean; and Lacombat, Michel, to Thomson-CSF. Systems for accurately positioning an object in a plane by means of translatory movements. 3,692,413, 9-19-72, Cl. 356-106.000.
Marcyan, Walter. Single station multi-purpose body exercising machine. 3,635,472, 1-18-72, Cl. 272-81.
Mard, Kenneth C. Vibration isolation system. 3,690,607, 9-12-72, Cl. 248-20.000.
Marden Anstalt: *See—*
Wadsted, Bengt, 3,684,476.
Mardon, Austin; and Nielsen, Robert N., Jr., to American Nucleonics Corporation. Tunnel diode movement detector. 3,670,328, 6-13-72, Cl. 343-8.
Mare, Arrigo. Refractory brick having oblique surface. 3,635,459, 1-18-72, Cl. 266-43.
Marechal, Claude M.: *See—*
Audran, Roger G. L.; Dostes, Clude G.; and Marechal, Claude M., 3,687,677.
Marek, Ludwig: *See—*
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Marek, Miroslav; Pecka, Jan; Chmelir, Miroslav; and Roosova, Milena, to Ceskoslovenska akademie ved. Polymerization of isobutylene. 3,639,661, 2-1-72, Cl. 260-94.8.
Maremont Corporation: *See—*
Anderson, Gordon C.; and Page, John D., 3,640,062.
Harmon, Albert D.; Anderson, Gordon C.; and Van Deusen, George S., 3,651,628.
McNally, Sellers B., 3,674,290.
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Mares, Jindrich: *See—*
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Mares, Vladimir, to Ceskoslovensky uranovy prumysl, oborovy podnik. Arrangement for slide-tracking of a boring machine in mines with a limited profile. 3,659,656, 5-2-72, Cl. 173-23.
Mares, Vladimir, to Ceskoslovensky uranovy prumysl oborovy podnik. Lifting prop for a transfer conveyor. 3,664,486, 5-23-72, Cl. 198-126.
Maresca, Arcangelo; and Ancilletta, Giuseppe, to Sincat-Societa Industriale Catanese S.p.A. Process and apparatus for treating particalized substances in a fluidized bed. 3,631,608, 1-4-72, Cl. 34-10.
Maresca, Neal J.; and Winton, Orrin J., to Avco Corporation. Field test unit for a gas turbine fuel injection system. 3,678,743, 7-25-72, Cl. 73-119.00a.
Maretka, Faye M. Pocket organizer for golfers. 3,669,250, 6-13-72, Cl. 206-38.00r.
Marette, Ralph Thomas, to Hansen Manufacturing Company, The. Coupling mechanism. 3,664,375, 5-23-72, Cl. 137-614.040.
Marez, John; and Hatch, Alan R., to United States of America, Navy. Film insertion and removal device for use with a cathode ray tube. 3,670,102, 6-13-72, Cl. 178-7.800.
Marfey, Peter: *See—*
Tangen, Oddvar; Berman, Herbert J.; and Marfey, Peter, 3,706,661.
Marforio, Nerino, to S.p.A. Virginio Rimoldi & Co. Sewing machine device adapted for applying closed tubular strapping to fabric edges. 3,658,020, 4-25-72, Cl. 112-147.000.
Marforio, Nerino, to Virginio Rimoldi & Co., S.p.A. Presser foot deflecter of a fabric edge in a sewing machine. 3,669,049, 6-13-72, Cl. 112-150.000.
Margala, Charles E. Easily serviced telescoping cylinder. 3,644,983, 2-29-72, Cl. 29-401.
Margarinbolaget AB: *See—*
Wilton, Inga Elna Maria; and Bauren, Karl Lennart Emanuel, 3,682,656.
Margavio, Matthew F.: *See—*
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Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., 3,702,754.
Margen, Peter Heinrich Erwin, to Aktiebolaget Atomenergi. Method and means for generating electricity and vaporising a liquid in a thermal power station. 3,681,920, 8-8-72, Cl. 60-67.000.
Margerum, Edwin O.: *See—*
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Rowland-Hill, Edward William; and Margerum, Edwin O., 3,631,862.
Margerum, John D., to Hughes Aircraft Company. Structures for photochromic compounds. 3,649,549, 3-14-72, Cl. 252-300.
Margerum, John D.; and Jacobson, Alexander D., to Hughes Aircraft Company. Method of hologram recording. 3,694,218, 9-26-72, Cl. 96-35.100.
Margetts, Hugh Grenville; and Habgood, Gordon Alfred, to Girling Limited. Internal shoe drum brakes. 3,661,233, 5-9-72, Cl. 188-106.
Marggraf, Kurt A.; and Metzger, Ernest, to United States of America, Air Force. Two axis gas bearing accelerometer. 3,672,232, 6-27-72, Cl. 73-516.00r.
Margolien, David H., to Geometron Company, Inc. Cutting elongated stock. 3,686,990, 8-29-72, Cl. 83-409.000.
Margot, Alfred: *See—*
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Margrain, Pierre; and Lacroux, Gerard, to Etablissements E. Ragonot. Method of making low inertia rotor for dynamo electric machines. 3,694,907, 10-3-72, Cl. 29-598.000.
Margrave, John L.; Badachhape, Ramachandra B.; Wood, James L.; and Lagow, Richard J., to R. I. Patents, Inc. Superstoichlometric carbon monofluoride and methods for preparing stable carbon monoflurides of various stoichlometries. 3,674,432, 7-4-72, Cl. 23-05.000.
Margulies, Howard: *See—*
Miller, Bernard; and Margulies, Howard, 3,636,205.
Miller, Bernard; and Margulies, Howard, 3,644,601.
Margulies, Marcel Hidore, to Bridal AG. Method for manufacturing preformed eye-lines for eye-lids. 3,681,178, 8-1-72, Cl. 156-584.000.
Margulis, Harry; and Miles, William B., to Addressograph-Multigraph Corporation. High speed photoelectrostatic copying machine. 3,655,283, 4-11-72, Cl. 355-14.
Margulis, Rajko R.: *See—*
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Marguth, Gilbert R., Jr., to Livermore Data Systems, Inc. Acoustical data set/terminal tester. 3,684,832, 8-15-72, Cl. 179-2.0dp.
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Mariani, Brunello; Giuzzi, Alberto; and Tisselli, Eugenio, to Ferrania, S.p.A. Monoazo compounds containing a pyrazolone. 3,657,216, 4-18-72, Cl. 260-163.
Marich, Steve. Windshield ice scraper. 3,651,572, 3-28-72, Cl. 30-169.
Marichev, Vladimir Petrovich; Slepian, Viktor Iosifovich; Stetsjuk, Nikolai Arsentievich; and Ginzburg, Samuil Borisovich. Dragline boom. 3,684,245, 8-15-72, Cl. 254-190.000.
Maricle, Donald Leonard; and Rauhut, Michael McKay, to American Cyanamid Company. Electrochemiluminescent device including one of naphthacene, perylene and 5,6,11,12-tetraphenylnaphthacene in aprotic solvent. 3,654,525, 4-4-72, Cl. 317-230.
Marie, Gerard Joseph Marcel: *See—*
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Marie, Gilbert: *See—*
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Marilleau, Jacques, to Commissariat a l'Energie Atomique. Device for supply voltage pulses. 3,668,415, 6-6-72, Cl. 307-106.000.
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Marimes, Johannes Antonius, to U.S. Philips Corporation. Apparatus for detecting the orientation of the plane of polarisation of a plane-polarised beam of radiation. 3,685,883, 8-22-72, Cl. 350-150.000.
Marin, Gilbert: *See—*
Bakassian, Georges; Marin, Gilbert; and Lefort, Marcel, 3,658,865.
Duffaut, Norbert; Dunogues, Jacques; Calas, Raymond; and Marin, Gilbert, 3,657,302.
Marina Industries, Inc.: *See—*
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Marinaccio, Paul J.; Kelley, Joseph M.; Carrock, Frederick E.; and Allemand, Edward E., to Dart Industries Inc. Additive systems for ABS graft copolymers. 3,637,555, 1-25-72, Cl. 260-23.7.
Marinaccio, Paul Joseph; and Kelley, Joseph Matthew, to Dart Industries, Inc. Method for nucleating alpha-olefin polymers. 3,637,634, 1-25-72, Cl. 260-93.7.
Marinace, Robert C. Double life light bulbs, fuses, and the like. 3,673,534, 6-27-72, Cl. 337-258.000.
Marine Bank and Trust Company, mesne: *See—*
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Marine Colloids, Inc.: *See—*
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Marine Construction & Design Co.: *See—*
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Marine Electro Mechanical, Inc.: *See—*
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Marine Swimming Pool Equipment Co.: *See—*
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Howard, Herbert H., 3,701,427.
Marine Systems, Inc.: *See—*
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Marineck, Borut, to Swiss Aluminum Ltd. Electrolytic process. 3,692,645, 9-19-72, Cl. 204-67.000.
Marinelli, Donald Paul, to RCA Corporation. Method and apparatus for depositing epitaxial semiconductive layers from the liquid phase. 3,692,592, 9-19-72, Cl. 148-172.000.
Marinelli, Joseph A., to City Welding & Manufacturing Co., Inc. Trailer construction. 3,705,732, 12-12-72, Cl. 280-106.00t.
Marinelli, Nicola, to National Cash Register Company, The. Metal fastening coated with pressure-activatable encapsulated sealant system. 3,639,137, 2-1-72, Cl. 117-26.
Mariner, Charlie Dwain. Bottle holder. 3,635,431, 1-18-72, Cl. 248-104.
Marini, Aldo M., to Willcox & Gibbs, Inc. Continuous production dielectric heating apparatus. 3,689,728, 9-5-72, Cl. 219-10.810.
Marini, Lorenzo: *See—*
Buchanan, Wilbert Bernard; and Haws, Leon, 3,704,458.
Marini, Manlio: *See—*
Franco, Simone; Leoni, Alvaro; and Marini, Manlio, 3,694,506.
Marinissen, Jan Philippus Cornelis; and Arnold, Frederik Alexander Nicolaas Gerardus, to U.S. Philips Corporation. Package with carrying handle. 3,662,946, 5-16-72, Cl. 229-52.
Marino, Anthony P.: *See—*
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Marino, Francis C.: *See—*
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Marino, Francis C., to Digitronics Corporation. Error detecting apparatus for a keystroke operated business machine. 3,644,888, 2-22-72, Cl. 340-146.1.
Marino, Francis C., to Digitronics Corporation. Modulator using a harmonic filter. 3,648,195, 3-7-72, Cl. 332-14.
Marino, Francis C.; and Wolf, Edgar, to Digitronics Corporation. Magnetic head with write gap wider than tape and read gap narrower than tape. 3,668,669, 6-6-72, Cl. 340-174.1.
Marino, Frank J. Cargo container. 3,659,641, 5-2-72, Cl. 150-52.
Marino, Frank J.; and Marino, Anthony P., to Marino Systems, Inc. Combination sling and unitizing means. 3,701,559, 10-31-72, Cl. 294-74.000.
Marino, Frank, Jr.: *See—*
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Marino, Joseph: *See—*
Ernick, Frederick G.; Kisinko, Paul M.; Marino, Joseph; and Kannam, Peter J., 3,639,815.
Marino, Michelangelo: *See—*
Garilli, Francesco; and Marino, Michelangelo, 3,675,489.
Marino, Nicholas A. Multi-positionable device for X-ray film cassette. 3,633,028, 1-4-72, Cl. 250-50.
Marino, Patrick John, to Bell Telephone Laboratories, Incorporated. Supervisory circuit for monitoring the formation and termination of interconnections in a time-division switch. 3,705,267, 12-5-72, Cl. 179-15.840.
Marino Systems, Inc.: *See—*
Marino, Frank J.; and Marino, Anthony P., 3,701,559.
Marinoff, George, to Addressograph-Multigraph Corporation. Carriage for embossing machine. 3,648,816, 3-14-72, Cl. 197-6.2.
Marinus, Victor Alois, to Gevaert-Agfa N.V. Testing of a chain link-mechanism. 3,688,557, 9-5-72, Cl. 73-9.000.
Marion, Charles P.; and Reynolds, Blake, to Texaco Development Corporation. Synthesis gas generation. 3,705,108, 12-5-72, Cl. 252-373.000.
Marion Corporation: *See—*
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Marion, Donald L.: *See—*
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Marion, Donald L.; Anderson, Dennis G.; and Strand, Robert C., to Atlantic Richfield Company. Polyvinyl acetate latex white paint base composition containing a dispersant for paint tint colorants. 3,639,325, 2-1-72, Cl. 260-29.6.
Marion, Henri A.: *See—*
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Marion, Henri A.; Orieux, Pierre P.; and Serrano, Francisco M., to Compagnie Francaise des Petroles, Societe Anonyme. Floating torcher with permeable gas conduit for underwater oil fields. 3,652,196, 3-28-72, Cl. 431-202.
Marion, John P., to North American Rockwell Corporation. Spring leaf and method of making. 3,671,030, 6-20-72, Cl. 267-54.000.
Marion Laboratories, Inc.: *See—*
Mathison, Ian William, 3,674,791.
Marion, Thomas E.; and Priborsky, Godfrey M., to Maryland Cup Corporation. Apparatus for feeding heat shrinkable plastic film and capping containers therewith. 3,703,066, 11-21-72, Cl. 53-296.000.
Mariotti, Vittorio: *See—*
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Marjon, Pierre L.: *See—*
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Mark, Alfred J., to Chrysler Corporation. Apparatus and method for preparing piped covering materials. 3,675,289, 7-11-72, Cl. 29-91.000.
Mark, Andre. Centrifugal separator for fibrous material. 3,672,503, 6-27-72, Cl. 209-144.000.
Mark, Clayton, and Company: *See—*
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Mark, Douglas E.: *See—*
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Mark, John G.; and Tickle, Andrew C., to Litton Systems, Inc. Non-volatile direct storage bistable circuit. 3,636,530, 1-18-72, Cl. 340-173.
Mark, John Richard, to Marconi Company, Limited, The. Scanning aerial systems and associated arrangements therefor. 3,707,719, 12-26-72, Cl. 343-100.0sa.
Mark Products, Inc.: *See—*
Evans, John S., Jr.; and Jasper, Leslie L., 3,690,487.
Hazelhurst, Gerald D., 3,696,329.
Mark Systems, Inc.: *See—*
Merrick, Edward V.; and Ahrens, William L., 3,648,589.
Mark, Vennice E. Convertible end table-desk. 3,707,316, 12-26-72, Cl. 312-208.000.
Mark, Walter J. Automotive exhaust filter. 3,633,343, 1-11-72, Cl. 55-316.
Mark-Tex Corporation: *See—*
Andrews, Francis W.; and Sussman, Philip S., 3,633,541.
Andrews, Francis W.; Sussman, Philip S.; and Barlow, Sidney D., 3,678,521.
Markakis, Costas E. Stabilized floating structure. 3,689,953, 9-12-72, Cl. 14-27.000.
Markarian, Mark: *See—*
Puppolo, Henry F.; and Markarian, Mark, 3,654,524.
Markarian, Mark; and Gamari, Francis J., to Sprague Electric Company. Wet electrolytic capacitors. 3,654,523, 4-4-72, Cl. 317-230.
Markarian, Mark; and McDonough, Robert J., to Sprague Electric Company. Capacitor in a sealed metal case. 3,662,236, 5-9-72, Cl. 317-260.
Markarian, Mark, to Sprague Electric Company. Molded cover and vent for electrolytic capacitors. 3,669,302, 6-13-72, Cl. 220-44.00r.
Markart, Ernst, to Sud-Atlas-Werke G.m.b.H. Magnetic tape recorder particularly of the tape cassette type. 3,696,775, 10-10-72, Cl. 116-67.00a.
Marke, Berno-Dieter: *See—*
Gull, Karl-Heinz; and Marke, Berno-Dieter, 3,687,483.
Markel, Arthur L., to Reynolds International, Inc. Method of and apparatus for skimming flotsam from the surface of a body of water. 3,637,080, 1-25-72, Cl. 210-83.
Markel, Arthur L., to Reynolds Submarine Services Corporation. Method of separating fluids having different densities. 3,660,285, 5-2-72, Cl. 210-65.000.
Markel, Richard F., to Superior Graphite Company. Method for high-temperature treatment of petroleum coke. 3,684,446, 8-15-72, Cl. 23-209.300.
Marker, Hannes: *See—*
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Frisch, Hans Otto, 3,682,494.
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Schriewer, Ernst-Richard, 3,656,774.

Marker, Hannes; and Jungkind, Roland, said Jungkind assor. to said Marker, Hannes. Toe iron for safety ski bindings. 3,685,849, 8-22-72, Cl. 280-11.35t.
Marker, Hannes; and Biermann, Peter, to Marker, Hannes. Safety ski binding. 3,689,094, 9-5-72, Cl. 280-11.35c.
Marker, Hannes, to Toe-or heel-holding device for safety ski. bindings. 3,690,690, 9-12-72, Cl. 280-11.35t.
Markert, Franz: *See—*
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Markert, Gerhard; Pennewis, Horst; Ross, Klaus; and Neher, Dieter, to Rohm Gesellschaft mit beschrankter Haftung. Process for preparing solid water-soluble cationic polymers. 3,661,880, 5-9-72, Cl. 260-89.5.
Markert, Juergen; Eckert, Peter; and Della Casa, Angelo, to Ciba-Geigy AG. Sublimatory transfer dyeing with 2-cyano-1,4 diamino anthraquinones. 3,707,346, 12-26-72, Cl. 8-2.500.
Marketers, Inc.: *See—*
Huffman, William W., 3,640,380.
Markevich, John Anthony, to Bell Telephone Laboratories, Incorporated. Reduction of harmonic distortion. 3,701,028, 10-24-72, Cl. 328-167.000.
Markevitch, Bob V.: *See—*
Van Heeckeren, Jacob; Rodal, David R.; and Markevitch, Bob V., 3,697,149.
Markewitz, Wolfgang; and Bolduan, Dieter, to Hunnebeck GmbH. Tunnel formwork. 3,678,693, 7-25-72, Cl. 61-45.00c.
Markey, Everett F.: *See—*
Willems, Donald J.; and Markey, Everett F., 3,693,216.
Markey, Francis J., to General Motors Corporation. Fluid vaporization tester with hot air purge and method. 3,698,236, 10-17-72, Cl. 73-17.00a.
Markey, James F., to Weltronic Company. Analog tens and units timer with source synchronization. 3,660,693, 5-2-72, Cl. 307-293.
Markey, Joseph W., to Cities Service Company. Phosphoric acid process. 3,702,885, 11-14-72, Cl. 23-165.000.
Markey, Roger Franklin Joseph: *See—*
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Markham, Aaron E.; and Adolphson, Carl, to Georgia-Pacific Corporation. Drilling composition and method. 3,686,119, 8-22-72, Cl. 252-8.50c.
Markham, David Rees, to Deere & Company. Cutterhead and shear bar for forage harvesters. 3,635,271, 1-18-72, Cl. 146-117.
Markham, David Rees, to Deere & Company. Method and apparatus for sharpening forage harvester knives. 3,677,316, 7-18-72, Cl. 146-242.000.
Markhart, Albert H.: *See—*
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Marki, Gustav Paul: *See—*
Ebbe, Grace Lakin; and Marki, Gustav Paul, 3,703,610.
Markiewicz, James E.: *See—*
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Markiewicz, Joseph F.: *See—*
Perry, Robert D. O.; and Markiewicz, Joseph F., 3,693,843.
Markin, Joseph: *See—*
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Markin, Joseph; and Sobel, Alan, to Zenith Radio Corporation. Matrix-type image display with light-guide addressing system. 3,700,802, 10-24-72, Cl. 178-7.30d.
Markite Corporation: *See—*
Wormser, Hans H., 3,657,692.
Wormser, Hans H., 3,671,914.
Markle, David A., to Perkin-Elmer Corporation, The. Solar stimulated fluorescent radiation detection method and apparatus. 3,641,344, 2-8-72, Cl. 250-71.
Markley, Charles A.: *See—*
Horvath, James W.; and Markley, Charles A., 3,661,825.
Markley, Finley W., to United States of America, Atomic Energy Commission. Solid filters. 3,661,267, 5-9-72, Cl. 210-510.
Markley, Jeffry V.: *See—*
Ebner, Craig E.; and Markley, Jeffry V., 3,691,546.
Markley, Joseph M., to Robbins & Myers, Inc. Brake means for electric motors. 3,659,686, 5-2-72, Cl. 192-2.
Markley, Roger A.: *See—*
Cory, Terry S.; and Markley, Roger A., 3,696,430.
Cory, Terry S.; and Markley, Roger A., 3,697,999.
Markley, William F.: *See—*
Kimpel, Frank A.; and Markley, William F., 3,650,121.
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Borisov, Konstantin Grigorievich; Markman, Iosif Leibovich; Sitnikov, Leonid Semenovich; and Utyakov, Lev Lazarevich, 3,659,163.
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Markov, Vyacheslav Evgenievich: *See—*
Menchikov, Leonid Petrovich; Kopylov, Kim Ivanovich; Okun, Evsei Lvovich; Smirnov, Vasily Mikhailovich; Gavrikov, Viktor Stepanovich; Fridman, Ilya Davidovich; Markov, Vyacheslav Evgenievich; and Sopin, Alexandr Alexandrovich, 3,651,301.
Markovitz, Mark, to General Electric Company. Borosilicone materials and epoxy resins cured therewith. 3,687,872, 8-29-72, Cl. 260-2.0ec.
Markow, Edward G., to Grumman Aerospace Corporation. Elastic conoid shaped wheel. 3,698,461, 10-17-72, Cl. 152-5.000.
Markow, Elliott W., to Newton Electronic Systems, Inc. Facsimile system for condensing data transmission. 3,632,867, 1-4-72, Cl. 178-6.8.
Markow, Elliott W., to Newton Electronic Systems, Inc. Facsimile system. 3,646,255, 2-29-72, Cl. 178-6.
Markowitz, Isral J. Protective cap for a container. 3,633,789, 1-11-72, Cl. 220-60.
Markowitz, Isral J. Safety cover cap for an aerosol container. 3,655,100, 4-11-72, Cl. 222-182.
Markowitz, Ivan N.: *See—*
Bower, Robert G.; Eveland, Baisel L.; Markowitz, Ivan N.; and Masterson, Earl E., 3,693,967.
Markowitz, Ivan N.; and Cherian, Abraham, to Honeywell Inc. High resolution magnetic clock generator. 3,636,313, 1-18-72, Cl. 235-61.11.
Markowitz, Ivan N.; and Bower, Robert G., to Honeywell Information Systems Inc. Single revolution crank system. 3,668,496, 6-6-72, Cl. 318-466.000.
Markowski, Everett L.: *See—*
Feddersen, Donald W.; and Markowski, Everett L., 3,672,529.
Markowski, Henry J.: *See—*
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Markowski, Stanley J., to United Aircraft Corporation. Shortened afterburner construction for turbine engine. 3,701,255, 10-31-72, Cl. 60-39.72r.
Marks, Alfred F., to Esso Research and Engineering Company. Metal complexes of dithiobiurets. 3,686,244, 8-22-72, Cl. 260-439.00r.
Marks, Alvin M. Electro-optical dipolar material. 3,653,741, 4-4-72, Cl. 350-147.
Marks, Alvin M.; Marks, Mortimer M.; and Kent, Arthur P., to Marks Polarized Corporation. Nonglare coating for surfaces of TV tubes and the like and such coated surfaces. 3,679,451, 7-25-72, Cl. 117-33.300.
Marks, Charles Bryan. Vehicle emergency stop system. 3,648,806, 3-14-72, Cl. 188-2.
Marks, Joseph D.; Le Beck, Norman G.; and Allen, Glenn L. Syringe and holder. 3,674,181, 7-4-72, Cl. 222-179.500.
Marks, Lawrence E.: *See—*
Palenske, Carlton L.; and Marks, Lawrence E., 3,681,795.
Marks, Lou F.; and Szabo, Bela G., to Bruce Plastics, Inc. Luggage handles. 3,656,594, 4-18-72, Cl. 190-57.
Marks, Mortimer M.: *See—*
Marks, Alvin M.; Marks, Mortimer M.; and Kent, Arthur P., 3,679,451.
Marks, Murray, to United States of America, Interior. Tube connector fitting. 3,666,297, 5-30-72, Cl. 285-81.000.
Marks Polarized Corporation: *See—*
Marks, Alvin M.; Marks, Mortimer M.; and Kent, Arthur P., 3,679,451.
Marks, Robert A. Combined bracket mounting and support and metal stud structure. 3,648,419, 3-14-72, Cl. 52-36.
Marks, Theodore, to American Technical Industries, Inc. Apparatus for making artificial tree having exposed branch ends of weblike material. 3,657,870, 4-25-72, Cl. 57-24.
Marks, Theodore; and Spiegel, Si, to American Technical Industries, Inc. Modular tree using tapered frame and rings of branches. 3,692,617, 9-19-72, Cl. 161-24.000.
Marks, Walter R., to Rex Chainbelt Inc. Adjustable phase two shaft vibrator. 3,704,631, 12-5-72, Cl. 74-61.000.
Markstone Manufacturing Company: *See—*
Lund, Alvin R.; and Kaufman, Jack, 3,665,626.
Lund, Alvin R.; and Kaufman, Jack, 3,675,807.
Markus, Joseph: *See—*
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Markus, Joseph; Rowe, James H.; Dew, Kenneth L.; and Mystowski, Edward J. Food preparing system for passenger carrying conveyances. 3,692,975, 9-19-72, Cl. 219-202.000.
Markus, Theodoor Hendrik, to Grontmij Grondverbetering- En Ontginningmaatschappij N.V. Producing articles of synthetic material by molding and bonding. 3,649,407, 3-14-72, Cl. 156-245.
Markward, Charles J.: *See—*
Simon, Sydney; Simon, Morris; Hale, John S.; and Markward, Charles J., 3,682,557.
Markwick, John P., to Black, H. R., Company. Automatic endless belt type filter. 3,706,378, 12-19-72, Cl. 210-107.000.
Marlabs, Inc.: *See—*
Martin, Aaron J., 3,689,038.
Marlan Company: *See—*
Shields, John T., 3,698,990.

Marland, Joseph A.; and Hill, Charles W., to Marland One-Way Clutch Co., Inc. One-way self-aligning torque unit. 3,633,713, 1-11-72, Cl. 188-182.84.
Marland, Joseph A.; and Hill, Charles W., to Marland One-Way Clutch Co., Inc. One-way self-alining torque unit. 3,656,591, 4-18-72, Cl. 188-82.84.
Marland One-Way Clutch Co., Inc.: *See—*
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Marland, Joseph A.; and Hill, Charles W., 3,656,591.
Marler, James V.: *See—*
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Marler, Melvin L. Hinged coupler. 3,658,363, 4-25-72, Cl. 280-511.
Marley Company, The: *See—*
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Marley, Robert R., to Fairchild Camera and Instrument Corporation. Series gated multiplexer circuit. 3,639,781, 2-1-72, Cl. 307-243.
Marley, Robert R., to Motorola, Inc. Full-power/half-power logic gate. 3,700,915, 10-24-72, Cl. 307-215.000.
Marley Wollongong Limited: *See—*
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Marlin Firearms Co., The: *See—*
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Marlin Toy Products, Inc.: *See—*
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Marlor, Guy A.: *See—*
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Marlow, Jerry R.: *See—*
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Marlow, Jerry R., to General Motors Corporation. Transmission and control. 3,688,607, 9-5-72, Cl. 74-866.000.
Marlow, William H.: *See—*
Madalo, Michael; and Marlow, William H., 3,661,258.
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Marlowe, Frank Jerome; and Nester, Edward Oskar, to RCA Corporation. Alternating voltage excitation of liquid crystal display matrix. 3,654,606, 4-4-72, Cl. 340-166.
Marlowe, Mickey O.: *See—*
Hill, Howard W.; Kaznoff, Alexis I.; and Marlowe, Mickey O., 3,679,596.
Marlowe, Philip; and Greenberg, Joel. Automotive anti-theft system. 3,651,329, 3-21-72, Cl. 307-10.
Marmanac, Inc.: *See—*
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Marmion, Vincent James: *See—*
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Marmo, Anthony R., to Westinghouse Electric Corporation. Device for electrolytically inducing flocculation for water treatment plants. 3,663,413, 5-16-72, Cl. 204-275.
Marmo, Anthony R., to Westinghouse Electric Corporation. Separation process and apparatus. 3,684,703, 8-15-72, Cl. 210-13.000.
Marmon Group, Inc., The: *See—*
Crosby, Robert C.; and Holley, John D., 3,701,483.
Kershaw, John Knox; and Pearce, Edwin S., 3,649,984.
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Marmor, Ralph A.; and Brandberg, Lawrence C., to Pillsbury Company, The. Method and apparatus for measuring the peroxide content of fats. 3,705,012, 12-5-72, Cl. 23-230.00r.
Marocco, Sergio G.: *See—*
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Marom, Emanuel: *See—*
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Marom, Emanuel; and Mueller, Rolf K., to Bendix Corporation, The. Early detection of metal fatigue with a coherent optical cross correlation process. 3,631,713, 1-4-72, Cl. 73-67.3.
Marondel, Gunther: *See—*
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Maropis, Nicholas, to Aeroprojects Incorporated. Apparatus for delivering vibratory energy. 3,640,180, 2-8-72, Cl. 90-11.
Maros, Frank George; May, Jeffrey Scott; and Ramsey, Harold Eugene, to Du Pont de Nemours, E. I., and Company. Packaging method and package made thereby. 3,636,678, 1-25-72, Cl. 53-14.
Marose, Glen Edward, to Snowmobile, Ltd. Snowmobile device. 3,672,700, 6-27-72, Cl. 280-150.00r.
Maroshick, Max, to Boeing Company, The. Mechanical amplifier. 3,641,833, 2-15-72, Cl. 74-479.
Marosy, Andre. Coupling. 3,675,499, 7-11-72, Cl. 24-201.00a.
Marosy, Andre. Coupling. 3,695,648, 10-3-72, Cl. 285-376.000.
Maroth, Arthur M. Anti-friction screw and nut. 3,648,535, 3-14-72, Cl. 74-424.8.
Maroth, Arthur M. Powerful positive displacement reciprocating pressurizing device and method and means for continuously varying the pressurizing stroke. 3,653,789, 4-4-72, Cl. 417-534.
Marotta, Nicholas G.; Bell, Harvey; and Trubiano, Paolo C., to National Starch and Chemical Corporation. Pulpy textured, starch containing food systems. 3,650,770, 3-21-72, Cl. 99-139.
Marotta, Nicholas G.; Zwiercan, Gary A.; and Boettger, Richard M., to National Starch and Chemical Corporation. Manufacture of starch-containing food products. 3,652,294, 3-28-72, Cl. 99-83.
Marotta, Patrick T., to Marotta Scientific Controls, Inc. Poppet valve assembly with straight-through flow. 3,656,707, 4-18-72, Cl. 251-62.
Marotta Scientific Controls, Inc.: *See—*
Kowalski, Slawomir; and Worden, Donald A., 3,658,090.
Marotta, Patrick T., 3,656,707.
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Marotta Valve Corporation: *See—*
Petry, Henry Alfred; Rerecich, Francis; and Spangenberg, Gerhard, 3,648,496.
Marotte, Kenneth George Charles. Combination lock. 3,670,539, 6-20-72, Cl. 70-299.000.
Marotte, Pierre L., to Lignes Telegraphiques et Telephoniques. Automatic measuring system for a group of telecommunication circuits. 3,701,864, 10-31-72, Cl. 179-175.20r.
Marouby, Guy, to Societe Anonyme D.B.A. Anti-skid device for a vehicle braking system. 3,666,326, 5-30-72, Cl. 303-21.0be.
Marovich, Frank A.; and Wilson, Ray I., to Beckman Instruments, Inc. Electrochemical cell. 3,655,546, 4-11-72, Cl. 204-195.
Marovich, Frank A.; Bordeaux, Jean; and Sawtelle, Donald W., to United States of America, Army. Portable distillation unit. 3,694,321, 9-26-72, Cl. 202-83.000.
Marozzi, Alfred A. Replaceable cartridge type of inking apparatus. 3,662,682, 5-16-72, Cl. 101-219.
Marquarding, Dieter; Ugi, Ivar V.; Kleimann, Helmut; and Hoffmann, Peter, to Farbenfabriken Bayer Aktiengesellschaft. N-acyl-α-amino-acid amines or peptides and their production. 3,647,775, 3-7-72, Cl. 260-112.5.
Marquardson, Kent F. Overflow structure in electrolytic cell or the like. 3,646,961, 3-7-72, Cl. 137-577.
Marquardson, Kent F.; and Lewis, Daniel M., to Kennecott Copper Corporation. Electrolytic cell constructed for high circulation and uniform flow of electrolyte. 3,682,809, 8-8-72, Cl. 204-275.000.
Marquardt Industrial Products Co.: *See—*
Peel, Richard V.; and Phillips, Billie W., 3,641,338.
Risely, Richard E., 3,696,243.
Marquardt, Julius F.; and Wade, Ronald A., to International Harvester Company. Change-speed reduction drive for a conveyor. 3,668,794, 6-13-72, Cl. 37-8.000.
Marquardt, Robert F.: *See—*
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Marquart, Alfred, to Gewerkschaft Eisenhutte Westfalia. Hydraulic control device. 3,648,969, 3-14-72, Cl. 251-63.
Marquart, Gordon Le Roy: *See—*
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Marquette, Russell C. Detachable protector for steel bodies. 3,659,887, 5-2-72, Cl. 293-1.
Marquette Tool and Die Company: *See—*
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Marquez, Joseph A.; Wagman, Gerald H.; and Cooper, David J., to Schering Corporation. Separation of the components of the gentamicin complex. 3,651,042, 3-21-72, Cl. 260-210.
Marquis, David M.; and Sweeney, William A., to Chevron Research Company. Hydrolysis of olefin-sulfur trioxide reaction product mixtures. 3,641,131, 2-8-72, Cl. 260-513.
Marr, Fritz: *See—*
Golde, Hans; Herrmann, Friedrich; Kouth, Herbert; and Marr, Fritz, 3,675,371.
Kouth, Herbert; and Marr, Fritz, 3,640,022.

Marra, Alan A. Rigid composite products and process for the preparation thereof. 3,671,377, 6-20-72, Cl. 161-162.000.
Marradi, Renato. Automatic tray-loading device for cigarette packaging machines. 3,703,242, 11-21-72, Cl. 214-302.000.
Marraffino, Leonard L.; deceased (by Harper, Roger H.; executor). Two fluid aerosol dispenser with external secondary fluid container. 3,638,838, 2-1-72, Cl. 222-136.
Marraffino, Leonard L. Pressurized dispenser for plural fluids. 3,642,173, 2-15-72, Cl. 222-94.
Marraffino, Leonard L. Four part, two fluid dispenser. 3,653,547, 4-4-72, Cl. 222-94.
Marraffino, Leonard L. Three part, two fluid dispenser. 3,685,696, 8-22-72, Cl. 222-136.000.
Marraro, Robert V., to United States of America, Air Force. Bacterial growth media. 3,687,816, 8-29-72, Cl. 195-100.000.
Marrel, Bennes: *See—*
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Marrero, Michael T.: *See—*
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Marriner, Thomas E. Splicer for non-woven fibers. 3,633,352, 1-11-72, Cl. 57-22.
Marriott Corporation: *See—*
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Marriott, Eric Walter, to Cotton, William Limited. Straight bar knitting machines. 3,668,903, 6-13-72, Cl. 66-82.000.
Marriott, James G., to Libbey-Owens-Ford Company. Method of repairing electrically conducting frit circuits. 3,705,047, 12-5-72, Cl. 117-2.000.
Marrocco, Dominic A.: *See—*
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Marroni, Michael A., Jr., to United States of America, National Aeronautics and Space Administration, mesne. Restraint torso for a pressurized suit. 3,660,851, 5-9-72, Cl. 2-2.1.
Marrs, Kenneth M.: *See—*
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Marrs, Oren L.; and Simpson, Billy D., to Phillips Petroleum Company. Pressure sensitive adhesives. 3,658,740, 4-25-72, Cl. 260-27.
Marrs, Oren L., to Phillips Petroleum Company. Copolymer bonding agent. 3,666,701, 5-30-72, Cl. 260-27.
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Marrujo, Ralph G.; and Tanaka, Aki, to Fairchild Industries, Inc. Vehicle seat mounting system. 3,652,050, 3-28-72, Cl. 248-429.
Mars Incorporated: *See—*
Boxall, Ronald Stanley George; and Dennes, Anthony Charles, 3,653,481.
Mars, James R.; and Ciepiela, Frederick S., to General Electric Company. Printed circuit board construction. 3,646,399, 2-29-72, Cl. 317-100.
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Krupen, Ira; and Gilman, Marvin A., 3,693,383.
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Marsan, Arthur E. Post-surgical drainage pouch. 3,667,469, 6-6-72, Cl. 128-283.000.
Marsan, Arthur E. Colostomy irrigator. 3,672,370, 6-27-72, Cl. 128-227.000.
Marsan, Arthur E. Disposable drainage pouch for colostomy and the like and method of making. 3,695,268, 10-3-72, Cl. 128-283.000.
Marsan, Mario S.: *See—*
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Marsch, Hans-Dieter: *See—*
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Marsch, Karl. Metal pulley with detachable plastic fan. 3,659,471, 5-2-72, Cl. 74-230.3.
Marsch, Karl. Machine and method for making pulley grooves or the like. 3,675,453, 7-11-72, Cl. 72-58.000.
Marschak, Howard J. Base portion of a stand or the like. 3,637,179, 1-25-72, Cl. 248-188.7.
Marschak, Howard J. Shelf detachably secured to an apertured board to form a display unit. 3,669,034, 6-13-72, Cl. 108-152.000.
Marschak, Howard J. Base for a display rack. 3,669,036, 6-13-72, Cl. 108-153.000.
Marschall, Helmut; Kammermayer, Wolfgang; Beller, Hans Albert; Hahm, Heinz; and Belart, Juan, to Teves, Alfred, G.m.b.H. Piston assembly for dual-network disk-brake system. 3,669,226, 6-13-72, Cl. 188-345.
Marschall, Peter. Code converters. 3,691,554, 9-12-72, Cl. 340-347.0dd.
Marschik, John F.; and Cernoch, Werner J., to Engelhard Minerals & Chemicals Corporation. Recovery of metal values from nickel-copper mattes. 3,652,265, 3-28-72, Cl. 75-117.
Marschner, Frank William, to Colgate-Palmolive Company. Reversible-emulsion aerosol system. 3,705,855, 12-12-72, Cl. 252-90.000.
Marschner, Heinz: *See—*
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Marsden, James G., to Union Carbide Corporation. Inorganic oxide substrate coated with water dispersible ethylene and acrylic-methocrylic copolymer salts with siloxane. 3,661,628, 5-9-72, Cl. 117-126.
Marsden, Ronald Eric. Splicer for reinforcing bars. 3,679,250, 7-25-72, Cl. 287-110.000.
Marsden, Sullivan S., Jr.; and Rose, Stephen C. Pipelining crude oils and tars containing dissolved natural gas at sub-freezing temperatures in order to avoid environmental damage. 3,670,752, 6-20-72, Cl. 137-13.000.
Marsee, Frederick J., to Ethyl Corporation. Reducing engine emissions. 3,646,921, 3-7-72, Cl. 123-117.
Marsh, Albert F. Automatic egg turner for incubator. 3,669,075, 6-13-72, Cl. 119-44.000.
Marsh, Anthony. Loading platform light fixture. 3,707,624, 12-26-72, Cl. 240-54.00a.
Marsh, Byron E.; Kinney, Layton E.; and Betty, Roy J., Jr., to Armour Industrial Chemical Company, mesne. Thickened chlorinated solvent compositions and method. 3,634,273, 1-11-72, Cl. 252-170.
Marsh, Byron E.; Betty, Roy J.; and Marsh, Frederick S., to Armour Industrial Chemical Company, mesne. Oil well drilling and treating fluids. 3,650,951, 3-21-72, Cl. 252-8.5.
Marsh, David C., to Borg-Warner Corporation. Self-cleaning rotary fluid filtration system. 3,633,754, 1-11-72, Cl. 210-360.
Marsh, David C.; and Rao, Prabhakar B. R., to Borg-Warner Corporation. Gas-driven hydraulic power converting pump. 3,649,135, 3-14-72, Cl. 417-340.
Marsh, Frederick L., to Gould-National Batteries, Inc. Additives for dry charged batteries. 3,639,175, 2-1-72, Cl. 136-154.000.
Marsh, Frederick L.; and Thompson, Kirk L., to Gould-National Batteries, Inc. Immobilized electrolytes for secondary cells. 3,663,304, 5-16-72, Cl. 136-157.
Marsh, Frederick S.: *See—*
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Marsh, Gerald A.: *See—*
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Marsh, Glenn A.; and Schaschl, Edward, to Union Oil Company of California. Method for determining the completeness of cathodic protection of corrodible metal structure. 3,649,492, 3-14-72, Cl. 204-148.
Marsh, Henry N., Jr.; and Gano, Barclay P., to Owens-Corning Fiberglas Corporation. Composite articles including bonded fibrous glass with said articles having density gradients. 3,642,560, 2-15-72, Cl. 161-39.
Marsh, James Courtland, Jr., to RCA Corporation. Automatic degaussing apparatus for minimizing residual current during steady state operation. 3,699,400, 10-17-72, Cl. 317-157.500.
Marsh, Jean S.: *See—*
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Marsh, John; deceased (by Marsh, Jean S.; administratrix), to United Aircraft Corporation. Automatic cargo release mechanism. 3,690,602, 9-12-72, Cl. 244-137.00r.
Marsh, John F.; and Swietlik, Joseph M., to Esso Research and Engineering Company. Detergent additives. 3,655,557, 4-11-72, Cl. 252-32.7.
Marsh, Keith D.: *See—*
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Marsh, Lawrence B., to United States of America, Navy, mesne. Line-scan television system employing spectrum analysis. 3,660,594, 5-2-72, Cl. 178-5.2.
Marsh, Lawrence C., to General Motors Corporation. Solenoid control apparatus. 3,643,129, 2-15-72, Cl. 317-11.
Marsh, Loyal F. Tethered ball baseball batting practice device. 3,652,088, 3-28-72, Cl. 273-26.
Marsh, Lynn W.; and Schneiderhan, Edward M., to Mohawk Data Sciences Corporation. Control for chain printer. 3,699,884, 10-24-72, Cl. 101-93.00c.
Marsh, Lynn W., Jr., to Mohawk Data Sciences Corporation, mesne. Printer having fewer hammer actuating means than hammers. 3,654,857, 4-11-72, Cl. 101-93.
Marsh, Norman F.: *See—*
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Marsh, Norman F.; and Struck, Karl W., to Sangamo Electric Company. Electrical data logging system for utility industry. 3,643,063, 2-15-72, Cl. 235-61.1.
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Hunsperger, Robert G.; and Marsh, Ogden J., 3,666,567.
Marsh, Richard P.; and Whannel, Ralph F. Device for forming and handling concrete pipe. 3,635,613, 1-18-72, Cl. 425-62.

Marsh, Robert E. Fluid flow directing structure for pressure vessel. 3,662,780, 516-72, Cl. 137-590.

Marsh, Robert E. Water softener deflector-distributor structure. 3,704,785, 12-5-72, Cl. 210-285.000.

Marsh, Robin S. Method and apparatus for determination of H_2S in hydrogen sulfide petroleum products. 3,660,035, 5-2-72, Cl. 23-230.

Marsh, Ronald W.: *See—*
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Marshall, Akemi S.: *See—*
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Marshall, Alan; and Macpherson, Anne Wilson, to Geigy Chemical Corporation. Pharmaceuticals prepared from polycyclic bases and cation exchange resins. 3,665,073, 5-23-72, Cl. 424-79.

Marshall, Albert H.; and Siragusa, George A., to United States of America, Navy. Semiconductor laser marksmanship training device. 3,657,826, 4-25-72, Cl. 35-25.000.

Marshall, Alec Frank; and Taylor, Hugh Gordon, to Birmingham Small Arms Company Limited, The. Presses. 3,659,985, 5-2-72, Cl. 425-78.

Marshall, Alec Frank; and Taylor, Hugh Gordon, to Birmingham Small Arms Company Limited, The. Presses for production of complex components. 3,664,785, 5-23-72, Cl. 425-78.

Marshall, Burton H. Power driven conveyor. 3,666,077, 5-30-72, Cl. 198-29.

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Marshall, David: *See—*
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Marshall, David J., to American Home Products Corporation. 7α, 8α-Methyleneestrogens and preparation thereof. 3,634,404, 1-11-72, Cl. 260-239.55.

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Marshall, David W.; and Feighner, George C., to Continental Oil Company. Purification of detergent alkylates. 3,632,660, 1-4-72, Cl. 260-674.

Marshall, Don J., to Goodall Semi-Metallic Hose & Mfg., Co. Tire stand. 3,665,989, 5-30-72, Cl. 144-288.00a.

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Marshall, Edwin L.; Bocian, Harvey; and Hauptman, Neil L., to Somar Dental Studios, Inc. Die holder for dental laboratory. 3,702,027, 11-7-72, Cl. 32-11.000.

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Marshall, Fred R., to TRW Inc. Electromagnetic radiation beam directing systems. 3,643,178, 2-15-72, Cl. 331-94.5.

Marshall, Frederick P.: *See—*
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Marshall, Gailen D., to Sperry Sun Well Surveying Company. Expendable shock absorber. 3,653,468, 4-4-72, Cl. 188-1.

Marshall, George E.: *See—*
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Marshall, George E.; Perno, Bartholomew J.; and Stokes, Robert G., to Xerox Corporation. Combined document feed and book copying apparatus. 3,685,905, 8-22-72, Cl. 355-75.000.

Marshall, Harold A. Fluid mixing device. 3,664,372, 5-23-72, Cl. 137-552.000.

Marshall, Harry L.: *See—*
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Marshall, James C.; and Stewart, Terrence J., to International Business Machines Corporation. Process for inducing superplasticity in zinc or zinc-aluminum alloys containing copper. 3,632,454, 1-4-72, Cl. 148-11.5.

Marshall, James E.: *See—*
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Marshall, John. Navigational travel time computer. 3,683,506, 8-15-72, Cl. 33-76.00r.

Marshall, John L., Jr.: *See—*
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Marshall, Joseph, to Thomas & Betts Corporation. Coaxial flat cable. 3,634,782, 1-11-72, Cl. 333-1.

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Marshall, Kenneth N.; and Schwartz, Linus G., to National Controls, Inc. Wheel load scale. 3,658,142, 4-25-72, Cl. 177-208.

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Marshall, Peter W.; Arnold, Peter; and Dunn, Francis P. Curved offshore well conductors. 3,687,204, 8-29-72, Cl. 175-9.000.

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Marshall, Philip Ronald; and Ridgewell, Brian John, to International Synthetic Rubber Company Limited, The. Polymerisation of cycloolefins using molybdenum or tungsten halide or oxyhalide and aluminum halide catalysts. 3,639,371, 2-1-72, Cl. 260-93.1.

Marshall, Ray A., to SCM Corporation. Data reading apparatus. 3,639,729, 2-1-72, Cl. 235-61.11.

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Marshall, Richard A., to Esso Research and Engineering Company. Removal of 5-ethyl-2-methylpyridine from pyridine polymers. 3,639,363, 2-1-72, Cl. 260-80.3.
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Marshall, Robert G.; and Hedrick, Robert K. Suspension bridge preassembled abutment towers and anchorage. 3,685,074, 8-22-72, Cl. 14-27.000.
Marshall, Robert, Jr. Pull chain operator for rotary switch shaft. 3,643,052, 2-15-72, Cl. 200-172.
Marshall, Robert M., to Ceilcote Company, The. Acid pickle tank covers. 3,648,593, 3-14-72, Cl. 98-115.
Marshall, Rolf F. Cellular building structure. 3,688,327, 9-5-72, Cl. 14-1.000.
Marshall, Ted R.: *See—*
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Marshall, Walter L. Pre-amplifier plug for musical instruments with battery retaining and switch activating rod means. 3,662,223, 5-9-72, Cl. 317-99.000.
Marshall, Walter R., to Union Carbide Corporation. Mixing of fluid materials. 3,675,902, 7-11-72, Cl. 259-7.000.
Marshall, William A.; Lunkwicz, Bernard Paul; and Meresz, Henry, to Lear Siegler, Inc. Air heater. 3,638,636, 2-1-72, Cl. 126-110.
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Marshall, Winston S., to Lilly, Eli, and Company. Substituted phenylalkanoic acid derivatives II. 3,649,679, 3-14-72, Cl. 260-520.
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Marshman, John Henry: *See—*
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Martel, Eugene H.; and Schuch, Gerald T., to Badger Company, Inc., The. Extraction and multi-shape fractional distillation with indirect heat exchange of liquid and vapor process and system for recovering aromatic product. 3,639,497, 2-1-72, Cl. 260-674.
Martel, Jacques; and Buendia, Jean, to Roussel-UCLAF. Synthesis of pyrethric acid. 3,694,472, 9-26-72, Cl. 260-468.00p.
Martelee, Ghislain Antoine Jean-Marie. Gripper for handling heavy products and specifically horizontal-axis coils. 3,655,232, 4-11-72, Cl. 294-67.
Martelee, Ghislain Antoine Jean-Marie, to Cockerill-Ougree-Providence et Esperance-Longdoz, en abrege "Cockerill". Press assembly for compacting and binding wire coils. 3,675,568, 7-11-72, Cl. 100-7.000.
Martell, Arthur E. Hydroxyaryl-containing aminocarboxylic chelating agents. 3,632,637, 1-4-72, Cl. 260-519.
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Martelli, Nerio. Vacuum moulding machine. 3,667,889, 6-6-72, Cl. 425-314.000.
Martelli, Nerio. Foamed plastic pocket tray for fruits or like articles. 3,695,453, 10-3-72, Cl. 211-14.000.
Marten, Donald J., to Bonner, W. C., Company, Inc. Injection pump. 3,635,597, 1-18-72, Cl. 417-568.
Marten, John Anthony; and Gee, Bernard Arthur, to Suntester Limited. Vehicle testing apparatus. 3,693,422, 9-26-72, Cl. 73-117.000.
Marten, John Anthony; and Gene, Bernard Arthur, to Suntester Limited. Vehicle testing apparatus. 3,702,075, 11-7-72, Cl. 73-117.000.
Marten, John Anthony; and Gee, Bernard Arthur, to Suntester Limited. Vehicle testing apparatus and to safety devices therefore. 3,704,624, 12-5-72, Cl. 73-117.000.
Martens, David A.: *See—*
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Martenson, Earl D.; and Ingham, Ray E., to Barber-Greene Company. Proportional screed control for a finisher. 3,691,916, 9-19-72, Cl. 94-46.0ac.
Marthaler, Max; and Oetiker, Alfred, to Ciba Limited. Silver dye bleach photographic elements and processes for their use. 3,650,739, 3-21-72, Cl. 96-20.
Marti, Erich. Device for withdrawing blood from bodies of slaughtered animals. 3,649,996, 3-21-72, Cl. 17-1.
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Martin, Aaron J., to Marlabs, Inc. Dynamic gas flow apparatus. 3,689,038, 9-5-72, Cl. 263-2.000.
Martin, Afton V.; and Modovan, Michael T., Jr., to AVM Corporation. Voter instruction device. 3,654,709, 4-11-72, Cl. 35-13.
Martin, Alan. Mandrel rivet setting tool. 3,646,800, 3-7-72, Cl. 72-391.
Martin, Alan. Threaded blind fastener. 3,683,740, 8-15-72, Cl. 85-72.000.
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Martin, Anthony Eugene Joseph; and Baker, Bernard James, to Lucas, Joseph, (Industries) Limited. Hydrostatic transmission systems. 3,660,975, 5-9-72, Cl. 60-19.
Martin, Anthony Eugene Joseph; Skinner, Robert Thomas John; and Baker, Bernard James, to Lucas, Joseph, (Industries) Limited. Hydrostatic transmission systems. 3,662,495, 5-16-72, Cl. 60-19.
Martin, Anthony Eugene Joseph, to Lucas, Joseph, (Industries) Limited. Multiposition fluid-operable piston and cylinder unit. 3,683,752, 8-15-72, Cl. 92-13.510.

Martin, Anthony Michael. Apparatus for forming helical gear wheel bodies from powder. 3,677,671, 7-18-72, Cl. 18-16.500.
Martin, Arthur Seymon. Method and apparatus for determining the coefficient of diffusion of a dissolved solute in unsaturated solution. 3,677,071, 7-18-72, Cl. 73-61.400.
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Martin, Calvin C. Positionable clothesline support. 3,675,785, 7-11-72, Cl. 211-119.100.
Martin, Charles A., to Martin Fireproofing Corporation. Structural cement-wood fiber panel. 3,638,384, 2-1-72, Cl. 52-589.
Martin, Charles H., 50% to Hamilton, J. Brook. Arrangement for connecting concrete or clay bricks, blocks, panels and slabs. 3,680,277, 8-1-72, Cl. 52-438.000.
Martin, Charles K., to Infern-O-Therm Corporation. Bin heater system. 3,659,583, 5-2-72, Cl. 126-343.5.
Martin, Claude, to Reuge SA. Musical toy. 3,693,287, 9-26-72, Cl. 46-118.000.
Martin, Clyde J., to Martin Industries, Inc. Pressure gauge. 3,677,089, 7-18-72, Cl. 73-419.000.
Martin, Clyde J., to Martin Industries, Inc. Gauge actuated circuit control unit. 3,703,616, 11-21-72, Cl. 200-56.00r.
Martin, Daniel W., to Baldwin, D. H., Company. Electronic organ keying circuits. 3,660,587, 5-2-72, Cl. 84-1.18.
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Martin, Donald L., to General Electric Company. Sintered cobalt-rare earth intermetallic product and permanent magnets produced therefrom. 3,682,714, 8-8-72, Cl. 148-31.570.
Martin, Donald L., to General Electric Company. Sintered cobalt-rare earth intermetallic product including samarium and lanthanum and permanent magnets produced therefrom. 3,682,715, 8-8-72, Cl. 148-31.570.
Martin, Donald L.; and Benz, Mark G., to General Electric Company. Sintered intermetallic product of cobalt, samarium and cerium mischmetal and permanent magnets produced therefrom. 3,682,716, 8-8-72, Cl. 148-31.570.
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Martin, Elmore L., to Du Pont de Nemours, E. I., and Company. Substituted chalcogeno derivatives of tetracyanoquinodimethans. 3,687,987, 8-29-72, Cl. 260-396.00n.
Martin, Elmore Louis, to Du Pont de Nemours, E. I., and Company. Charge-transfer complexes of fluoro- and cyano-substituted tetracyanoquinodimethans. 3,681,353, 8-1-72, Cl. 260-267.000.
Martin, Ernest B. W. Board game apparatus. 3,692,310, 9-19-72, Cl. 273-131.0ab.
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Martin, Francis Willis, to Corning Glass Works. High durability lead titanate-containing enamel for glass ceramics. 3,663,244, 5-16-72, Cl. 106-49.
Martin, Frank C. Attachment for magnetic starters to protect three-phase electric motors. 3,671,808, 6-20-72, Cl. 317-13.00r.
Martin, Frederick R. P., to Ward, Martin, Developments Limited. Self-levelling vehicle lamps. 3,636,343, 1-18-72, Cl. 240-7.1.
Martin, Geoffrey, to Avco Corporation. Filler metal alloy for titanium brazing. 3,660,891, 5-9-72, Cl. 29-494.
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Martin, Gregory L.; and Blair, Lloyd R. Precision generation of linear F.M. signal. 3,699,448, 10-17-72, Cl. 325-131.000.
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Martin, Helmut, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. HF cable. 3,681,717, 8-1-72, Cl. 333-84.00r.
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Martin, Henry; Beriger, Ernst; and Moser, Kurt, to Ciba Limited. Nematocidal preparations containing phosphonium compounds as the ingredient. 3,642,989, 2-15-72, Cl. 424-211.
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Martin, Henry L., to Bunker-Ramo Corporation, The. Pile fabric finishing methods and apparatus. 3,641,635, 2-15-72, Cl. 26-2.
Martin, Henry Woods, to Nugent, William W., & Co., Inc. Filter. 3,647,084, 3-7-72, Cl. 210-492.
Martin, Homer Z., to Esso Research and Engineering Company. Fluid catalytic cracking process employing conventional cracking catalytic and superactive molecular sieve cracking catalyst. 3,649,521, 3-14-72, Cl. 208-120.
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Martin, Jack, to Westinghouse Electric Corporation. Ribbon conductor press seal structure. 3,681,640, 8-1-72, Cl. 313-222.000.
Martin, Jack; and Gorecki, Joseph S., to Westinghouse Electric Corporation. Compact single-ended incandescent lamp having improved filament mount assembly. 3,696,265, 10-3-72, Cl. 313-222.000.
Martin, Jack D. Machine tool. 3,638,520, 2-1-72, Cl. 82-24.
Martin, James, to Bord NA Mona. Moss peat cake for horticulture. 3,656,930, 4-18-72, Cl. 71-24.
Martin, James. Ejection seat and mechanism therefor. 3,701,502, 10-31-72, Cl. 244-122.0ad.
Martin, James. Parachute harness and release mechanism therefor. 3,701,503, 10-31-72, Cl. 244-122.0ad.
Martin, James. Vehicle ejection seats. 3,706,434, 12-19-72, Cl. 244-122.0ad.
Martin, James B.: *See—*
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Martin, James Earl, Sr. Internal expansion vapor engine. 3,695,036, 10-3-72, Cl. 60-27.000.
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Martin, Jerry L., to Truth Incorporated. Check rail lock. 3,706,467, 12-19-72, Cl. 292-111.000.
Martin, Jerry Roy, to Abbott Laboratories. 3-O(2-L-mycarosyl)-8-hydroxy-erythronolide B. 3,684,794, 8-15-72, Cl. 260-210.00e.
Martin, Joan Hixon: *See—*
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Waterbury, Nelson J., 3,667,478.
Martin, Johannes Josef; and Weber, Erich, to Martin, Josef, Feuerungsbau G.m.b.H. Feed arrangement for a combustion furnace. 3,667,627, 6-6-72, Cl. 214-23.000.
Martin, John: *See—*
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Martin, John A.: *See—*
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Martin, John C.; and Thompson, William L., to Bailey Meter Company. Silicon pressure transducer circuit. 3,646,815, 3-7-72, Cl. 73-398.
Martin, John C., to Bunn-O-Matic Corporation. Apparatus for supplying hot water for coffee brewing purposes. 3,691,932, 9-19-72, Cl. 99-281.000.
Martin, John C., to Bunn-O-Matic Corporation. Automatic coffee brewer with liquid level sensor. 3,691,933, 9-19-72, Cl. 99-282.000.
Martin, John E.; and Landry, B. Roger, to Temptat Corporation. Automatically resettable fire sprinkler valve. 3,698,483, 10-17-72, Cl. 159-37.000.
Martin, John Frank; and Ramsden, Charles Dean, to Fruehauf Corporation. Cargo container lifting and spacing apparatus. 3,671,069, 6-20-72, Cl. 294-81.0sf.
Martin, John Henry Edward James; and Porter, John Norman, to American Cyanamid Company. Antifungal BH 890. 3,700,769, 10-24-72, Cl. 424-119.000.
Martin, John J., to Avco Corporation. Forming and trimming apparatus for hydroform press. 3,672,194, 6-27-72, Cl. 72-55.
Martin, John P.; Beninger, Darrell J.; and Lemon, John R., to Welwyn Canada Limited. Method for spiralling electrical resistors. 3,675,317, 7-11-72, Cl. 29-620.000.
Martin, John R. Tension regulation apparatus. 3,659,767, 5-2-72, Cl. 226-195.
Martin, John Robert, to Lever Brothers Company. Hard surface cleaner. 3,640,880, 2-8-72, Cl. 252-161.
Martin, Josef, Feuerungsbau G.m.b.H.: *See—*
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Martin, Joseph L., to Anvil Industries, Inc., mesne. Prefabricated conduit. 3,677,303, 7-18-72, Cl. 138-109.000.
Martin, Joshua W., III, to Du Pont de Nemours, E. I., and Company. Apparatus for shocking materials. 3,658,268, 4-25-72, Cl. 241-301.
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Martin, Kenneth G.; and Seuferer, Paul A., to Collins Radio Company. Dine and coarse sychro servomotor control including a dual sin/coSine to DC Converter. 3,701,936, 10-31-72, Cl. 318-595.000.
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Martin, Louis N. Delicate instrument shipping crate. 3,656,649, 4-18-72, Cl. 217-52.
Martin, Marie Therese. Extendible wig rack. 3,658,283, 4-25-72, Cl. 248-122.
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Martin, Merrill D. Method and apparatus for handling sheets. 3,658,322, 4-25-72, Cl. 271-76.
Martin, Michel, to Compagnie de Saint-Gobain. Method for vertical suspension of glass sheets during thermal treatment. 3,677,731, 7-18-72, Cl. 65-102.000.
Martin, Myron D. Corn popper. 3,701,312, 10-31-72, Cl. 99-238.600.
Martin, Norman L., to Locke Stove Company. Cooking device. 3,693,534, 9-26-72, Cl. 99-260.000.
Martin, Otis M.: *See—*
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Martin, Patricia: *See—*
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Martin, Paul A., to Quaker Oats Company, The. Multi-tune music box. 3,638,524, 2-1-72, Cl. 84-95.
Martin, Paul B., Jr.; and Spencer, Gilbert W., to Reynolds, R. J., Tobacco Company. Self propelled sewage sludge excavator. 3,688,924, 9-5-72, Cl. 214-17.0db.
Martin, Paul W., to Republic Industries, Inc. Combined door checking and door hold open mechanism. 3,696,462, 10-10-72, Cl. 16-49.0ho.
Martin, Peter G. Lumped component standing wave ratio indicators for radio frequency transmission lines. 3,683,274, 8-8-72, Cl. 324-58.00r.
Martin, Preston Kuhn; and Kelly, Richard Howard, to Celanese Corporation. Detergent polyelectrolyte builders. 3,706,672, 12-19-72, Cl. 252-156.000.
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Martin, Richard G.; Tuddenham, William M.; and Lebrizz, Joseph M., to Kennecott Copper Corporation. Method of analyzing circulation of electrolyte in electrorefining cells. 3,691,832, 9-19-72, Cl. 73-204.000.
Martin, Ricky, to Bell Electronic Corporation. Inventor circuit with stabilized frequency under all load conditions. 3,667,027, 5-30-72, Cl. 321-11.000.
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Martin, Robert I., to Rimar Manufacturing, Inc. Maintenance free door light insert assembly. 3,641,721, 2-15-72, Cl. 52-212.
Martin, Robert I. Plastic door frame. 3,702,517, 11-14-72, Cl. 49-504.000.
Martin, Robert J., to Cessna Aircraft Company, The. Axial piston device. 3,698,287, 10-17-72, Cl. 91-507.000.

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Martin, Robert L. Rotary magnetic disc circuit indicator. 3,705,350, 12-5-72, Cl. 324-133.000.
Martin, Robert Lanham, to Bell Telephone Laboratories, Incorporated. Method of protecting data in a multiprocessor computer system. 3,683,418, 8-8-72, Cl. 444-1.000.
Martin, Robert M. Horizontal bar exercising device. 3,707,285, 12-26-72, Cl. 272-62.000.
Martin, Robert W. Abrasive hand tool. 3,634,982, 1-18-72, Cl. 51-394.
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Martin, Ronald L., to Honeywell Inc. Changeover apparatus for a condition responsive device. 3,664,580, 5-23-72, Cl. 236-44.000.
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Martin, Sidney L. Hanger device useful in forming concrete structural slabs. 3,693,929, 9-26-72, Cl. 249-25.000.
Martin, Stephen J. Negative impedance line isolators. 3,636,266, 1-18-72, Cl. 179-1.
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Martin, William Allen, to Eastman Kodak Company. Film advancing apparatus. 3,672,751, 6-27-72, Cl. 352-30.000.
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Martuch, Leon L., to Scientific Anglus Inc. Tactile indicator for fly line. 3,653,143, 4-4-72, Cl. 43-44.98.
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Maruyama, Shoji; Saito, Tadashi; Yoshida, Shigeaki; and Shimada, Masaru, to Kabushiki Kaisha Ricoh. Diazotype photoprinting material. 3,699,000, 10-17-72, Cl. 96-91.
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Marzocchi, Alfred, to Owens-Corning Fiberglas Corporation. Apparatus and method of removing excess liquid coating from glass filaments. 3,681,039, 8-1-72, Cl. 65-3.000.
Marzocchi, Alfred, to Owens-Corning Fiberglas Corporation. Tire construction featuring glass and organic cord carcass piles. 3,682,217, 8-8-72, Cl. 152-356.000.
Marzocchi, Alfred; and Brown, Alfred Winsor, to Owens-Corning Fiberglas Corporation. Tire construction with improved reinforcement. 3,682,221, 8-8-72, Cl. 152-357.000.
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Mason, Robert P., to LogEtronics Inc. Radiographic reduction system. 3,700,329, 10-24-72, Cl. 355-81.000.
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Mason, William B.; and Houst, Douglas R., to General Electric Company. Control circuits for an electric tractor. 3,649,896, 3-14-72, Cl. 318-387.
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Massa, Donald P., to Massa Division, Dynamics Corporation of America. Signal processing system for extracting a periodic signal of unknown frequency from a high level background noise. 3,656,097, 4-11-72, Cl. 340-5.
Massa, Frank, to Dynamics Corporation of America. Electroacoustic transducers of the bilaminar flexural vibrating type. 3,638,052, 1-25-72, Cl. 310-8.2.
Massa, Frank, to Massa Division Dynamics Corporation of America. Electroacoustic massager for the gums. 3,651,576, 3-28-72, Cl. 32-40.
Massa, Frank, to Massa Division, Dynamics Corporation of America. Monitoring a chemical processing system by measuring the instantaneous sound transmission characteristics therein. 3,654,072, 4-4-72, Cl. 162-49.
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Massa, Joseph H., to National Screw & Manufacturing Company, The. High strength structural blind fastener for use in airplanes, rockets and the like. 3,643,544, 2-22-72, Cl. 85-72.
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Massie, Stephen N., to Universal Oil Products Company. Alkylation of aromatics with alkyl halides. 3,705,201, 12-5-72, Cl. 260-671.00c.
Massie, Stephen N., to Universal Oil Products Company. Alkylation of aromatics with olefins. 3,705,202, 12-5-72, Cl. 260-671.00c.

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Matay, Istvan M., to TRW Inc. Ultrasonic distance amplitude correction unit. 3,690,153, 9-12-72, Cl. 73-67.80r.
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Mathieu, Alexis; and Barberot, Claude, to Solvay & Cie. Cross-linkable compositions based on elastomers and on cross-linkable copolymers of vinyl chloride. 3,644,578, 2-22-72, Cl. 260-876.
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Mathis, Edmund A., to Nichols Engineering & Research Corporation. Recovery system. 3,650,830, -21-72, Cl. 134-19.
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Mathis, Pierre, to Solvay & Cie. Process for recovering boron in products resulting from alkaline attack on borocalcic ores. 3,671,188, 6-20-72, Cl. 23-59.000.
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Mathis, Ronald D.; and Guillory, Jack P., to Phillips Petroleum Company. Polymers of mono-1-olefins stabilized against degradation by ultraviolet light. 3,644,279, 2-22-72, Cl. 260-45.8.

Mathis, Ronald D.; and Dunn, Howard E., to Phillips Petroleum Company. Ultraviolet light stabilization of polyolefins with nickel or cobalt complexes. 3,659,002, 4-25-72, Cl. 260-45.75.
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Mathisen, Einar S., to International Business Machines Corporation. Contactless mask pattern exposure process and apparatus system having virtual extended depth of focus. 3,677,634, 7-18-72, Cl. 355-2.000.
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Mator, Richard T., to Gulf Research & Development Company. Portable trace moisture generator for calibration of moisture analyzers. 3,665,748, 5-30-72, Cl. 73-1.00a.
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Matthews, James J. Jacket stripping tool. 3,659,483, 5-2-72, Cl. 81-9.50c.

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Matthews, Joseph S., to Gulf Research & Development Company. Electrochemical reduction of aromatic compound. 3,682,791, 8-8-72, Cl. 204-59.00r.

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Matthews, Merton Louis, to Maxson Automatic Machinery Company. Rotary paper-cutter knife structure. 3,703,117, 11-21-72, Cl. 83-677.000.
Matthews, Ralph W.: *See—*
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Matthews, Ralph W.; Bernhoft, Gerald W.; and Schmidt, Michael R., to Allis-Chalmers Manufacturing Company. Deceleration control system for hydrostatic drive vehicles. 3,633,700, 1-11-72, Cl. 180-66.
Matthews, Ralph W.; Bernhoft, Gerald W.; and Schmidt, Michael R., to Allis-Chalmers Manufacturing Company. Hydraulic row marker system. 3,670,823, 6-20-72, Cl. 172-128.000.
Matthews, Raymond A. Method of drawing metal tubes. 3,701,270, 10-31-72, Cl. 72-57.000.
Matthews, Richard D.; Halfhill, Martin O.; Sordello, Frank J.; and Yang, Harold S., to Information Storage Systems, Inc. Control for disc drive apparatus. 3,670,316, 6-13-72, Cl. 340-174.10c.
Matthews, Robert J. Milk filter dispenser. 3,632,017, 1-4-72, Cl. 221-33.
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Matthews, Russell E.; and Foerster, George S., to Dow Chemical Company, The. Fluid quench apparatus. 3,691,813, 9-19-72, Cl. 72-342.000.
Matthews, Vincent: *See—*
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Matthews, William J., to Philco-Ford Corporation. Optical character recognition system using parallel different scan signal processors to feed higher speed asynchronous recognition register. 3,644,890, 2-22-72, Cl. 340-146.3.
Matthews, William R.: *See—*
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Matthey, Andre: *See—*
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Matthey, Emile, to Matthey S.A. Methods of machining combs for musical mechanisms. 3,646,848, 3-7-72, Cl. 90-11.
Matthey, Emile Charles. Drive unit for a music box. 3,685,382, 8-22-72, Cl. 84-95.000.
Matthey, Henri; and Bessire, Jean-Jacques, to ERESA S.A. Phase and speed control of a DC motor. 3,689,816, 9-5-72, Cl. 318-314.000.
Matthey, Johnson, & Co., Limited: *See—*
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Matthey-Doret, William. Folding bed. 3,699,594, 10-24-72, Cl. 5-99.000.
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Matthies, Alan A., to Controls Company of America. Timer controlled refrigeration system. 3,643,459, 2-22-72, Cl. 62-157.
Matthies, Dennis Lee, to RCA Corporation. Compounding liquid crystal cells. 3,661,444, 5-9-72, Cl. 350-160.
Matthiesen, Albert H., to Sterling Drug Inc. Process of conditioning sewage sludge in system with by-pass valve system for a solvent wash. 3,647,687, 3-7-72, Cl. 210-63.
Matthiesen, Erik Hedeager. Shrimp peeling machine. 3,634,909, 1-18-72, Cl. 17-73.
Matthieu, Paul; Leuchs, Ottmar; Glander, Fritz; Kuypers, Hubert; and Pelz, Diethart, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Thermally insulated conduit. 3,698,440, 10-17-72, Cl. 138-149.000.
Matthis, Hans: *See—*
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Matti, Leo F. Container top opener. 3,678,788, 7-25-72, Cl. 81-3.430.
Mattia, Michael: *See—*
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Mattia, Michael, to Budd Company, The. Method of electroforming on surfaces having projections. 3,671,405, 6-20-72, Cl. 204-4.000.
Mattia, Michael; and Van Sciver, Herbert D., II, to Budd Company, The. Method of joining dissimilar metals by plating. 3,671,406, 6-20-72, Cl. 204-16.000.
Mattila, Henry K.: *See—*
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Mattingly, Charles D., to Mattingly, Inc. Ferro-concrete molding process. 3,705,228, 12-5-72, Cl. 264-256.000.
Mattingly, Denis Albert Edward, to Scragg, Ernest, & Sons Limited. Apparatus for false twisting yarn. 3,635,009, 1-18-72, Cl. 57-77.45.
Mattingly, Denis Albert Edward, to Scragg, Ernest, & Sons Limited. Apparatus for false twisting yarn. 3,657,872, 4-25-72, Cl. 57-77.45.
Mattingly, Frederick William, to Toolmasters Limited. Electric motor. 3,678,311, 7-18-72, Cl. 310-156.000.
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Mattinson, Frederick, to Martin-Thomas Limited. Rope climbing devices. 3,680,839, 8-1-72, Cl. 254-175.500.
Mattis, Daniel C., to Yeshiva University. Optical shutter for laser or maser modulation. 3,664,726, 5-23-72, Cl. 350-160.
Mattis, John A., to Signetics Corporation. Integrated circuit bilateral current source. 3,683,270, 8-8-72, Cl. 323-4.000.
Mattison, Norbert A. Highway cleaner. 3,669,289, 6-13-72, Cl. 214-353.000.
Mattison, Philip L.; and Swanson, Ronald R., to General Mills, Inc. Process of extracting copper with certain substituted 2-hydroxybenzophenoxymes. 3,655,347, 4-11-72, Cl. 23-312.
Mattix, Jacob M. Concealed coner lock clip system. 3,688,459, 9-5-72, Cl. 52-285.000.
Mattix, Rodney: *See—*
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Mattsson, Bo Gunnar, to Aktiebolaget Electrolux. Multi-purpose vacuum cleaner nozzle. 3,659,312, 5-2-72, Cl. 15-319.
Mattsson, Erik Harry; and Wurth, Hans Ulrich. Method for anchoring fasteners in cellular plastic materials and joints obtained thereby. 3,650,878, 3-21-72, Cl. 161-48.
Mattsson, Leif Erling M.; and Fredriksson, Karl Garry Kenneth, to Jonsereds Fabrikers Aktiebolag. Safety means for power-driven chain saws. 3,664,390, 5-23-72, Cl. 143-32.
Mattsson, Mats Erik: *See—*
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Mattsson, Mats Erik; and Lindelow, Claes-Goran, to Svenska Dataregister AB. Device for a business machine. 3,672,566, 6-27-72, Cl. 235-60.490.
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Mattucci, Anna Maria; and Perrotti, Emilio, to Snam Progetti S.p.A. Molybdenum catalysts for the oxidation of unsaturated compounds in liquid phase. 3,668,227, 6-6-72, Cl. 260-429.
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Matuska, James E. Quickly removable, retractable snubbed pivot pin mechanism. 3,694,851, 10-3-72, Cl. 16-49.000.
Matuska, James E. Quickley removable pivotal and snubbed storage bin. 3,700,199, 10-24-72, Cl. 248-292.000.
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Matwey, Paul, to GAF Corporation. Print receiving tray design. 3,658,323, 4-25-72, Cl. 271-86.
Matysek, John J., to Remote Controls Corporation. Modular timer for use in traffic control systems. 3,644,884, 2-22-72, Cl. 340-40.
Matzen, Max, to Klockner-Humboldt-Deutz Aktiengesellschaft. Centrifugal speed governor, especially for prime movers. 3,672,385, 6-27-72, Cl. 137-53.000.
Matzen, Walter T.; and Spence, Hilton Wayne, to Texas Instruments, Incorporated. Optical switching for keyboard encoder. 3,668,407, 6-6-72, Cl. 250-229.
Matzner, Edwin A., to Monsanto Company. Dehydrogenating normal paraffins with improved catalyst. 3,632,661, 1-4-72, Cl. 260-683.3.
Matzner, Edwin A.; and Mitchell, Robert S., to Monsanto Company. Method of scale inhibition using phosphonate derivatives of isocyanuric acid. 3,654,169, 4-4-72, Cl. 252-180.
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Matzner, Markus, to Union Carbide Corporation. Block copolycarbonates containing polylactone blocks and dihydric phenol polycarbonate blocks. 3,641,200, 2-8-72, Cl. 260-860.
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Matzner, Markus; McGrath, James E.; Manyik, Robert M.; and Walker, Wellington E., to Union Carbide Corporation. Lactam polymerization with diacyl methane initiators. 3,696,075, 10-3-72, Cl. 260-78.001.
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., to Union Carbide Corporation. Aromatic acid diamides of diamino diphenyl sulfones. 3,696,131, 10-3-72, Cl. 260-397.600.
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., to Union Carbide Corporation. Monoamides of monoamino diaryl sulfones. 3,696,132, 10-3-72, Cl. 260-397.600.
Matzner, Markus; Noshay, Allen; and Barclay, Robert, Jr., to Union Carbide Corporation. Thermoplastic siloxane-polyester block copolymers. 3,701,815, 10-31-72, Cl. 260-824.00r.
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Mau, Kurt; deceased (by Mau, Kathe; and Mau, Edith; heirs); and Seitz, August, to FA.G. Siegle & Co. GmbH. Molybdenum red and molybdenum orange pigments and process of making the same. 3,682,672, 8-8-72, Cl. 106-297.000.
Mauch, Harold A.; and Miller, Robert N., to International Computer Products, Inc. Method and apparatus for processing data. 3,685,021, 8-15-72, Cl. 340-172.500.
Maucher, Paul, to Luk Lamellan und Kupplungsbau GmbH. Clutch disc. 3,684,070, 8-15-72, Cl. 192-106.200.
Maucher, Paul; and Steeg, Klaus, to Luk Lamellen und Kupplungsbau GmbH. Clutch plate supported by stressed leaf springs. 3,695,404, 10-3-72, Cl. 192-70.180.
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Maue, Marilyn J. Timepiece for identifying time by color. 3,702,531, 11-14-72, Cl. 58-126.00e.
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Maulding, Donald Roy, to American Cyanamid Company. Method of preparation of substituted diaryl oxalates. 3,704,309, 11-28-72, Cl. 260-479.00s.
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Maure, Douglas R., to Optical Memory Systems, Inc., mesne. Read only memory. 3,656,120, 4-11-72, Cl. 340-173.

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Maurey, Joseph E., to Maurey Manufacturing Corporation. Adjustable pulley construction. 3,661,023, 5-9-72, Cl. 74-230.17.
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Maurhoff, Gerhard: *See*—
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Maurice, Guy; and Jullien, Yves, to Societe pour l'Equipement des Industries Chimiques Speichim. Valve on a column for exchange between fluids. 3,696,832, 10-10-72, Cl. 137-512.100.
Maurice, Jean; and Piret, Jean, to Regie Nationale des Usines Renault and Automobiles Peugeot. Unit power plants. 3,636,795, 1-25-72, Cl. 74-606. .
Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Assisted control especially for automobile vehicles. 3,638,425, 2-1-72, Cl. 60-54.5.
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Maurice, Jean, to Societe Francaise de l'Electro-Resistance. Fine-adjustment potentiometer. 3,665,364, 5-23-72, Cl. 338-180.
Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Continuous transmission, especially for automobile vehicles. 3,667,321, 6-6-72, Cl. 74-682.
Maurin, Jean: *See*—
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Maurischat, Gunter: *See*—
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Mauro, Guy, to Transvac Electronics Corporation. Vending machine. 3,664,476, 5-23-72, Cl. 194-58.
Mauro, Thomas G. Permanent garbage disposal apparatus for disposal of large volumes of garbage. 3,695,520, 10-3-72, Cl. 241-43.000.
Mauron, Gerard, to Automobiles Peugeot and Regie Nationale des Usines Renault. Safety switch and system for a vehicle. 3,649,786, 3-14-72, Cl. 200-61.53.
Maurukas, Frank A., to CPC International Inc. Furan no-bake foundry binders. 3,644,274, 2-22-72, Cl. 260-41.
Maury, Lawson D. Compound mitering device. 3,695,318, 10-3-72, Cl. 144-35.000.
Maury, Louis, to Lacroix, E. Rocket fuse with delayed-action arming. 3,633,511, 1-11-72, Cl. 102-80.
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Herzhoff, Peter; Platz, Stephan; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Browatzki, Kurt; and Gref, Hans, 3,635,192.
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Maus, Nolan Keith: *See*—
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Maus, Otfrid; Mueller, Martin; and Mueller, Robert, to Schenck, Carl, Maschinenfabrik GmbH. Apparatus for controlling a balancing machine. 3,698,828, 10-17-72, Cl. 408-11.000.
Mauser Kommanditgesellschaft: *See*—
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Mauser-Werke AG: *See*—
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Mausner, Marvin L.: *See*—
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Maute, Robert L., to Monsanto Company. Removal of oxazole by metal complex formation. 3,686,263, 8-22-72, Cl. 260-465.300.

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Mauthe, Gerhard, to Aktiengesellschaft Brown, Boveri & Cie. Gas blast power circuit breaker for high operating currents. 3,676,624, 7-11-72, Cl. 200-148.00b.

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Mautz Paint & Varnish Company: *See—*
Stewart, Dair J., 3,640,889.

Mautz, William J., Sr. Jiffy vehicle brake tester pad removal tool. 3,678,561, 7-25-72, Cl. 29-267.000.

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Mauz, Otto; and Prinz, Eberhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Stabilized moulding compositions from polymers of]31-olefins. 3,636,035, 1-18-72, Cl. 260-45.95.

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Mawson, Desmond Leonard; and Malone, Bernard, to Hooker Chemical Corporation. Mould making machines. 3,664,406, 5-23-72, Cl. 164-161.

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Maxam, David R.: *See—*
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Maxam Power Limited: *See—*
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Maxey, Alexander R., to Echo Science Corporation. Helical scanning assembly for video tape machine. 3,693,227, 9-26-72, Cl. 29-200.00p.

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Maxey, Whorley William: *See—*
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Maxfield, John Raymond: *See—*
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Maxime, Jacques Paul Robert; and Maurel, Andre Bernard, to Etat Francais. Gunnery control device for turret-mounted firearm. 3,677,134, 7-18-72, Cl. 89-41.00e.

Maximenko, Nikolai Spiridonovich: *See—*
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Maximov, Vadim Yakovlevich: *See—*
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Maximov, Viktor Fedorovich. Electrode for pulse high-power electrovacuum devices. 3,662,210, 5-9-72, Cl. 313-311.

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Maximovich, Michael J., to PPG Industries, Inc. Process for preparing polycarbonates. 3,689,462, 9-5-72, Cl. 260-77.50d.

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Maxon, Glenway, Jr.: *See—*
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Maxon, Glenway, Jr. Dump body for concrete mix. 3,667,738, 6-6-72, Cl. 259-171.000.

Maxon, Glenway, Jr.; and Wright, William H. B., III. Machine for flame cutting gear racks. 3,695,599, 10-3-72, Cl. 266-23.00k.

Maxon Pre-Mix Burner Corporation: *See—*
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Maxon, Rodney Robert: *See—*
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Maxson Automatic Machinery Company: *See—*
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Maxson, Orwin G.; and Hunt, Mack W., to Continental Oil Company. Dyeable polyolefin compositions. 3,639,373, 2-1-72, Cl. 260-93.7.

Maxwell, Albert H., Jr., to Westinghouse Electric Corporation. Reverse-direction tape translation. 3,678,484, 7-18-72, Cl. 340-174.10h.

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Maxwell, Bryce, to USM Corporation. Method and apparatus for mixing and extruding visco-elastic materials. 3,689,181, 9-5-72, Cl. 425-207.000.

Maxwell, Donald E.; and Mazzochi, Roger W., to United States of America, Army. Diode-switched R-F attenuator. 3,646,484, 2-29-72, Cl. 333-81.

Maxwell, Donald L.; and Nyberg, Philip E., to General Mills, Inc. Raisin coloring process. 3,671,265, 6-20-72, Cl. 99-104.000.

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Maxwell, Edward Ralph. Portable tree stand. 3,703,939, 11-28-72, Cl. 182-107.000.

Maxwell, Herris M.; Sowers, John E.; and Laidman, John Neil, to Bethlehem Steel Corporation. Method of galvanizing. 3,639,142, 2-1-72, Cl. 117-51.

Maxwell, Hugh W. Photographic processing apparatus. 3,673,944, 7-4-72, Cl. 95-89.00r.

Maxwell, J. H., Mfg., Inc.: *See—*
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Maxwell, John: *See—*
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Maxwell, John Russell, to Technequip Limited. Method of mineral separation by froth flotation. 3,701,421, 10-31-72, Cl. 209-164.000.
Maxwell, Milton, to Colgate-Palmolive Company. Container fill weight monitoring system. 3,697,754, 10-10-72, Cl. 250-83.300.
Maxwell, Richard R.: *See—*
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May, Carl Jerome, Jr., to Bell Telephone Laboratories, Incorporated. Digital threshold detector. 3,706,091, 12-12-72, Cl. 340-347.0dd.
May, Charles C. Power actuated hair teasing apparatus with flexible cable drive. 3,701,354, 10-31-72, Cl. 132-11.00a.
May, Charles E.: *See—*
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May, Clayton A., to Shell Oil Company. Unsaturated polyesters from epoxides and ethylenically unsaturated monocarboxylic acid mixed with solid epoxide resin. 3,637,618, 1-25-72, Cl. 260-83.
May, David H.: *See—*
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May, Denis Ronald William, to Hanger, J. E., and Company Limited. Angular adjustment devices for use in artificial limb manufacture. 3,671,978, 6-27-72, Cl. 3-1.000.
May, Denis Ronald William, to Hanger, J. E., and Company Limited. Knee joints for artificial legs. 3,694,823, 10-3-72, Cl. 3-27.000.
May, Donald L., to Centron Engineering Inc. Correlation spectrometer. 3,694,086, 9-26-72, Cl. 356-51.000.
May, Eugene Noel, to J/B Industries, Inc. Pressure-responsive control device for electrical circuit. 3,665,132, 5-23-72, Cl. 200-83.
May, Frederick T., to International Business Machines Corporation. Radix conversion circuits. 3,700,872, 10-24-72, Cl. 235-155.000.
May, George; and Lill, Melvin H., to FMC Corporation. Truing apparatus. 3,692,081, 9-19-72, Cl. 157-13.000.
May, Gerald L., to Goodrich, B. F., Company, The. Expansible collar. 3,648,312, 3-14-72, Cl. 9-9.
May, Gerald L. Inflatable closure. 3,693,914, 9-26-72, Cl. 244-102.00r.
May, Gordon H.: *See—*
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May, Gordon H. Percussion instrument. 3,659,032, 4-25-72, Cl. 84-1.040.
May, Gordon Herbert, to International Business Machines Corporation. Roller structure for card reader. 3,671,719, 6-20-72, Cl. 235-61.11d.
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May, Kenneth Nathaniel; and Farr, Allison James, to Calgon Corporation. Treatment of cooked poultry. 3,689,283, 9-5-72, Cl. 99-107.000.
May, Kurt; and Johannes, Gunter, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic vehicle tire. 3,693,687, 9-26-72, Cl. 152-209.000.
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Mayaud, Edith Ellen, to RCA Corporation. Photographic method for producing a cathode-ray tube screen structure. 3,661,580, 5-9-72, Cl. 96-36.1.
Maybach, Richard Lee, to Bell Telephone Laboratories, Incorporated. Signal amplitude and phase homodyne. 3,665,304, 5-23-72, Cl. 324-85.
Mayberry, Billy T.; and Sirrine, Edwin B., to Sperry Rand Corporation. Monitoring apparatus. 3,668,701, 6-6-72, Cl. 340-409.000.
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Maycock, William E, to Fiber Industries, Inc. Polyesters having increased whiteness. 3,697,479, 10-10-72, Cl. 260-47.00c.
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Maydan, Dan, to Bell Telephone Laboratories, Incorporated. Intracavity modulator. 3,703,687, 11-21-72, Cl. 331-94.500.
Mayden, Frank E., 1/2 to Mayden, Theresa E. Car washing assembly with pressurized water supply. 3,667,852, 6-6-72, Cl. 401-263.000.
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Mayer, Edward F., to Xerox Corporation, mesne. Electrostatic printing and developing. 3,672,884, 6-27-72, Cl. 96-1.0ly.
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Mayer, Edward H.; and Oliver, Evan M., to Bethlehem Steel Corporation. Nitride strengthened steel. 3,677,834, 7-18-72, Cl. 148-36.

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Mayer, Endre A.; and Teitelbaum, Bernard R., to Bendix Corporation, The. Fluid flow device for a shock absorber. 3,672,474, 6-27-72, Cl. 188-282.000.
Mayer, Endre A., to Bendix Corporation, The. Opposing control vortex valve. 3,674,044, 7-4-72, Cl. 137-81.500.
Mayer Flood Systems Inc.: *See—*
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Mayer, Gary T.; and Scott, Daniel G., to Westinghouse Air Brake Company. Fluid pressure and dynamic brake interlock valve with variable load control. 3,639,010, 2-1-72, Cl. 303-22.
Mayer, Georg, to Mayer KG, Maschinenbau, Firma. Adjustable pot holding means for potting and repotting machines. 3,655,064, 4-11-72, Cl. 211-78.
Mayer, Georg; and Glaser, Egon, to Sprecher & Schuh AG. Cabinet, particularly for electrical installations. 3,655,254, 4-11-72, Cl. 312-257.
Mayer, Georg, to Mayer KG, Firma. Plate for controlling the filling density in plant containers before or during an automatic making of holes for plants in the filling compound. 3,659,380, 5-2-72, Cl. 47-1.
Mayer, George L., Jr.; and Dobbins, David L., to Coded Signatures, Inc. Data encoding and decoding apparatus and method. 3,676,000, 7-11-72, Cl. 355-52.000.
Mayer, Gerald C. Automatic batch weigher. 3,685,602, 8-22-72, Cl. 177-70.000.
Mayer, Gerald C.; Vaka, Gregory A.; Zuckermann, Raymond S.; and Jarman, Alonzo B., to Litton Industrial Systems, Inc. Failsafe decelerating system. 3,701,414, 10-31-72, Cl. 198-203.000.
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Mayer, Karl. Knitted crepe fabric and method of manufacture. 3,691,796, 9-19-72, Cl. 66-193.000.
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Mayer, Mayer, Jr.; Kotter, James I.; Salaun, Harold L., Jr.; and Brown, Roger S., to United States of America, Agriculture. Apparatus for producing core yarn. 3,696,600, 10-10-72, Cl. 57-5.000.
Mayer, Mayer, Jr.; and Baril, Albert, Jr., to United States of America, Agriculture. Method for electrostatically bulking and impregnating staple yarns. 3,707,024, 12-26-72, Cl. 28-75.0wt.
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Mayes, Nathan; and Green, Joseph, to Thiokol Chemical Corporation. Nitroso terpolymers and their preparation. 3,657,336, 4-18-72, Cl. 260-539.
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Mayes, Nathan; and Falk, Robert A., to Thiokol Chemical Corporation. Nitroso ether polymers. 3,679,755, 7-25-72, Cl. 260-615.0bf.
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Maynard, Baylor H., Jr., to Versadome Corporation. Modular tubular-skeleton building adapted to be readily assembled and disassembled and re-assembled. 3,690,078, 9-12-72, Cl. 52-86.000.
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Mayo, Cecil J.; and Kilburg, Ronald J., to Insul-8-Corporation. Composite electrical conductor. 3,699,275, 10-17-72, Cl. 191-29.000.
Mayo, Edmund S., to Holotron Corporation. Bleaching of holograms. 3,642,472, 2-15-72, Cl. 96-27.
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Mayo, Henry C., to United States of America, Army. Quick-release, self-locking hook. 3,653,101, 4-4-72, Cl. 24-241.
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Maziarka, Robert J. Imprinter including tapered roller traveling in an arcuate path. 3,665,854, 5-30-72, Cl. 101-269.000.

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Mazuir, Rene A.; and Hoffmann, Daniel E., to Societe Anonyme des Hauts Fourneaux de la Chiers. Method of making a tubular member by helically coiling a metallic strip, tubular member produced by this method and device for carrying out this method. 3,707,10, 12-26-72, Cl. 138-154.000.

Mazur, Conrad F., to Standard Oil Company. Extrusion coating of a heat fusible foam sheet. 3,669,794, 6-13-72, Cl. 156-244.

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Mazur, Jiri, to Meopta Preror. Fold line bellows. 3,636,848, 1-25-72, Cl. 95-39.

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Mazur, Robert H.; and Jones, David A., Jr., to Searle, G. D., & Co. N-acyl phenylalanine amides. 3,707,559, 12-26-72, Cl. 260-558.00a.

Mazza, Joseph Peter. Removal of titanium from monazite ores. 3,676,081, 7-11-72, Cl. 23-327.000.

Mazza, Lamberto, to Industrie A. Zanussi S.p.A. Sectional frame for refrigerators. 3,631,644, 1-4-72, Cl. 52-220.

Mazza, Lamberto, to Industrie A. Zanussi S.p.A. Stem for cocks. 3,658,288, 4-25-72, Cl. 251-96.

Mazza, Lamberto, to Becchi S.p.A. Cooking stove. 3,659,580, 5-2-72, Cl. 126-37.

Mazza, Lamberto, to Industrie A. Zanussi S.p.A. Household device for washing, smoothing and drying articles of apparel, underwear clothing and the like. 3,664,159, 5-23-72, Cl. 68-205.

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Mazza, Lamberto, to Industrie A. Zanussi S.p.A. Safety device for sensing preventing radiation leakage from microwave-producing apparatus. 3,679,908, 7-25-72, Cl. 307-117.000.

Mazza, Lamberto, to Industrie A. Zanussi S.p.A. Device for household use, for washing and drying linen, articles of apparel and the like. 3,683,651, 8-15-72, Cl. 68-20.

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Mazzarins, Janis, to General Motors Corporation. Multi-purpose bulldozer assembly. 3,648,782, 3-14-72, Cl. 172-804.

Mazzarins, Janis, to General Motors Corporation. Suspension system for crawler tractor. 3,659,669, 5-2-72, Cl. 180-9.5.

Mazzarins, Janis, to General Motors Corporation. Scraper. 3,670,430, 6-20-72, Cl. 37-127.000.

Mazzarins, Janis, to General Motors Corporation. Earth moving vehicle having tandem bowls. 3,688,420, 9-5-72, Cl. 37-127.000.

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Haucke, Paul A.; Rosenfeld, Seymour; Schwab, Ronald W.; and Mazzeo, Charles F., 3,664,173.

Mazzini, Angelo. Apparatus for atomizing liquids by centrifugation. 3,702,679, 11-14-72, Cl. 239-222.110.

Mazziotti, Ralph. Stay-rite flex joint. 3,691,788, 9-19-72, Cl. 64-7.000.

Mazzochi, Roger W.: *See*—
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Mazzola, Sergio J.: *See*—
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Mazzolini, Corrado: *See*—
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Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,623.

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Mazzone, Charles P., to Stevens, J. P., & Co., Inc. Apparatus for dephasing textured yarn. 3,667,090, 6-6-72, Cl. 28-1.0cf.

Mazzone, Claudio, to Olivetti, Ing. C., & C., S.p.A. Carriage for carrying and vertically moving tumblers or frames relative to a treatment of processing line. 3,662,903, 5-16-72, Cl. 214-1.

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Mazzucato, Gino: *See*—
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MB Associates: *See*—
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Mc Adoo, John D., Jr.: *See*—
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Mc Allister, Jack G. Roof structure. 3,676,976, 7-18-72, Cl. 52-747.000.

Mc Allister, Lindsay G., to Commonwealth of Australia, care of Secretary Department of Supply, The. Acoustic sounder. 3,675,191, 7-4-72, Cl. 340-1.00r.

Mc Alpin, Silvan E., to Mobil Oil Corporation. Depth sounder digitizer. 3,696,326, 10-3-72, Cl. 340-3.00r.

Mc Ardle, Edward J.: *See*—
Colgan, Charles E.; and Mc Ardle, Edward J., 3,641,659.

Mc Ardle, John Joseph; and Rauck, Robert Louis, to RCA Corporation. High voltage hold down circuit. 3,697,800, 10-10-72, Cl. 315-27.00r.

Mc Cabe, Francis J. Hinge. 3,648,328, 3-14-72, Cl. 16-178.

Mc Cabe, James B. Dental floss reciprocator. 3,667,483, 6-6-72, Cl. 132-92.000.

Mc Cabe, John P., to Instruments Systems Corporation, mesne. Electro-acoustic headset with ratchet. 3,671,685, 6-20-72, Cl. 179-156.000.

Mc Cabe-Powers Body Company: *See*—
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Mc Cafferty, William Eugene, to Airco Inc. Tamping material. 3,666,688, 5-30-72, Cl. 252-503.000.

Mc Caffrey, Lee A., to Goodyear Tire & Rubber Company, The. Reinforced fluorocarbon polyamide containers. 3,645,834, 2-29-72, Cl. 161-92.
Mc Caffrey, Stanley A. Frame anchor tool. 3,631,705, 1-4-72, Cl. 72-293.
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Mc Cann, John J.: *See—*
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Mc Cann, Joseph A.; and Harnden, John D., Jr., to General Electric Company. Hybrid circuit power module. 3,699,402, 10-17-72, Cl. 317-235.00r.
Mc Card, Henry W. Textile heating and cooling. 3,696,601, 10-10-72, Cl. 57-34.0hs.
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Mc Caully, Ronald J., to American Home Products Corporation. 2,3-Dihydro-2-oxo-1H-1,4-benzodiazepine-3-carboxylic acid esters and related compounds. 3,678,043, 7-18-72, Cl. 260-239.300.
Mc Claflin, Gifford G.: *See—*
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Mc Clellan, William; and Stiles, Alvin B., to Du Pont de Nemours, E. I., and Company. Heat treated bismuth molybdate and phosphomolybdate-on-titania catalysts. 3,640,900, 2-8-72, Cl. 252-437.
Mc Closkey, Edward W. Water-flow-controlling apparatus for an automatic irrigation system. 3,642,204, 2-15-72, Cl. 239-63.
Mc Clure, James D.: *See—*
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Mc Coll, Bruce John, to Owens-Illinois, Inc. Tree grasping device. 3,646,976, 3-7-72, Cl. 144-242.
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Mc Combs, Carl. Aligning device for spindle assembly. 3,672,023, 6-27-72, Cl. 29-200.00p.
Mc Connell, John R. Drilling mechanism. 3,687,563, 8-29-72, Cl. 408-39.000.
Mc Connell, John S. Vehicle door lock release method and apparatus. 3,664,211, 5-23-72, Cl. 81-3.00r.
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Mc Cormick, Andrew, to United Kingdom Atomic Energy Authority. Gas chromatography-mass spectrometry. 3,641,339, 2-8-72, Cl. 250-41.9.
Mc Cormick, James B., to Pelam Inc. Protective seal for catheter. 3,683,911, 8-15-72, Cl. 128-214.00r.
Mc Cormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, to American Cyanamid Company. 2-(1,8-Dimethoxy-4-methyl-2-naphthoyl)-3,5-dialkoxyterephthalamic acids. 3,634,500, 1-11-72, Cl. 260-517.
Mc Cormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, to American Cyanamid Company. 2-Formyl-3,5-disubstituted terephthalate esters. 3,636,081, 1-18-72, Cl. 260-473.
Mc Corquodale, Hugh; and Siddons, Phillip Thomas, to Glaxo Laboratories Limited. Removal of a lower carboxylic acid from a solution of cephalexin therein. 3,689,483, 9-5-72, Cl. 260-243.00c.
Mc Cown, Claude A. Lantern holder. 3,652,049, 3-28-72, Cl. 248-310.
Mc Coy, Lowell R.; and Heredy, Laszlo A., to North American Rockwell Corporation. Rotatable electrode structure with conductive particle bed. 3,663,298, 5-16-72, Cl. 136-31.000.
Mc Coy, Michael R.; and Nixon, Glen E., to Electronic Arrays, Inc. Input circuit structure for MOS integrated circuits. 3,673,427, 6-27-72, Cl. 307-202.000.
Mc Coy, Michael R.; and Walther, Terry R., to Electronic Arrays, Inc. Accession system for and in integrated circuit type memories. 3,704,454, 11-28-72, Cl. 340-173.0sp.
Mc Coy, Reginald F. H., to Singer Company, The, mesne. Placement of image on matrix display. 3,697,681, 10-10-72, Cl. 178-6.800.
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Mc Culloch Corporation: *See—*
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Mc Cullough, Edward E., to Thiokol Chemical Corporation. Thrust vector control system. 3,698,642, 10-17-72, Cl. 239-265.230.
Mc Cullough, James D., to Du Pont de Nemours, E. I., and Company. Yarn heating jet. 3,659,350, 5-2-72, Cl. 34-155.
Mc Cune, Robert F.: *See—*
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Mc Daniel, Carl Vance: *See—*
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Mc Dermitt, Floyd P., to Southwire Company. Wire length counter. 3,702,404, 11-7-72, Cl. 250-219.01g.
Mc Dicken, William Norman, to National Research Development Corporation. Ultrasonic scanning apparatus. 3,688,564, 9-5-72, Cl. 73-67.800.
Mc Donald, Robert L.; and Anderson, Edgar L., to Sybron Corporation. Sliding door sterilizer with power actuated seal. 3,694,962, 10-3-72, Cl. 49-477.000.
Mc Donald, Woodward Oakley, to RCA Corporation. Printed circuit balun. 3,678,418, 7-18-72, Cl. 333-26.000.
Mc Donnell, Thomas F.; and Coffee, Ralph E., to Olin Mathieson Chemical Corporation. Spherical rocket propellant casting granules and method of preparation. 3,702,272, 11-7-72, Cl. 149-19.000.
Mc Donough, Thomas B.: *See—*
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Mc Dougall, Ian Leitch; and Lock, Michael Charles, to Imperial Metal Industries (Kynoch) Limited. Electrical conductors. 3,669,905, 6-13-72, Cl. 252-512.000.
Mc Dougall, John D., to Sprague Electric Company. Complementary metal insulator silicon transistor pairs. 3,660,735, 5-2-72, Cl. 317-235.
Mc Dougall, Julia P., to Tranly Walls and Mini Courts (Proprietary) Limited. Non-planar ball rebound wall. 3,697,068, 10-10-72, Cl. 273-29.00a.
Mc Dowell-Wellman Engineering Company: *See—*
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Mc Elhare, John J.: *See—*
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Mc Elroy, Philip W. Concrete pump. 3,659,970, 5-2-72, Cl. 417-516.
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Mc Elvy, Howell T.: *See—*
Mac Daniel, Gene; and Mc Elvy, Howell T., 3,673,033.
Mc Evoy, William J. Fast-averaging noise-summing signal detector. 3,681,698, 8-1-72, Cl. 325-476.000.
Mc Fadden, Bruce R. Card reader. 3,704,360, 11-28-72, Cl. 235-61.11.
Mc Fadyen, Robert J. Low level an detector and automatic gain control network. 3,691,465, 9-12-72, Cl. 325-319.000.
Mc Farland, Frederick R.; and Diffenderfer, Walter L., to K-D Manufacturing Company. Clamping tool. 3,654,686, 4-11-72, Cl. 29-280.
Mc Farlane, Cyril Stephen: *See—*
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Mc Farlane, Samuel B., Jr.; Burdige, Joseph; and Alexander, Norman E., to Electroprint, Inc., mesne. Aperture-controlled electrostatic printing system employing ion projection. 3,645,614, 2-29-72, Cl. 355-3.
Mc Gann, Elton Y.: *See—*
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Mc Gann, Rodney: *See—*
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Mc Garr, John J., to USM Corporation. Process for forming a thin microporous sheet material. 3,679,783, 7-25-72, Cl. 264-53.000.

Mc Gaughey, Robert S.; and Simboli, Paul, to McCreary Tire & Rubber Company. Abrasion and corrosion resistant composite structural materials and the like. 3,646,651, 3-7-72, Cl. 29-130.

Mc Gee, John K., to Giddings & Lewis Machine Tool Company. Readout system for selective display of digital data on time-shared conductors. 3,648,244, 3-7-72, Cl. 340-172.5.

Mc Gee, Michael H. Toilet training assembly for cats. 3,688,742, 9-5-72, Cl. 119-1.000.

Mc Gee, Thomas W.: *See—*
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Mc Geough, Patrick L.; Gilbert, George J.; and Henrikson, Donald F., to Microwave Semiconductor Corporation. Microwave package for holding a microwave device, particularly for strip transmission line use, with reduced input-output coupling. 3,651,434, 3-2172, Cl. 333-84.

Mc Gibbon, Graeme: *See—*
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Mc Gill, Howard L., to Schlumberger Technology Corporation. Well packer apparatus. 3,645,334, 2-29-72, Cl. 166-120.

Mc Grady, Seamus: *See—*
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Mc Grath, John W., to Western Electric Company, Incorporated. Diagnostic and repair system for semiconductors. 3,702,437, 11-7-72, Cl. 324-158.00f.

Mc Grath, Joseph J.: *See—*
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Mc Guire, Robert J.: *See—*
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Mc Henry, Howard Thomas: *See—*
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Mc Henry, Robert J.: *See—*
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Mc Ilvaine, Robert L.; and Kent, Roger E., to National Dust Collector Corporation. Gas scrubber. 3,656,279, 4-18-72, Cl. 55-240.

Mc Innis Equipment Limited: *See—*
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Mc Intier, Edwin Ralph, to Sweitzer, Richard G. Molding apparatus. 3,652,076, 3-28-72, Cl. 269-24.

Mc Intire, Elmer L.: *See—*
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Mc Intire, Hoy C.; and Vanorsdel, John R., to Battelle Development Corporation, The. Method of making high-density sintered metal. 3,671,228, 6-20-72, Cl. 75-207.

Mc Intosh, Harold A.; Slocum, Gordon K.; and Koskolos, Nick J., to Robertshaw Controls Company and Intertherm, Inc. Thermocouple control system. 3,652,195, 3-28-72, Cl. 431-21.

Mc Intosh, Lionel D.; and Weber, Daniel E. Vehicle exhaust emissions analyzer. 3,696,247, 10-3-72, Cl. 250-83.30h.

Mc Intosh, Michael D., to Landis Tool Company, mesne. Noise immune flip-flop circuit arrangement. 3,673,434, 6-27-72, Cl. 307-247.000.

Mc Intosh, Ronald C.: *See—*
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Mc Intyre, Hubert L. Fishing float motor support. 3,665,534, 5-30-72, Cl. 9-2.

Mc Intyre, John S.: *See—*
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Mc Intyre, Maurice J., to Skagit Corporation. Lift truck with rotatable carriage. 3,688,929, 9-5-72, Cl. 214-78.000.

Mc Jones, Robert W. Priority charging system. 3,653,394, 4-4-72, Cl. 137-114.

Mc Kay, Edwin C., to Climate Conditioning Corporation. Method for fabricating elbow gores. 3,651,197, 3-21-72, Cl. 264-230.

Mc Kee, Arthur G., & Company: *See—*
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Mc Keen, Leighton R., to Farah Manufacturing Company, Inc. Reciprocating motion control device. 3,688,715, 9-5-72, Cl. 112-219.00r.

Mc Keithan, Wesley L., to Westinghouse Electric Corporation. High voltage current limiting protective device. 3,648,211, 3-7-72, Cl. 337-202.

Mc Kendrick, Lorne J. Load balancer. 3,669,411, 6-13-72, Cl. 254-168.

Mc Kenna, Robert P.; and Williamson, John E. Curtain rod, pulley case, and support combination. 3,653,091, 4-4-72, Cl. 16-94.

Mc Kenzie, John, to Leesona Limited. Winding machine. 3,677,482, 7-18-72, Cl. 242-18.00r.

Mc Kinley, Walter E.: *See—*
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Mc Kinnon, Eugene T.: *See—*
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Mc Kusick, Blaine Chase, to Du Pont de Nemours E. I., and Company. 2(Substituted phenyl)-8H-pyrazolo-(5,1-a) isoindol-8-one. 3,700,689, 10-24-72, Cl. 260-310.00r.

Mc Lain, Charles D., to Olin Corporation. Copper base alloy. 3,661,568, 5-9-72, Cl. 75-157.500.

Mc Lallen, Dewitt L., Jr.: *See—*
Reistle, Carl E., III; Childers, Thomas W.; Burkhardt, Joseph A.; Mc Lallen, Dewitt L., Jr.; and Woolley, Carroll A., 3,653,435.

Mc Larty, Jack Lowrie, to Universal Oil Products Company. Method for compensating for resin shrinkage in the production of a filament wound article. 3,669,782, 6-13-72, Cl. 156-84.000.

Mc Larty, Shirley, to Cary Products, Inc. Louver construction. 3,701,311, 10-31-72, Cl. 98-110.000.

Mc Laughlin, Bernard J.; Petri, George W.; and De Moor, Raymond J., to International Telephone and Telegraph Corporation. Wrought steel conduit bushings. 3,643,203, 2-15-72, Cl. 339-14.

Mc Laughlin, John: *See—*
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Mc Lean, Robert E., to Rival Manufacturing Company. Can opener with a hand lever removable from the frame by the position of same. 3,670,410, 6-20-72, Cl. 30-4.00r.

Mc Lean, Robert E., to Rival Manufacturing Company. Electric can opener with removable hand lever and frame engaging pin assembly. 3,689,997, 9-12-72, Cl. 30-4.00r.

Mc Leman, Alexander D., to British Steel Corporation. Apparatus for detecting objects. 3,665,202, 5-23-72, Cl. 250-237.00r.

Mc Leod, Gerald L., to Itek Corporation. Photographic reflex process. 3,663,225, 5-16-72, Cl. 96-48.000.

Mc Leod, John P. Grinding or polishing or glazing machine. 3,694,965, 10-3-72, Cl. 51-93.000.

Mc Leod, Melvin Elliott; Deutschman, John Edward; Percival, Herbert Warren; and Spoel, Han, to Alcan Research and Development Limited. Recovery of metal from dross. 3,676,105, 7-11-72, Cl. 75-68.00r.

Mc Lintic, William James, to British Lighting Industries Limited. Lighting system. 3,665,179, 5-23-72, Cl. 240-41.300.

Mc Manamon, Joseph Thomas: *See—*
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Mc Manus, Ann: *See—*
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Mc Manus, Ira J. Composite end connection for steel joists. 3,683,580, 8-15-72, Cl. 52-334.000.

Mc Manus, Lynn S., to Baker Perkins Inc. Rack loading and unloading apparatus. 3,700,121, 10-24-72, Cl. 214-16.40c.

Mc Millan, Edward Bellamy. Lattice aperture antenna. 3,633,206, 1-4-72, Cl. 343-754.

Mc Millan, Robert L. Dual pull veterinary fetal extractor. 3,643,664, 2-22-72, Cl. 128-353.

Mc Millan, William A., to Fishlove, H., & Co. Novelty and amusement faucet. 3,635,469, 1-18-72, Cl. 272-27.

Mc Millan, William A., to Fishlove, H., & Co. Novelty and amusement container. 3,635,470, 1-18-72, Cl. 272-27.

Mc Millen, Bobby E., to AMBAC Industries, Incorporated. Engine starter drive assembly. 3,690,188, 9-12-72, Cl. 74-7.00r.

Mc Millin, John V.; and Miller, D. Larry, to Westinghouse Learning Corporation. Reflected light document reading head. 3,676,690, 7-11-72, Cl. 250-219.00d.

Mc Mullen, Thomas J. Sickle bar mower. 3,633,346, 1-11-72, Cl. 56-17.6.

Mc Nab, Ian Roderick, to International Research & Development Company Limited. Current transfer in homopolar machines. 3,681,633, 8-1-72, Cl. 310-178.000.

Mc Nabney, John C., to Trane Company, The. Air distribution control. 3,690,548, 9-12-72, Cl. 236-1.00c.

Mc Nair, William E.: *See—*
Leslie, Prystup J.; and Mc Nair, William E., 3,687,353.

Mc Nalley, Gerald A.: *See—*
Tangue, Duane R.; and Mc Nalley, Gerald A., 3,692,004.

Mc Namara, Albert C., Jr., to Esquire, Inc. Light reflector system. 3,701,898, 10-31-72, Cl. 240-103.00r.

Mc Namara, Matthew F.: *See—*
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Mc Namara, Thomas F.; and Malakoff, Meyer, to Warner-Lambert Company. Antimicrobial compositions containing 1,1'-hexamethylenebis [5-(2-ethylhexyl)biguanide]dihydrochloride and 4-chloro-2-hydroxyphenyl 2,4-dichlorophenyl ether. 3,639,632, 2-1-72, Cl. 424-36.

Mc Namara, Thomas F.; and Winer, Richard A., to Warner-Lambert Company. Diagnostic method for periodontal disease. 3,691,018, 9-12-72, Cl. 195-103.50r.

Mc Naney, Joseph T. Light beam information presentation control means. 3,636,837, 1-25-72, Cl. 95-4.5.

Mc Neil, Daniel E., to Controls Switch, Inc., mesne. Lens assembly for indicator lights. 3,678,261, 7-18-72, Cl. 240-151.000.

Mc Neil, Raymond F., to Del Monte Corporation. Metal container with removable closure. 3,687,334, 8-29-72, Cl. 220-60.000.
Mc Neill, William H., to Sylvania Electric Products, Inc. Method of applying a radiation shield to a second anode button. 3,666,343, 5-30-72, Cl. 316-20.000.
Mc Nerney, Alfred J., to Sun Oil Company. Purification of aromatic carboxylic acids. 3,649,680, 3-14-72, Cl. 260-524.
Mc Nulty, John G.: *See—*
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Mc Pherson, Donald F., to Xerox Corporation. Sheet feeding mechanism centering device. 3,647,207, 3-7-72, Cl. 271-61.
Mc Pherson, Donald F., to Xerox Corporation. Paper cassette loading device. 3,664,663, 5-23-72, Cl. 271-61.
Mc Pherson, Wilson W. Apparatus for cooling air. 3,705,479, 12-12-72, Cl. 55-223.000.
Mc Quade, John E., Jr., to Esso Research and Engineering Company. Method of forming high pressure decorative laminates having registered color and embossing. 3,661,672, 5-9-72, Cl. 156-220.000.
Mc Queen, James T., 50% to Rush, George L. Simulated golf game. 3,638,944, 2-1-72, Cl. 273-87.
Mc Queen, John; and Minutillo, Leonard D., to Griffith Electronics, Inc. Convergence assembly. 3,689,791, 9-5-72, Cl. 313-77.000.
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Ross, Howard R.; Goodrich, Lloyd D.; and Mc Queen, Norman, 3,696,753.
Mc Rae, Wayne A., to Ionics, Incorporated. Process for controlling the pH of a sulfur dioxide scrubbing system. 3,654,103, 4-4-72, Cl. 204-92.
Mc Vay, Robert D.: *See—*
Maurer, Robert F.; Mc Vay, Robert D.; and Hummel, Donald L., 3,669,581.
Mc Voy, David S., to Coaxial Scientific Corporation. Channel monitoring system for audience survey purposes. 3,703,684, 11-21-72, Cl. 325-31.000.
Mc Whorter, Daniel M., to Kendall Company, The. Surgical drainage tube. 3,683,930, 8-15-72, Cl. 128-349.000.
Mc Williams, Joseph E. Apparatus for loading bagged mail from a loading dock into a highway vehicle. 3,651,963, 3-28-72, Cl. 214-6.
Mc-Graw Edison Company: *See—*
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MCA Technology, Inc.: *See—*
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Johnson, Keith O.; and Broadbent, Kent D., 3,670,114.
McAda, Richard Bernie, to Dow Chemical Company, The. Polyolefin-ethylene/ester copolymer blend compositions. 3,663,663, 5-16-72, Cl. 260-897.
McAdams, Hugh P., Jr., to Litton Precision Products, Inc. Fault monitor for use within a synchro torque system. 3,641,532, 2-8-72, Cl. 340-198.
McAdoo, Charles R., Jr.: *See—*
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McAdoo, Harold L., to McAdoo, Charlotte M. Dental impression tray. 3,654,703, 4-11-72, Cl. 32-17.
McAdow, Walter R., to Mobil Oil Corporation. Metallizing coating compositions containing coated metal flakes. 3,692,731, 9-19-72, Cl. 260-32.80r.
McAdow, Walter R., to Mobil Oil Corporation. Metallizing coating compositions. 3,697,070, 10-10-72, Cl. 106-290.000.
McAfee, Silas E.: *See—*
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McAlister, Donald R.: *See—*
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McAlister, Roy E. Dentral drill. 3,646,678, 3-7-72, Cl. 32-26.
McAlister, Roy E. Vapor pressurized hydrostatic drive. 3,648,458, 3-14-72, Cl. 60-51.
McAlister, Roy E. Microwave puffing of cereal grain and products made therefrom. 3,682,651, 8-8-72, Cl. 99-83.000.
McAllister, Edward W.: *See—*
Allen, Paul V.; and McAllister, Edward W., 3,681,997.
McAllister, George F., Jr., to Ajax Flexible Coupling Co., Inc. Method and apparatus for conveying and separating materials. 3,655,045, 4-11-72, Cl. 209-379.
McAllister, John H., to Textronix, Inc. Apparatus for making light pipes. 3,694,291, 9-26-72, Cl. 156-431.000.
McAllister, Lewis L.; and Popek, Wencil D., to Collins Radio Company. Automatic processing equipment for microelectronic circuits. 3,668,750, 6-13-72, Cl. 29-33.00m.
McAllister, William A., to Westinghouse Electric Corporation. Calcium gallate composition activated by manganese and method of preparation. 3,632,522, 1-4-72, Cl. 252-301.4.
McAllister, William A.; and Sausville, Joseph W., to Westinghouse Electric Corporation. Zinc-magnesium silico-germanate phosphor composition and method of preparing same. 3,644,212, 2-22-72, Cl. 252-301.6.
McAlphine, John F.: *See—*
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McAlpin, Robert, Sir, & Sons Limited: *See—*
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McAlpin, Silvan E., to Mobil Oil Corporation. Transient damper for pneumatic sound source employing an electromagnet for controlling its release valve. 3,647,019, 3-7-72, Cl. 181-.5.
McAlpin, Silvan E., to Mobil Oil Corporation. Depth sounder digitizer. 3,673,554, 6-27-72, Cl. 340-3.00r.
McAlvay, John C., to Webster Electric Company, Inc. Combined tape lifting and capstan drive engagement mechanism. 3,689,076, 9-5-72, Cl. 274-4.00d.
McAnally, William J., III, to United Aircraft Corporation. Variable compression means for a rotary engine. 3,637,332, 1-25-72, Cl. 418-159.
McAnd, Inc.: *See—*
Anderson, Robert Frank, 3,633,395.
McAndrew, France B.; Polly, George W.; and Heinz, Walter E., to Celanese Corporation. Process for the production of oxymethylene copolymers. 3,641,192, 2-8-72, Cl. 260-823.
McAndrew, Francis B.: *See—*
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McAninch, Herbert A.; and Underwood, Herbert N. Hydraulic transmission including temperature controlled orifice. 3,688,982, 9-5-72, Cl. 236-93.000.
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McArn, Angus H. Fluoroplastic encapsulated electrical resistance heaters. 3,663,799, 5-16-72, Cl. 219-523.
McArthur, Colin S.; and Hester, Benny L., to Reynolds, R. J., Tobacco Company. Knitting machine defective needle detector. 3,659,437, 5-2-72, Cl. 66-157.
McArthur, Ralph F.; and Geurts, Melle F., to Kobe, Inc. Fluid operated pump assembly with tandem engines. 3,653,786, 4-4-72, Cl. 417-404.
McArthur, Ralph F.; Kardoes, Max T.; and Geurts, Melle F., to Kobe, Inc. Hydraulic intensifier. 3,659,967, 5-2-72, Cl. 417-397.
McArthur, Ralph F.; and Geurts, Melle F., to Kobe, Inc. Reverse circulation fluid operated pump system. 3,687,573, 8-29-72, Cl. 417-358.000.
McArthur, Rulon D. Adjustable accelerator foot pedal. 3,631,739, 1-4-72, Cl. 74-513.
McAtee, Jon R., to Microdyne Corporation. Microwave varactor-tuned resonator for preselector. 3,703,689, 11-21-72, Cl. 333-82.00b.
McAuley, Edward G., to Procter & Gamble Company, The. Article assembly employing integrated, preoriented detail-defining members. 3,634,965, 1-18-72, Cl. 46-93.
McAuliffe, Gerald K., to International Business Machines Corporation. Fourier digital filter or equalizer and method of operation therefor. 3,679,882, 7-25-72, Cl. 235-156.000.
McAuliffe, Gerald K., to North American Rockwell Corporation. System for phase locking on a virtual carrier. 3,701,948, 10-31-72, Cl. 325-329.000.
McAuliffe, Gerald N., to Outboard Marine Corporation. Seat latch mechanism. 3,692,270, 9-19-72, Cl. 248-384.000.
McAusland, Robert R., to Anderson & Thompson Ski Co., Inc. Boot holder. 3,653,565, 4-4-72, Cl. 224-5.
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McBratnie, Karen Ann, to Hueschen, Gordon. Instructional device for children with learning disabilities. 3,690,020, 9-12-72, Cl. 35-37.000.
McBride, Albert James: *See—*
McDonald, Dean Barry; and McBride, Albert James, 3,685,405.
McBride, Frank J.; and Lindsley, Carl Robert. Apparatus for instructing data system machine operators in the encoding of source documents. 3,701,975, 10-31-72, Cl. 340-172.500.
McBride, Herbert J. Paint brush holder. 3,668,731, 6-13-72, Cl. 15-146.000.
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McBride, Lyle E., Jr.: *See—*
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McBride, Lyle E., Jr., to Texas Instruments, Incorporated. A.C. motor control system utilizing a selectively energizable semiconductor switch means. 3,643,142, 2-15-72, Cl. 318-221.
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McBurnett, James R., to Allis-Chalmers Manufacturing Company. Filter bypass indicator. 3,644,915, 2-22-72, Cl. 340-239.
McCabe, Francis J. Press. 3,690,207, 9-12-72, Cl. 83-627.000.
McCabe, Howard R., to Armstrong Cork Company. Apparatus for applying adhesive to the edges of a slit tube. 3,691,990, 9-19-72, Cl. 118-35.000.
McCabe, John M.: *See—*
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McCabe, John Stanton, to Chicago Bridge & Iron Company. Multiple-layer vessel with crack arresting welded joint. 3,664,379, 5-23-72, Cl. 138-143.
McCabe, John Stanton, to Chicago Bridge & Iron Company. Dynamic boat fendering system. 3,683,631, 8-15-72, Cl. 61-46.000.
McCabe, Leo J., to Mobil Oil Corporation. Dehydrocondensed poly(organo) silicones. 3,664,957, 5-23-72, Cl. 252-49.600.
McCabe, Richard W.; and Johnson, Mark J., to Allegheny Ludlum Steel Corporation. Pretreatment of stainless steel for electroplating. 3,694,326, 9-26-72, Cl. 204-29.000.
McCabe-Powers Body Company: *See—*
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McCafferty, Robert F.; and Riggle, Gerald D., to Akron Standard, division of Eagle-Picher Industries, Inc. Tire bead handling apparatus. 3,690,989, 9-12-72, Cl. 156-403.000.
McCaffrey, Francis Hamnet Garland; McIndoe, Jack Garnett; and Rigg, Herbert, to Canadian Industries Limited. Shotshell wad. 3,670,650, 6-20-72, Cl. 102-42.00c.
McCaffrey, Horace, Jr. Vibratory conveyor. 3,648,828, 3-14-72, Cl. 198-220.
McCahon, John O.; and Byrne, William J., to Smyth Manufacturing Company, mesne. Apparatus for conveying and treating folded book signatures and the like. 3,692,299, 9-19-72, Cl. 270-54.000.
McCain, Lawrence G., to Coleman Company, Inc., The. Lamp assembly. 3,671,739, 6-20-72, Cl. 240-122.000.
McCain Manufacturing Corporation: *See—*
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McCain, Robert L.: *See—*
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McCain, Samuel B., to Vertecs Corporation, Inc. Combined frothpour spray system for resin foams. 3,690,556, 9-12-72, Cl. 239-112.000.
McCain, William B.; and Cosgrove, James F., to McCain Manufacturing Corporation. Caliper system for signature machines. 3,664,655, 5-23-72, Cl. 270-56.
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McCall, Marvin A., to Eastman Kodak Company. Preparation of hydroxyalkyl esters of aromatic acids. 3,647,750, 3-7-72, Cl. 260-475.
McCallister, Kenneth R.; and O'Neal, Thomas P., to Universal Oil Products Company. Reforming catalyst and method of manufacture. 3,654,184, 4-4-72, Cl. 252-442.
McCallum, Donald A., to International Harvester Company. Crop harvester platform. 3,672,134, 6-27-72, Cl. 56-14.400.
McCallum, Donald A., to International Harvester Company. Positive pressure feed wheel. 3,698,332, 10-17-72, Cl. 111-77.000.
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McCamis, Marvin J.; and Gibson, George W., to United States of America, Navy. Electrical connector. 3,680,036, 7-25-72, Cl. 339-60.00m.
McCammon, Thomas A., to Morton-Norwich Products, Inc. Liquid paint booth deflocculant. 3,660,297, 5-2-72, Cl. 252-156.
McCammon, William L.; and Bishop, George E., to Firestone Tire & Rubber Company, The. Propulsion and processing apparatus for flowable materials. 3,684,458, 8-15-72, Cl. 23-285.000.
McCammond, Warren E.: *See—*
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McCandlish, Albanis P., to McGraw-Edison Company. Industrial dry cleaning cooker-still. 3,672,958, 6-27-72, Cl. 202-170.000.
McCann, David M.; and Hrinevich, John, Jr., to General Motors Corporation. Alloy for use in spark plug electrodes. 3,653,881, 4-4-72, Cl. 75-171.
McCann, Gerald P.; and Chase, Frank F., to McCann's Engineering & Mfg. Co. Liquid dispensing device with audible alarm. 3,647,115, 3-7-72, Cl. 222-39.
McCann, John J.: *See—*
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McCann, Joseph A., to General Electric Company. Unitary full wave inverter. 3,654,527, 4-4-72, Cl. 317-234.
McCann, Joseph A., to General Electric Company. Integrated semiconductor rectifiers and processes for their fabrication. 3,706,129, 12-19-72, Cl. 29-580.000.
McCann, Paul A., Jr.: *See—*
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McCann, Thomas A. Machine for lasting shoes. 3,668,727, 6-13-72, Cl. 12-15.
McCann, Thomas J., to Argus Chemical Corporation. Process for the preparation of acyl chlorides and benzaldehydes. 3,691,217, 9-12-72, Cl. 260-408.000.
McCann's Engineering & Mfg. Co.: *See—*
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McCann's Engineering and Manufacturing Company, Inc.: *See—*
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McCanse, James E., to Hesston Corporation. Mower implement for garden tractor. 3,680,292, 8-1-72, Cl. 56-15.800.
McCard, Henry W. Cermet having lubricating properties and process. 3,639,639, 2-1-72, Cl. 117-71.
McCardell, Willard B., Jr.; Bissland, John D.; and Witek, Roman J., Jr, to Essex International, Inc. Electrical connector construction. 3,686,619, 8-22-72, Cl. 339-59.00m.
McCarroll, Raymond A., to Acme Precision Products, Inc. Wheel cover. 3,663,064, 5-16-72, Cl. 301-37.00r.
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Foley, Charles F.; and McCarthy, Charles D., 3,669,452.
McCarthy, Edward J. Push pull roller or stationary type exercising apparatus. 3,664,667, 5-23-72, Cl. 272-83.
McCarthy, James F., to Susquehanna Corporation, The. Hot top liner and refractory ring combination for use with metal hot top casing. 3,660,121, 5-2-72, Cl. 106-38.25.
McCarthy, James F., to Susquehanna Corporation, The. Hot top liner and refractory ring combination for use with metal casing that is hot. 3,660,122, 5-2-72, Cl. 106-38.25.
McCarthy, James W.; and Opferman, Thomas F., to Northrop Corporation. Quick disconnect fluid-electrical coupler. 3,649,949, 3-14-72, Cl. 339-16.
McCarthy, John H.; and Wikman, Andrew O., to Ethyl Corporation. Manufacture of 1,2-dichloroethane. 3,642,921, 2-15-72, Cl. 260-659.
McCarthy, John J.: *See—*
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McCarthy, John P., to Dymo Industries, Inc. Transfer printing addressing machine. 3,657,051, 4-18-72, Cl. 156-384.
McCarthy, Justin H., Jr., to International Business Machines Corporation. Synchronization verifying system. 3,652,987, 3-28-72, Cl. 340-146.1.
McCarthy, Kathleen. Apparatus for cleaning artificial eyelashes and method. 3,645,277, 2-29-72, Cl. 132-33.
McCarthy, Reginald J., to Pershke, Frank F., Limited. Core gripping and release device. 3,667,696, 6-6-72, Cl. 242-72.
McCarthy, Robert P.; and Matlock, Charles W., to Butler Manufacturing Company. Reinforced plastic panel and method of making the same. 3,674,620, 7-4-72, Cl. 161-133.000.
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McCarthy, William H.; Fenn, Raymond W., Jr.; and Crooks, Donald D., to Lockheed Aircraft Corporation. Ternary, quaternary and more complex alloys of Be-Al. 3,664,889, 5-23-72, Cl. 148-11.50r.
McCarthy, William J.; and Ireland, Robert W., to Goodrich, B. F., Company, The. Coal tar and mercaptan-terminated polymer compositions. 3,635,864, 1-18-72, Cl. 260-28.5.
McCartney, Earl J., to Sperry Rand Corporation. Servo control system. 3,707,721, 12-26-72, Cl. 343-759.000.
McCartney, Roger L., to Celanese Coatings Company. Vinylnorbornene/maleic anhydride copolymers and process of preparing same. 3,703,501, 11-21-72, Cl. 260-78.50r.

McCarty, Charles Bruce, to Procter & Gamble Company, The. Textile treating compounds, compositions and processes for treating textiles. 3,649,569, 3-14-72, Cl. 252-543.
McCarty, Clyde W., to General Electric Company. Electronic digital clock power failure indicator. 3,678,499, 7-18-72, Cl. 340-336.000.
McCarty, Frederick J.; and Palopoli, Frank P. Treatment of anoxia with 3,5, dialkyl hydantoins. 3,696,198, 10-3-72, Cl. 424-273.000.
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McCarty, Horace G.; Anderson, Keith B.; and Stoltzfus, David D., to Sperry Rand Corporation. Bale wagon. 3,661,287, 5-9-72, Cl. 214-520.
McCarty, Orin P., to General Electric Company. Monitor circuit for vacuum type electric circuit interrupter. 3,641,359, 2-8-72, Cl. 307-136.
McCarty, Ralph W., to Extrude Home Corporation, mesne. Apparatus for abrading by extrusion and abrading medium. 3,634,973, 1-18-72, Cl. 51-2.
McCarty, William J., to General Electric Company. Air-conditioner. 3,680,328, 8-1-72, Cl. 62-262.000.
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McCarty, William R., Jr.; Dolter, Paul A.; and Swanson, Wesley S., to Eaton Yale & Towne, Inc. Diaphragm assembly for pressure operated pilot controlled shut-off valve. 3,672,627, 6-27-72, Cl. 251-30.000.
McCarty, William V., to General Electric Company. Gas turbine engine gear boxes. 3,631,735, 1-4-72, Cl. 74-405.
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McCauley, John J., to Atlantic Richfield Company. Coal processing. 3,660,269, 5-2-72, Cl. 208-8.000.
McCaully, Ronald J.: *See—*
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McCaully, Ronald J.; and Bell, Stanley C., to American Home Products Corporation. 2-(N-Acetyl-n-acetoxyamino) acetyl) acetyl chloride. 3,632,644, 1-4-72, Cl. 260-544.
McCaully, Ronald J.; and Bell, Stanley C., to American Home Products Corporation. 6-Carbonylamino penicillanic acid derivatives of substituted hydroxyamino-acetic acids,-acetic acid alkyl esters and -acetanilides. 3,652,548, 3-28-72, Cl. 260-239.1.
McCaully, Ronald J.; and Gochman, Carl, to American Home Products Corporation. Process for the preparation of 2-benzimidazole-carboxamides. 3,661,925, 5-9-72, Cl. 260-309.2.
McCaully, Ronald J.; and Conklin, George L., to American Home Products Corporation. N-phenethylacetamides and related compounds. 3,663,605, 5-16-72, Cl. 260-490.000.
McCaully, Ronald J., to American Home Products Corporation. Dialkanoyloxyacetyl penicillanic acid derivatives. 3,678,032, 7-18-72, Cl. 260-239.100.
McCaully, Ronald J.; and Conklin, George L., to American Home Products Corporation. Phenetlamides. 3,689,557, 9-5-72, Cl. 260-559.00b.
McCaully, Ronald J.; and Bell, Stanley C., to American Home Products Corporation. Preparation of N-substituted 2-aminophenyl aryl ketone. 3,691,235, 9-12-72, Cl. 260-545.00r.
McCaw, Thomas M. Differential. 3,703,108, 11-21-72, Cl. 74-713.000.
McCawley, Frank X.; Wyche, Charlie; and Schlain, David, to United States of America, Interior. Electrodeposition of metallic boride coatings. 3,697,390, 10-10-72, Cl. 204-39.000.
McCawley, Joseph F. Toilet seat guide. 3,646,620, 3-7-72, Cl. 4-237.
McCay, Thomas E., to Com-U-Trol Corporation. Remote dialing telephone apparatus. 3,689,702, 9-5-72, Cl. 179-18.0be.
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McClain, Douglas; and Osborn, Lemuel E., to Relax-O-Lounger, Inc. Reclining chair construction. 3,690,723, 9-12-72, Cl. 297-85.000.
McClain, James E.; Parks, Arcus F.; and Scott, Howard L., to Esco Manufacturing Company. Fault indicating apparatus. 3,685,035, 8-15-72, Cl. 340-253.00a.
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McClellan, Bingham A., to McClellan Industries, Inc. Simulated pork rind fishing lure. 3,685,197, 8-22-72, Cl. 43-42.240.
McClellan, Herbert L.; Dom, Harry A.; and Wisebaker, Robert E., to National Machinery Company, The. Forging machine transfer. 3,685,070, 8-22-72, Cl. 10-12.00t.
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McClelland, Donald H.: *See—*
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McClelland, Robert G.; and Raymond, David W., to American Seating Company. Row folding seating structure. 3,667,171, 6-6-72, Cl. 52-9.000.
McClelland, Walter B., to Teletype Corporation. Method and apparatus for memory and display. 3,704,389, 11-28-72, Cl. 315-84.500.
McClenahan, William F. Plumbing installation jig. 3,701,172, 10-31-72, Cl. 4-252.000.
McClenan, Warren G. Cable fitting for ship bulkheads. 3,649,054, 3-14-72, Cl. 285-158.
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McClincy, Richard Joseph; Downing, James Herbert; and Wilson, Benjamin John, to Union Carbide Corporation. Process for the production of elemental silicon. 3,704,094, 11-28-72, Cl. 423-350.000.
McClintock, Eugene P., to Kirsch Company. Feed control for sewing operation. 3,683,830, 8-15-72, Cl. 112-121.150.
McClinton, John. Safety pack-off for wells. 3,703,904, 11-28-72, Cl. 137-504.000.
McClone, Robert J.: *See—*

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McCloskey, Chester M.; Rees, Donald E.; and Hoff, George, to Norac Company, Inc., The. Non-hazardous ketone peroxide polymerization initiators. 3,649,546, 3-14-72, Cl. 252-186.
McCloskey, Chester M.; Rees, Donald E.; and Hoff, George, to Norac Company, Inc., The. Non-hazardous ketone peroxide polymerization initiators. 3,649,548, 3-14-72, Cl. 252-186.
McCloskey, Chester M.; Rees, Donald E.; and Hoff, George L., to Norac Company, Inc., The. Nonhazardous polymerization initiators. 3,692,841, 9-19-72, Cl. 260-610.00r.
McCloskey, Fenimore G.; and Jordan, William Robert, to Columbus Electric Manufacturing Co. Switching devices. 3,675,166, 7-4-72, Cl. 335-164.000.
McCloud, George Randall, to International Telephone and Telegraph Corporation. Switch. 3,646,294, 2-29-72, Cl. 200-144.
McClung, Clifford F. Fluid pump. 3,655,301, 4-11-72, Cl. 417-437.
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McClure, Glenn T., to Westinghouse Air Brake Company. Tread brake apparatus. 3,698,520, 10-17-72, Cl. 188-171.000.
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McClure, James H.; and McCrary, James W., to Materials Technology Corporation. Method of making a positive choke device. 3,686,732, 8-29-72, Cl. 29-157.00c.
McClure, James N. Mobile variable head, hedge trimmer. 3,703,803, 11-28-72, Cl. 56-237.000.
McClure, Orly Bob. Rock crusher. 3,662,963, 5-16-72, Cl. 241-186.
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McColl, Bruce J., to Owens-Illinois, Inc. Roundwood stump processor. 3,643,709, 2-22-72, Cl. 144-3.
McColl, Bruce John. Feed device. 3,688,821, 9-5-72, Cl. 144-3.00d.
McColl, Bruce John, to Owens-Illinois, Inc. Debarking and debranching apparatus. 3,704,733, 12-5-72, Cl. 144-2.00z.
McCollough, John K.; Sanders, Grady H.; and Wethington, Charles A. Bobbin grasper. 3,633,959, 1-11-72, Cl. 294-67.
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McConnell, Edwin J., to Redington Counters, Inc. Counter with thin flexible barrier. 3,686,481, 8-22-72, Cl. 235-92.00c.
McConnell, Harden M.; and Ullman, Edwin F., to Synvar Associates. Oxazolidine-3-oxyl derivatives. 3,668,214, 6-6-72, Cl. 260-307.00f.
McConnell, Harden M.; and Ullman, Edwin F., to Synvar Associates. Oxazolidine-3-oxyl derivatives. 3,673,207, 6-27-72, Cl. 260-307.00f.
McConnell, Kennedy, to Interlake Steel Corporation. Load height sensor. 3,689,774, 9-5-72, Cl. 250-222.00r.
McConnell, Leonard W. Method for selectively projecting refractory material against the lining of basic oxygen furnaces. 3,663,669, 5-16-72, Cl. 264-30.
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McConnell, Richard L., to Eastman Kodak Company. Hot melt composition comprising maleated polyethylene and polyolefin. 3,658,948, 4-25-72, Cl. 260-897.
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McConnell, William M.; Bradley, William H.; Chappel, Howard E.; Whitfield, George P.; and Carey, Raymond L., to Taylor-Wilson Manufacturing Company. Pipe coating apparatus. 3,701,336, 10-31-72, Cl. 118-423.000.
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McCormick, James Benjamin; and Johnson, Leighton Clifford, to Miles Laboratories, Inc., mesne. Applying film of stain to tissue mounted on a moving slide. 3,667,896, 6-6-72, Cl. 8-3.000.
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McCormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, to American Cyanamid Company. 6-Methyl-1,3,10-11-tetrahydroxynaphthacene-2-carboxamide-5,12-quinone. 3,636,063, 1-18-72, Cl. 260-365.
McCormick, Joseph I. Automatic bale hoist. 3,631,989, 1-4-72, Cl. 214-1.
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McCoy, Charles S.; and Haunschild, Willard M., to Chevron Research Company. Reforming process startup. 3,650,944, 3-21-72, Cl. 208-65.
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McCrary, Avis L., to Dow Chemical Company, The. Polyalkylenepolyamines with N-(2-hydroxy-3-sulfopropyl) groups. 3,703,545, 11-21-72, Cl. 260-513.00n.
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McCrea, Alan F., to Robertshaw Controls Company. Supervisory control system having alternate scanning. 3,644,894, 2-22-72, Cl. 340-163.
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McCrink, Edward J. Converter for producing controlled atmosphere for heat treating. 3,632,979, 1-4-72, Cl. 219-368.
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McCullough, Charles D.; and Schroeder, Leo G., to Wilputte Corporation, mesne. Carriage assembly or apparatus utilized in cleaning coke oven doors. 3,633,233, 1-11-72, Cl. 15-93.
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McCullough, Robert W.; Smith, Vernon C.; Barwick, Frederick E., III; and Hobgood, James B., to Collins & Aikman Corporation. Method of printing synthetic linear polyester sheet materials. 3,644,080, 2-22-72, Cl. 8-4.
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McCully, Charles Roland; deceased (by McCully, Roland A.; executor). Medium for ionic transport. 3,704,221, 11-28-72, Cl. 204-295.000.
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McDonnell, John D., to McDonnell Douglas Corporation. Altitude and glide slope track controller. 3,658,280, 4-25-72, Cl. 244-77.
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McDonough, Cletus G., to Molex Products Company. Integrated circuit terminal and method. 3,673,551, 6-27-72, Cl. 339-258.
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McDougal, Harmon A.: *See—*
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McDougal, Harmon A.; and Whitney, Erwin C., to PPG Industries, Inc. Weir assembly. 3,688,796, 9-5-72, Cl. 137-574.000.

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McDougal, Thomas Larry. Inner pack assembly machine. 3,646,857, 3-7-72, Cl. 93-37.

McDougall, Franklin M., to Dema Engineering Co. Liquid pump. 3,655,296, 4-11-72, Cl. 417-214.

McDougall, Ian Leich: *See—*
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McDougall, Lee A.; and Looney, James R., to Esso Research and Engineering Company. Corrosion inhibiting composition containing acetylenic alcohols, a quinoline quarternary compound, and an organic fluoride. 3,658,720, 4-25-72, Cl. 252-392.

McDougall, Lee A.; Rossi, Albert; and Wisotsky, Max J., to Esso Research and Engineering Company. Crude oil recovery method using a polymeric wax inhibitor. 3,693,720, 9-26-72, Cl. 166-304.000.

McDougall, Ranks Hovis, Limited: *See—*
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McDowell, Blake, III: *See—*
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McDowell, Floyd E.: *See—*
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McDowell, Philip R.; and Vekovious, Charles W., to G & B Automated Equipment Limited. Conditioning grinder. 3,667,165, 6-6-72, Cl. 51-35.000.

McDowell, Robert Bruce, to McDowell Electronics, Inc. Impedance matching network for use with sputtering apparatus. 3,704,219, 11-28-72, Cl. 204-192.000.

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McElderry, Charles E. Device for gripping and moving a felled tree. 3,643,847, 2-22-72, Cl. 226-186.

McElroy, Bobby Joe; and Merkley, Joseph Herbert, to Lithium Corporation of America. Preparation of telomeric liquid polybutadiene oils. 3,678,121, 7-18-72, Cl. 260-668.00b.

McElroy, Howard J., to Wyman-Gordon Company, mesne. Block and die shoe clamping assembly. 3,638,473, 2-1-72, Cl. 72-448.

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McElroy, Jerry T., to Automation Industries, Inc. Focused piezoelectric transducer and method of making. 3,666,979, 5-30-72, Cl. 310-9.600.

McElroy, Larry N.; and Shores, Varo A., to Baker Perkins Inc. Direct radially extruding mixer. 3,666,386, 5-30-72, Cl. 425-155.000.

McElwain, John C., to North American Rockwell Corporation. Deformable steering column assembly. 3,691,865, 9-19-72, Cl. 74-492.000.

McEneny, Gregory E.; and Ekstedt, Edward E., to General Electric Company. Fuel spray nozzle. 3,638,865, 2-1-72, Cl. 239-424.

McEnery, John, to Molins Machine Company Limited. Cigarette testing apparatus. 3,703,235, 11-21-72, Cl. 209-79.000.

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McFalls, Richard J., to Cluett, Peabody & Co., Inc. Apparatus for making sleeve plackets. 3,664,283, 5-23-72, Cl. 112-121.150.

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McFarland, Frederick R., to K-D Manufacturing Company. Multisized reversible ratchet wrench. 3,635,654, 1-18-72, Cl. 81-63.

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McFarland, Frederick R.; and Diffenderfer, Walter L., to K-D Manufacturing Company. Disc brake lining thickness gauge. 3,660,905, 5-9-72, Cl. 33-148.

McFarland, Frederick R.; and Diffenderfer, Walter L., to K-D Manufacturing Company. Run out indicator for disc brake. 3,670,419, 6-20-72, Cl. 33-172.00b.

McFarland, Frederick R.; and Diffenderfer, Walter L., to K-D Manufacturing Company. Disc brake rotor thickness wear and score depth gauge and method of using same. 3,691,640, 9-19-72, Cl. 33-147.00f.

McFarland, James D., Jr.: *See—*
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McFarland, Keith E.; Becker, Carl H.; Dell, Harold R.; Hashiguchi, Masao; Lara, Edward D.; and Wong, Herman, to Precision Instrument Company. Laser recording system with both surface defect and data error checking. 3,657,707, 4-18-72, Cl. 340-173.

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McFarland, Norman T., to Glass, Marvin, & Associates. Fluid operated chimes. 3,695,993, 10-3-72, Cl. 161-7.000.

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McFarlane, Arthur Herbert, to Teleflex Limited; formerly Teleflex Products Limited. Adjustable slide members, especially to accomodate vehicle seat travel. 3,661,352, 5-9-72, Cl. 248-429.

McFarlane, Bob B. Marine line holder. 3,650,236, 3-21-72, Cl. 114-218.

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McFarlane, Le Roy F., to Coilform Company Inc. Drain clip for surgical drain. 3,682,180, 8-8-72, Cl. 128-350.00r.

McFarlane, William: *See—*
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McGahren, William James; Porter, John Norman; and Korshalla, Joseph Daniel, to American Cyanamid Company. 1-Hydroxy- and acetyloxy-3-(1-hexenylazoxy)-2-butanone. 3,647,776, 3-7-72, Cl. 260-143.
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McGarrity, William F., to National Steel Corporation. Low carbon high yield strength alloy steel. 3,676,108, 7-11-72, Cl. 75-123.00b.
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McGeary, George Jerome, to Colgate-Palmolive Company. Container filling. 3,654,743, 4-11-72, Cl. 53-88.
McGee, Andrew T. Leverage operated screwdriver. 3,656,523, 4-18-72, Cl. 145-61.
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McGee, Harold, to Hill-Rockford Co. Power screwdriver. 3,642,039, 2-15-72, Cl. 144-32.
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McGee, John K., to Giddings & Lewis, Inc. Linear and circular interpolation contouring control using repeated computation. 3,656,124, 4-11-72, Cl. 340-172.5.
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McGraw, Robert E. Communication system. 3,668,525, 6-6-72, Cl. 325-1.000.
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McGregor, John Cameron, to Atomic Energy of Canada Limited. Nuclear reactor fuel element assembly. 3,674,638, 7-4-72, Cl. 176-81.000.
McGregor, John Peter. Method of manufacturing a mating electrical connector. 3,664,018, 5-23-72, Cl. 29-629.000.
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McGuffie, Alan G., to Westinghouse Electric Corporation. Circuit breaker including ratchet and pawl spring charging means and ratchet teeth damage preventing means. 3,689,721, 9-5-72, Cl. 200-153.0sc.
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McGuire, John S. Pipe joint system. 3,701,548, 10-31-72, Cl. 285-81.000.
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McGuirk, Francis A., Jr., to Wagner Electric Corporation. Triggering circuits for gate-controlled full-wave alternating current semiconductor switches. 3,649,849, 3-14-72, Cl. 307-252.
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McHale, John J.; deceased (by McHale, Mary E.; administratrix), to Du Pont de Nemours, E. I., and Company. Butane diol-terephthalic-isophthalic-sebacic acid. 3,682,863, 8-8-72, Cl. 260-75.00r.
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McIlvaine, Robert L., to National Dust Collector Corporation. Method and apparatus for removing sludge from liquid. 3,677,407, 7-18-72, Cl. 210-83.000.
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Walles, Wilhelm E.; McIntire, Otis R.; Rieke, James K.; and Griggs, Max V., 3,705,041.
McIntosh, Alexander Charles; and Smith, Maurice Irvin, to Tel-Tone Corporation. Highly-selective frequency detection system. 3,636,270, 1-18-72, Cl. 179-84.
McIntosh, Alexander Charles; and Smith, Maurice Irvin, to Tel-Tone Corporation. Service observing system. 3,704,348, 11-28-72, Cl. 179-175.20c.
McIntosh, Brian H.: *See—*
Nystrand, Ernst Daniel; and McIntosh, Brian H., 3,667,468.
McIntosh, Bruce C., to General Electric Company. Non-time indicating number correction circuit. 3,664,117, 5-23-72, Cl. 58-35.00w.
McIntosh, Bruce Cromwell: *See—*
Emerson, Paul Gene; Thamhain, Hans Jurgen; and McIntosh, Bruce Cromwell, 3,664,116.
McIntosh, Bruce Murray, to Imperial Chemical Industries Limited. Apparatus for false twisting yarn. 3,645,082, 2-29-72, Cl. 57-77.45.
McIntosh, Duane E., to General Motors Corporation. Method and apparatus for decoding digital information. 3,691,553, 9-12-72, Cl. 340-347.0dd.
McIntosh, Frank H., to Lectour Communications Corporation. Ear supported radio receiver. 3,644,833, 2-22-72, Cl. 325-361.
McIntosh, Harold A.: *See—*
Rattan, William D.; and McIntosh, Harold A., 3,655,163.
McIntosh, Harold A.; Randolph, Hollis L.; Chambers, William W.; and Graham, Marvin M., to Robertshaw Controls Company. Relay apparatus. 3,636,414, 1-18-72, Cl. 317-148.5.
McIntosh, Harold A., to Robertshaw Controls Company. Modulating valve. 3,643,913, 2-22-72, Cl. 251-11.
McIntosh, Harold A.; Dykzeul, Theodore J.; Slocum, Gordon K.; Rattan, William D.; and Murrell, Donald K., to Robertshaw Controls Company. Pressure temperature relief valve. 3,662,949, 5-16-72, Cl. 236-92.
McIntosh, Harold A.; Slocum, Gordon K.; and Rattan, William D. Pressure and temperature relief valve. 3,662,950, 5-16-72, Cl. 236-92.
McIntosh, Harold A., to Robertshaw Controls Company. Armature control system. 3,665,258, 5-23-72, Cl. 317-132.
McIntosh, Harold A., to Robertshaw Controls Company. Electric motor control device. 3,671,838, 6-20-72, Cl. 318-471.000.
McIntosh, Harold A.; and Slocum, Gordon K., to Robertshaw Controls Company. Mixing valve construction system and method. 3,684,168, 8-15-72, Cl. 236-12.00a.
McIntosh, Ian Arthur; Bowers, Norman John; Bowers, Brian Alfred; and Miles, Bruce Robert, to Air Advantage (Australia) Pty., Limited. Mounting frame for rock breakers and rock implements. 3,682,253, 8-8-72, Cl. 173-23.000.
McIntosh, John Robert: *See—*
Cole, Jack; and McIntosh, John Robert, 3,701,223.
McIntosh Laboratory, Inc.: *See—*
Modafferi, Richard, 3,646,461.
McIntosh, Maurice Dwight; deceased (by Central National Bank; executor), to Day-Glo Color Corporation. Pigment particles and method of producing the same. 3,642,650, 2-15-72, Cl. 252-301.2.
McIntosh, Michael D., to Landis Tool Company, mesne. Control system for a machine tool. 3,655,957, 4-11-72, Cl. 235-151.11.
McIntosh, Michael D., to Landis Tool Company, mesne. Control system for a machine tool. 3,665,279, 5-23-72, Cl. 318-571.
McIntosh, Michael D., to Litton Industries, Inc. Positioning control system having memory for a machine tool. 3,691,357, 9-12-72, Cl. 235-151.110.
McIntosh, Robert H.; and Hull, Ezekiel H., to Predicted Environments, Inc. Sanitizing plastic material. 3,705,235, 12-5-72, Cl. 424-83.000.

McIntosh, Terence D.: *See—*
Howard, John; and McIntosh, Terence D., 3,644,481.

McIntyre, Donald C.: *See—*
Dickey, Marcus P.; and McIntyre, Donald C., 3,644,784.

McIntyre, Glenn Hazel, Jr.: *See—*
Gambale, James Richard; McIntyre, Glenn Hazel, Jr.; and Ranney, Fredrik J., 3,672,825.

McIntyre, Hal Byers; and Hickey, Harvey Edward, to SW Industries, Inc. Device for determining finger hole positions in bowling balls. 3,696,514, 10-10-72, Cl. 33-174.00f.

McIntyre, Hubert L. Motor propelled fishing float. 3,638,256, 2-1-72, Cl. 9-1.

McIntyre, John Armin; and Saylor, Dwight Proffer. Radiation image amplifier and display comprising a fiber optic matrix for detecting and coding the radiation image pattern. 3,652,855, 3-28-72, Cl. 250-71.5.

McIntyre, John F.: *See—*
Todd, Hoyt H.; McIntyre, John F.; and Lewis, Le Roy, 3,647,572.

McIntyre, John S.: *See—*
Harrod, John F.; Knight, Allan R.; and McIntyre, John S., 3,696,052.

McIntyre, John S., to Dow Chemical Company, The. 2H,5H-pyrano(4,3-b)-4(3H),5-diones. 3,634,458, 1-11-72, Cl. 260-343.5.

McIntyre, John W. Granulator. 3,693,893, 9-26-72, Cl. 241-258.000.

McIntyre, Kevin M. Radiological apparatus for measuring length which comprises two relatively movable radio opaque marks. 3,706,883, 12-19-72, Cl. 250-59.000.

McIntyre, Matthew; and Goodfellow, Harry Edwin, to Jervis Corporation. Remote-control mirror system. 3,653,276, 4-4-72, Cl. 74-501.

McIntyre, Maurice J.; and Newton, John R., to Skagit Corporation. Lift truck with horizontally slewable load carrier. 3,680,721, 8-1-72, Cl. 214-75.00r.

McIntyre, Newman, to Christie Manufacturing Company. Apparatus for packaging ribbon-like material. 3,707,063, 12-26-72, Cl. 53-116.000.

McIntyre, William I.: *See—*
Jennings, Francis W.; Mulligan, William; Urquart, George M.; McIntyre, William I.; and Jarrett, William F. H., 3,657,415.

McInvale, George M. Packing removal. 3,650,164, 3-21-72, Cl. 81-8.1.

McIver, Clement L., Jr., to Methods, Incorporated. Lathe turret. 3,677,110, 7-18-72, Cl. 74-813.00l.

McJones, Robert. Storage for compressors blowdown. 3,685,925, 8-22-72, Cl. 417-302.000.

McJones, Robert W. Use of the heat of vaporization of a fuel as an air conditioning medium for a vehicle. 3,640,337, 2-8-72, Cl. 165-23.

McJones, Robert W. Idle adjusting tool. 3,650,155, 3-21-72, Cl. 73-389.

McJones, Robert W. Method and apparatus for rapidly changing the air-fuel ratio of an internal combustion engine from a lean condition to a rich condition. 3,650,254, 3-21-72, Cl. 123-120.

McJones, Robert W. Method and system for reducing oxides of nitrogen and other pollutants from internal combustion engines. 3,650,255, 3-21-72, Cl. 123-120.

McKague, Elbert L., Jr.; and Cooper, Walter C., Jr., to United States of America, Army. Safety load and temperature control system for microwave ovens. 3,663,783, 5-16-72, Cl. 219-10.55.

McKay, Donald Edward. Disperse yellow dye of 5-(2-nitro-p-anisylazo) barbituric acid. 3,654,258, 4-4-72, Cl. 260-154.

McKay, Donald Roderick; and Landucci, Louis, to Cominco Ltd. Purification of zinc sulphate solution. 3,649,180, 3-14-72, Cl. 23-125.

McKay, Ian Guy, to Kee, Inc., mesne. Electrical arrangement for use in teaching machine. 3,634,950, 1-18-72, Cl. 35-5.

McKay, Jerry Bruce, to Du Pont de Nemours, E. I., and Company. Multilobal multifilament yarn. 3,691,749, 9-19-72, Cl. 57-140.00j.

McKay Machine Company, The: *See—*
Prieur, Hubertus; Vom Dorp, Walter; and Zeunert, Fritz, 3,688,643.

McKay, Nicholas D. Cartridge comb. 3,683,942, 8-15-72, Cl. 132-112.000.

McKay, Peter Henry; and Legg, Morris James, to Plastic Coating Limited. Coating of articles with plastics material. 3,643,626, 2-22-72, Cl. 118-58.

McKay, Robert Bruce, to Ciba-Geigy AG. Synthetic resin compounds of the phthalocyanine series. 3,691,116, 9-12-72, Cl. 260-18.00n.

McKay, Robert S.: *See—*
Meyer, Burton C.; and McKay, Robert S., 3,671,040.

McKay, Thomas L. Blind fastener with expandable collar. 3,657,955, 4-25-72, Cl. 85-70.

McKean, Alexander L., to Phelps Dodge Copper Products Corporation. Corona-resistant solid dielectric cable. 3,643,004, 2-15-72, Cl. 174-36.

McKean, Jack H., to Chemagro Corporation. Floating vent device. 3,672,533, 6-27-72, Cl. 220-44.00r.

McKean, Jack H., to Baychem Corporation. Mobile container decontaminator and recycle metal reclaimer. 3,701,355, 10-31-72, Cl. 134-19.000.

McKechnie, Donald B. Air cleaning apparatus. 3,646,729, 3-7-72, Cl. 55-278.

McKechnie, John C., to United States of America, Navy. Film recorded velocity and dynamic gain control mechanism. 3,666,895, 5-30-72, Cl. 179-100.30d.

McKechnie, John C., to United States of America, Navy. Automatic area of interest television optical probe focus apparatus. 3,699,248, 10-17-72, Cl. 178-6.800.

McKechnie, John C., to United States of America, Navy. Automatic optical probe focus apparatus. 3,699,251, 10-17-72, Cl. 178-7.200.

McKee, Arthur G., & Company: *See—*
Werner, Tage, 3,653,397.

McKee Baking Company: *See—*
Fisher, Albert W., Jr., 3,704,664.

McKee, Clyde M.: *See—*
McKee, Clyde M.; Provenzino, Andrew V.; and Scott, Ward, 3,640,608.
McKee, Clyde M.; Provenzino, Andrew V.; and Scott, Ward, 3,640,609.

McKee, Clyde M.; Provenzino, Andrew V.; and Scott, Ward, 1/3 to McKee, Clyde M., 1/3 to Scott, Ward and 1/3 to Shapiro, Sandor. Automatically controlled mirror. 3,640,608, 2-8-72, Cl. 350-307.

McKee, Clyde M.; Provenzino, Andrew V.; and Scott, Ward, 1/3 to McKee, Clyde M., 1/3 to Scott, Ward and 1/3 to Shapiro, Sandor, mesne. Automatically controlled mirror. 3,640,609, 2-8-72, Cl. 350-307.

McKee, Fount E., to Delta-X Corporation. Apparatus for measuring the change in the thermal energy of a flowing fluid. 3,639,737, 2-1-72, Cl. 235-151.3.

McKee, Francis G.; and Haddon, Roger C., to Aluminum Company of America. Bend-stretch apparatus for testing formable material. 3,636,758, 1-25-72, Cl. 73-100.

McKee, Francis G.; and Haddon, Roger C. Method of forming heat exchanger fin collars. 3,693,568, 9-26-72, Cl. 113-118.00c.

McKee, Herbert A.: *See—*
McKee, Herbert A.; Kensil, Charles E.; and Udell, Walter B., 3,680,156.

McKee, Herbert A.; Kensil, Charles E.; and Udell, Walter B., 1/3% to said McKee, Herbert A., 1/3% to said Kensil, Charles E. and 1/3% to said Udell, Walter B. Suspension system. 3,680,156, 8-1-72, Cl. 5-238.000.

McKee, Horace L., to Mobil Oil Corporation. Process and system for control of fluids in water disposal surge tanks. 3,675,771, 7-11-72, Cl. 210-83.000.

McKee, James R.; and Chastain, James K., to Ball Corporation. Building structure. 3,640,039, 2-8-72, Cl. 52-281.

McKee, Lefler H., to Sylvania Electric Products, Inc. Color CRT screen exposure method. 3,667,947, 6-6-72, Cl. 96-36.100.

McKee, Lewis W.: *See—*
Schoen, George J.; and McKee, Lewis W., 3,639,017.

McKee, Lewis W.; and Feest, Robert H., Jr., to Borden Corporation, The. Double row bearing. 3,640,593, 2-8-72, Cl. 308-196.

McKee, Lewis W., to Barden Corporation, The. Stable bearing cage. 3,647,269, 3-7-72, Cl. 308-201.

McKee, Robert G.; and Haase, Thomas W. Vehicle brake warning device. 3,689,880, 9-5-72, Cl. 340-52.00a.

McKee, William E.: *See—*
Field, Lester M.; Walker, Richard A.; and McKee, William E., 3,640,712.

McKeeman, William M.: *See—*
Carlson, Carl B.; McKeeman, William M.; and Price, William C., 3,699,528.

McKeen, Leighton R., to Farah Manufacturing Company, Inc. Reciprocating motion control device. 3,688,713, 9-5-72, Cl. 112-219.00r.

McKeever, Bruce T.: *See—*
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McKeithan, Wesley L.; and Astleford, John J., to Westinghouse Electric Corporation. Electrical apparatus including an improved high voltage current limiting protective device. 3,659,244, 4-25-72, Cl. 337-202.

McKell, Lynn J., to Bell Telephone Laboratories, Incorporated. Signal generator. 3,699,477, 10-17-72, Cl. 331-142.000.

McKellin, Wilbur H.: *See—*
Chapman, Douglas W.; McKellin, Wilbur H.; and Overley, R. Dean, 3,656,982.

McKellin, Wilbur H., to Pennwalt Corporation. Carboxy-peresters. 3,660,468, 5-2-72, Cl. 260-488.

McKelvey, Harold E.: *See—*
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McKelvey, John B.: *See—*
Berni, Ralph J.; Benerito, Ruth R.; McKelvey, John B.; Ward, Truman L.; and Soignet, Donald M., 3,644,082.

McKelvey, Ralph E., to Timken Company, The. Roller bearings. 3,675,978, 7-11-72, Cl. 308-214.000.

McKendrick, Lorne J. Hoist and balancing apparatus. 3,675,899, 7-11-72, Cl. 254-168.000.
McKenna, John E. Polyhedral structural system and spatial enclosure. 3,646,718, 3-7-72, Cl. 52-79.
McKenna, John Patrick; Keeling, Richard J.; and Lauersdorf, Duane H., to Sola Basic Industries, Inc. Metal melting and holding furnace. 3,688,007, 8-29-72, Cl. 13-20.000.
McKenna, Patrick A.: *See—*
Doessel, James H.; and McKenna, Patrick A., 3,647,211.
McKenna, Walter J. Absorbent crotch pad. 3,683,910, 8-15-72, Cl. 128-159.000.
McKenney, Gordon M., Jr.: *See—*
Hall, Roger L.; McKenney, Gordon M., Jr.; and Wall, Alfred J., 3,655,192.
McKenney, Robert Lee, Jr.; and Block, Jacob, to Grace, W. R., & Co. Process for preparing improved carbide microspheres from ion exchange resins. 3,673,101, 6-27-72, Cl. 252-301.10r.
McKenzie, Benjamin L. Artificial fishing lure. 3,680,247, 8-1-72, Cl. 43-42.170.
McKenzie, Eugene L. Glare-free coating compositions comprising hollow micropheres and solid crush-resistant particles. 3,642,675, 2-15-72, Cl. 260-22.
McKenzie, James G. Chromatic harmonica. 3,674,910, 7-4-72, Cl. 84-377.000.
McKenzie, Michael William: *See—*
Whitton, Richard Wilfred; Southall, Ronald Herbert; McKenzie, Michael William; and Shackleford, Ralph Edward, 3,653,979.
McKenzie, William A. Smoke pollution eliminator. 3,667,193, 6-6-72, Cl. 55-227.
McKeon, James E.: *See—*
Rick, Edward A.; McKeon, James E.; Fitton, Peter; and Argento, Benny J., 3,678,085.
Trecker, David J.; and McKeon, James E., 3,678,096.
McKeon, James E.; and Trecker, David J., to Union Carbide Corporation. Oxidation of cyclic amines to lactams. 3,634,346, 1-11-72, Cl. 260-239.3.
McKeon, James Edward: *See—*
Fitton, Peter; and McKeon, James Edward, 3,632,824.
McKeown, Cornelius J.: *See—*
Rohr, Alton J.; and McKeown, Cornelius J., 3,698,331.
McKeown, James E., to Bendix Corporation, The. Battery powered explosive system with relaxation oscillator in charging circuit. 3,671,842, 6-20-72, Cl. 320-1.000.
McKeown, Lewis A. Paper machine broke control. 3,660,226, 5-2-72, Cl. 162-264.
McKewen, John L., to Koppers Company, Inc. Method of and apparatus for chemically conditioning a particle-laden gas stream. 3,665,676, 5-30-72, Cl. 55-4.000.
McKibben, Charles W.; and Robinson, Robert C., to Union Carbide Corporation. Bubble-blending particulate solids. 3,671,018, 6-20-72, Cl. 259-4.000.
McKie, Eugene T.; and Hamilton, John E. Method for surfacing poured material. 3,681,484, 8-1-72, Cl. 264-34.000.
McKiearnan, Charles J.: *See—*
Braddick, Britt O.; Lindsey, Hiram E., Jr.; and McKiearnan, Charles J., 3,640,341.
McKiernan, Dennis Lester, to Bell Telephone Laboratories, Incorporated. Gated-clock time measurement apparatus including granularity error elimination. 3,675,127, 7-4-72, Cl. 324-186.000.
McKiernan, Eugene, to Voplex Corporation. Method of making athletic mats. 3,650,872, 3-21-72, Cl. 156-304.
McKillip, William J.: *See—*
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Hartlage, James A.; and McKillip, William J., 3,706,800.
McKillip, William J.; Culbertson, Billy M.; and Impola, Clarence N., to Ashland Oil, Inc. Process for shrinkproofing wool. 3,640,676, 2-8-72, Cl. 8-127.6.
McKillip, William J.; and Clemens, Lawrence M., to Ashland Oil, Inc. Bisacyl aminimides. 3,706,797, 12-19-72, Cl. 260-558.00h.
McKillip, William James: *See—*
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McKillop, Alexander: *See—*
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McKinley, Larry E.: *See—*
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McKinley, Larry E.; Evans, William E.; and Johnson, Clarence S. Sea cage. 3,633,370, 1-11-72, Cl. 61-69.
McKinney, Charles R.: *See—*
Hull, Charles W.; and McKinney, Charles R., 3,699,332.
McKinney Drilling Company: *See—*
McKinney, John R., 3,648,788.
McKinney, Edward J., to United States of America, Navy. Matched filter. 3,701,154, 10-24-72, Cl. 343-18.00e.
McKinney, Emery L.: *See—*
Pierce, Edwin A.; Knob, Richard W.; Roth, Samuel O.; and McKinney, Emery L., 3,643,393.
Pierce, Edwin A.; Knob, Richard W.; Roth, Samuel O.; and McKinney, Emery L., 3,671,362.
McKinney, James C. Wrist exerciser. 3,666,267, 5-30-72, Cl. 272-67.000.
McKinney, James C., to Grace, W. R., & Co. Corrugate-film laminate package material and package. 3,694,995, 10-3-72, Cl. 53-30.000.
McKinney, Joel D.: *See—*
Bryson, Millard C.; McKinney, Joel D.; and Murphy, James R., 3,706,654.
Christman, Robert D.; and McKinney, Joel D., 3,654,132.
McKinney, Joel D.; and Ondish, George F., to Gulf Research & Development Company. Catalytic cracking plant and method. 3,692,667, 9-19-72, Cl. 208-120.000.
McKinney, John R., to McKinney Drilling Company. Drilling apparatus. 3,648,788, 3-14-72, Cl. 175-205.
McKinney, John S., to American Metal Climax, Inc. Sheet metal roofing/siding system with seperable fastener. 3,703,062, 11-21-72, Cl. 52-545.000.
McKinney Manufacturing Company: *See—*
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McKinney, Merle B., to Pioneer Liquor Company, Inc. Hand truck. 3,679,225, 7-25-72, Cl. 280-47.180.
McKinney, Paul W., to Fawcett Printing Corporation, The. Apparatus for producing trimmed printing face plates. 3,676,040, 7-11-72, Cl. 425-470.000.
McKinney, Perry F.: *See—*
Bray, John R.; and McKinney, Perry F., 3,679,873.
McKinnon, Benjamin I., to Equipment Sales Company, Inc. Hose holder and coupling inserter machine. 3,675,303, 7-11-72, Cl. 29-237.000.
McKinnon, Murdoch G.; Wilson, James N.; and Besant, Robert W., to Atomic Energy of Canada Limited. Fluidic position sensor. 3,690,339, 9-12-72, Cl. 137-81.500.
McKinnon, Philip R. Siphon system. 3,688,791, 9-5-72, Cl. 137-135.000.
McKinsey, Byron E.: *See—*
Maniaci, Philip J.; and McKinsey, Byron E., 3,693,486.
McKinsey, Kevin P.; and Mills, Thomas C., to Double Sixteen Company. Case for recording tape cassettes. 3,692,376, 9-19-72, Cl. 312-11.000.
McKinstry, James E., to Nelson Manufacturing Company. Automatic waterer. 3,650,247, 3-21-72, Cl. 119-81.
McKinstry, Richard G., to Anchor Hocking Corporation. Glass treating tunnel. 3,659,551, 5-2-72, Cl. 118-48.
McKinzie, Preston V., to Michaels of Oregon Co. Gun barrel mounting for sling swivel. 3,704,537, 12-5-72, Cl. 42-85.000.
McKissick, Dale Clay, to American Standard, Inc. Recovery of electro-chemical plating solutions. 3,681,212, 8-1-72, Cl. 204-51.000.
McKissick, John A.; and McGregor, Arvin D., to Burroughs Corporation. Threshold voltage determination system. 3,675,201, 7-4-72, Cl. 340-146.3ag.
McKissick, Robert T.; Sebastian, Vincent W.; Davis, Ray D.; and Sasser, Arthur R., to RG-Bilt. Asparagus harvesting machine and method. 3,636,687, 1-25-72, Cl. 56-327.
McKnight, James T. Soil bed preparation, soil stabilizing, soil conditioning, and soil improving process. 3,705,467, 12-12-72, Cl. 47-9.000.
McKnight, John R.; Ballay, Joseph M.; Fabbro, Lawrence L.; and Alexander, James M., Jr., to United States of America, Air Force. Portable shelter and method for constructing the shelter. 3,633,326, 1-11-72, Cl. 52-86.
McKnight, Robert A., to Singer Company, The, mesne. Head positioning device. 3,664,746, 5-23-72, Cl. 356-138.
McKnight, Robert A., to Singer Company, The, mesne. Visual teaching aid for fixed-base vehicle trainer. 3,678,601, 7-25-72, Cl. 35-12.00n.
McKnight, William B., to United States of America, Army. Multiple unit laser system. 3,651,425, 3-21-72, Cl. 331-94.5.
McKown, Alan G., to Minnesota Mining and Manufacturing Company. Particulate adhesive containing polyepoxides, carboxylated butadiene-acrylonitrile copolymer, and a urea derivative as a curing agent. 3,655,818, 4-11-72, Cl. 260-837.
McKown, Alan G., to Minnesota Mining and Manufacturing Company. Adhesive. 3,707,583, 12-26-72, Cl. 260-837.000.
McKown, Ernest M. Leak sealing device. 3,696,447, 10-10-72, Cl. 4-1.000.
McKown, Gary C.: *See—*
Simons, Gerald F.; Lynch, Frederick W.; and McKown, Gary C., 3,664,234.
McLafferty, George H.; and Wisner, George R., to United Aircraft Corporation. Cooling means for reflecting device. 3,637,296, 1-25-72, Cl. 350-310.
McLafferty, George H., to United Aircraft Corporation. Laser device. 3,665,336, 5-23-72, Cl. 331-94.500.
McLain, Aubrey R.: *See—*
Bolt, Gregory L.; Brandt, Charles H.; McLain, Aubrey R.; and Patel, Jayantilal M., 3,640,726.
McLain, Bruce H.; Sallee, John P.; and Ashton, Shirley B., to Air Control Industries, Inc. Electrostatic air cleaner. 3,665,679, 5-30-72, Cl. 55-137.
McLain, Charles D.: *See—*

Ford, James A.; Saunders, Stuart R.; Caule, Elmer J.; and McLain, Charles D., 3,646,946.
McLain, Charles D., to Olin Corporation. Copper base alloy. 3,639,119, 2-1-72, Cl. 75-157.
McLain, Charles D., to Olin Corporation. Copper base alloy. 3,671,225, 6-20-72, Cl. 75-157.500.
McLain, Earl A.; and Mahon, Henry I., to Dow Chemical Company, The. Spinnerette for the production of hollow fibers. 3,659,983, 5-2-72, Cl. 425-72.
McLain, James E.: *See—*
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McLain, John H.; and Porter, Bobby J., to Brown Engineering Company, Inc., mesne. Solder leveling method. 3,704,165, 11-28-72, Cl. 117-212.000.
McLamore, Roy T., to Shell Oil Company. Tensile-stress fracturing. 3,637,020, 1-25-72, Cl. 166-298.
McLaren, Edwin C.: *See—*
Hennessey, Russell J.; and McLaren, Edwin C., 3,692,227.
McLaren, James; and Harris, Walter, to Coal Industry (Patents) Limited. Solid fuel combustion apparatus. 3,636,896, 1-25-72, Cl. 110-8.
McLaren, James C.: *See—*
Hopkins, John D.; McLaren, James C.; Johnson, Ronald A.; and Offer, Robert J., 3,681,898.
Hopkins, John D.; McLaren, James C.; Johnson, Ronald A.; and Offer, Robert J., 3,686,837.
McLaren, Reginald J., to Eaton Corporation. Composite mold and method of making same. 3,648,756, 3-14-72, Cl. 164-23.
McLaren, Robin A., to Petrolite Corporation. Uses of aryl-substituted polyalkylene polymers. 3,649,228, 3-14-72, Cl. 44-62.
McLarnon, Frank R.: *See—*
Nanis, Leonard; and McLarnon, Frank R., 3,663,300.
McLarty, Gordon. Safety switch and circuit for oil burning furnace. 3,645,662, 2-29-72, Cl. 431-78.
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McManus, Herbert C., to American Standard, Inc. Hot air furnace having L-shaped burners. 3,653,371, 4-4-72, Cl. 126-91.
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McMartin, William J.; and Weidmann, Hans E., to Allen-Bradley Company. Apparatus and method for testing the insertion loss of electrical filters. 3,651,400, 3-21-72, Cl. 324-57.
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McMaster, Harold A., to Guardian Industries Corporation. Apparatus for conveying glass sheets through adjacent bending and tempering stations. 3,700,425, 10-24-72, Cl. 65-348.000.
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McMath, Jack A., to Dover Corporation. Valuables depository. 3,672,563, 6-27-72, Cl. 232-1.00r.
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McMenamy, Frederick; De More, Louis A.; and Del Mastro, Ludwig E., to North American Rockwell Corporation. Motor speed control with droop compensation. 3,671,835, 6-20-72, Cl. 318-308.000.
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McMillan, Harry C., to Drexel Dynamics Corporation. Swing shift lift truck. 3,637,100, 1-25-72, Cl. 214-671.
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McMillan, Peter William; and Partridge, Graham, to English Electric Company Limited, The. Glass-ceramics. 3,647,489, 3-7-72, Cl. 106-39.
McMillen, Kenneth G., to Borg-Warner Corporation. Flow extending bypass valve. 3,631,890, 1-4-72, Cl. 137-596.13.
McMillen, Kenneth G.; and Miller, Wendell E., to Borg-Warner Corporation. Hydraulic system. 3,635,021, 1-18-72, Cl. 60-52.
McMillen, Kenneth G.; and Miller, Wendell E., to Borg-Warner Corporation. Control circuit. 3,693,506, 9-26-72, Cl. 91-412.000.
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McMillin, Grant L., Jr., to Webster Electric Company, Inc. Tape recorder brake assembly. 3,664,609, 5-23-72, Cl. 242-204.
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McMullen, Wayne W., to Freidheim, Frank C. Bicycle trainer velocipede. 3,645,558, 2-29-72, Cl. 280-270.
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McMurray, Mitchell; Plouzek, Eugene A.; and Sturges, James R., to Caterpillar Tractor Company. Constant pressure seal. 3,674,279, 7-4-72, Cl. 277-95.000.
McMurray, Peter H. Emergency reporting digital communications system. 3,694,579, 9-26-72, Cl. 179-5.00r.
McMurray, Raymond C.: *See—*
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McNall, John W., to Westinghouse Electric Corporation. Method of treating hyperbilirubinemia. 3,658,068, 4-25-72, Cl. 128-395.
McNally, Byron L. Flood alarm. 3,703,715, 11-21-72, Cl. 340-240.000.
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McNally, James G., Jr., to Eastman Kodak Company. Diazotype photographic elements having extended exposure latitude with specific U-V absorber. 3,679,415, 7-25-72, Cl. 96-68.000.
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McNamara, James Francis; and Turner, Richard Ellis, to Du Pont de Nemours, E. I., and Company. Permeation separation apparatus. 3,702,658, 11-14-72, Cl. 210-321.000.
McNamara, Robert A. Process and apparatus for producing improved photographic emulsion. 3,705,034, 12-5-72, Cl. 96-94.000.
McNamara, Thomas J. Absorption refrigeration and air conditioning system. 3,661,200, 5-9-72, Cl. 165-42.
McNamara, Thomas J.; and Sangster, Arlon G. Circuit for multi-speed two-phase motor. 3,675,100, 7-4-72, Cl. 318-220.00r.
McNamara, Thomas V.; and Zahn, Edward L., to Eaton Yale & Towne, Inc. Transmission having low inertia mainshaft. 3,648,546, 3-14-72, Cl. 74-745.
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McNamee, James W., to General Motors Corporation. Circuit for periodically reversing the polarity of a direct current potential supply line. 3,646,366, 2-29-72, Cl. 307-252.
McNamee, Raymond W.; Mlynar, Lubomir; and Schachat, Norman, to Rohm & Haas Company. Mineral-coating compositions comprising an amine polymer and an amylaceous substance and papers coated therewith. 3,671,472, 6-20-72, Cl. 260-17.4st.
McNamee, Raymond W., Jr.; Glavis, Frank J.; and Schiavone, Anthony E., to Rohm & Haas Company. Binder plate for use in xerography and process therefor. 3,681,069, 8-1-72, Cl. 96-1.500.
McNaney, Joseph T. Dice game of chance device. 3,645,532, 2-29-72, Cl. 273-142.
McNaney, Joseph T. Electrically controllable light conducting device. 3,704,060, 11-28-72, Cl. 350-160.00r.
McNeal, Donald A.; and Dearry, Paul A., to Sun Oil Company. Pig system. 3,665,954, 5-30-72, Cl. 137-268.
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Meissner, Konrad E.; and McClelland, Etheride R., to Filper Corporation. Drupe pitter. 3,675,695, 7-11-72, Cl. 146-28.00a.
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Melillo, Dominic S. Reversible film camera with selectable exposure sizes. 3,678,834, 7-25-72, Cl. 95-36.000.
Melillo, Manlio B.; and Vlachos, Daniel P., to Bunker-Ramo Corporation, The. Method of plating a uniform copper layer on an apertured printed circuit board. 3,634,205, 1-11-72, Cl. 204-24.
Melin, Ake Lennart, to Svenska Ackumulator Aktiebolaget Jungner. Electrochemically active material, consisting chiefly of nickel hydroxide, for positive electrodes in alkaline accumulators, and procedure for its manufacture. 3,657,013, 4-18-72, Cl. 136-28.
Melin, Karl-Axel, to Incentive Research & Development AB, mesne. Apparatus for controlling the temperature of a sample during the examination thereof. 3,646,318, 2-29-72, Cl. 219-300.
Melinder, Arthur A. Indexable bit cutting tool holder. 3,672,016, 6-27-72, Cl. 29-96.
Meline, Philippe: *See—*
Favie, Claude; Dellsperger, Werner; and Meline, Philippe, 3,646,165.
Favie, Claude; Dellsperger, Werner; and Meline, Philippe, 3,652,730.
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Melitta, Inc.: *See—*
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Mellaerts, Wilfred Jean: *See—*
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Melland Gear and Instrument Co., Inc.: *See—*
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Melle, Hans-George: *See—*
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Mellen, Edward J., Jr.: *See—*
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Loxley, Ted A.; Webb, John M.; and Barber, Walter G., 3,652,248.
Mellen, Edward J., Jr.; Baker, Edmond M.; and Webb, John M. (said Baker and said Webb assor. to said), 3,654,984.
Mellen, Edward J., Jr.; Baker, Edmond M.; and Webb, John M., said Baker and said Webb assor. to said Mellen, Edward J., Jr. Porcupine shell molds and method of making same. 3,654,984, 4-11-72, Cl. 164-26.
Meller, Oscar W.: *See—*
Sprick, Walter F.; Morse, Frank C.; Holzer, Alexander; Meller, Oscar W.; and Lovich, John W., 3,706,392.
Melley, Arthur: *See—*
Organ, Terrence John; Alderman, Leslie; Melley, Arthur; and Pratt-Johnson, William Henry, 3,634,106.
Mellgren, Per Gustaf, to Kockum Soderhamn AB. Apparatus for felling and bundling trees. 3,659,635, 5-2-72, Cl. 143-43.
Mellien, Frank V., Jr.: *See—*
Tremblay, Hubert J.; and Mellien, Frank V., Jr., 3,660,609.

Mello, Frank A. Automatic vehicle washing apparatus with brush for cleaning the vehicle sides. 3,675,262, 7-11-72, Cl. 15-4.000.
Mello, John F., to McDonnell Douglas Corporation. Aircraft having auxiliary airfoils. 3,680,816, 8-1-72, Cl. 244-46.000.
Mello, William R.; and Warren, James A., to Colt Industries Operating Corporation, mesne. Tool changer. 3,678,572, 7-25-72, Cl. 29-568.000.
Mellon, Eugene P.; and Kisner, Lester A., to Marriott Corporation. Method and apparatus for removing skin from onions or like vegetables. 3,696,848, 10-10-72, Cl. 146-83.000.
Mellor, Walter, to Lucas, Joseph, (Industries) Limited. Windscreen wiping systems for road vehicles. 3,638,030, 1-25-72, Cl. 307-10.
Mellor, Walter, to Lucas, Joseph, (Industries) Limited. Windscreen wiper assemblies. 3,649,988, 3-21-72, Cl. 15-250.3.
Mellors, Geoffrey W.: *See—*
Louzos, Demetrios V.; and Mellors, Geoffrey W., 3,655,453.
Mellors, Geoffrey W., to Union Carbide Corporation. Solid ionic conductors. 3,689,323, 9-5-72, Cl. 136-153.000.
Mellow, Dale F.: *See—*
Dehm, Henry C.; and Mellow, Dale F., 3,655,836.
Dehm, Henry C.; and Mellow, Dale F., 3,676,533.
Mellow, Stephen. Animated two-dimensional figure. 3,691,676, 9-19-72, Cl. 46-126.000.
Mellows, Susan M.: *See—*
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Melloy, George F.; and Dennison, Joseph D., to Bethlehem Steel Corporation. Method of producing rolled steel having high strength and low impact transition temperature. 3,645,801, 2-29-72, Cl. 148-12.
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Melnick, Joseph L.: *See—*
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Melnick, Samuel H.; Landsman, Walter A.; and Stromski, Walter A., to Midland Sporting Goods Company, Inc., mesne. Method of forming a racquet. 3,702,023, 11-7-72, Cl. 29-163.500.
Melnyk, George, to International Business Machines Corporation. Shaft position sensing device. 3,702,467, 11-7-72, Cl. 340-200.000.
Melnyk, William, to McCord Corporation. Accumulator. 3,698,207, 10-17-72, Cl. 62-503.000.
Meloan, Clifton E.; and Bunting, Thomas G., to Kansas State University Research Foundation. Analytical reagents for quantitative determination of water. 3,661,797, 5-9-72, Cl. 252-408.000.
Melon, Jean-Marie; and Thomas, Jean, 1/3 to Laboratories Sauba. Method for the prevention or cure of oxalic lithiasis, and pharmaceutical compositions therefor. 3,639,606, 2-1-72, Cl. 424-274.
Melone, Robert R., to Illinois Tool Works Inc. Remote sensing indicator. 3,683,347, 8-8-72, Cl. 340-244.00r.
Meloni, Livio. Fluid dynamic profile. 3,653,632, 4-4-72, Cl. 251-304.
Meloni, Robert A.: *See—*
Sauerwein, William D.; Meloni, Robert A.; and Walter, Harvey J., 3,666,027.
Melott, Norman W., to Cook-Waite Laboratories, Inc. Sealing closure caps. 3,673,766, 7-4-72, Cl. 53-335.000.
Melpar, Inc.: *See—*
Brody, Samuel S.; and Holland, William B., 3,645,627.
Callanen, Oliver E., 3,645,011.
Koch, Bradley R., 3,655,962.
Stowe, Richard W., 3,656,019.
Swindells, Frank E., 3,669,743.
Melquion, Henri; Stauff, Emile; and Guillot, Jean, to Electrofil and Nord-Aviation Societe Nationale de Constructions Aeronautiques. Connecting cable between a control post and flying missile. 3,654,030, 4-4-72, Cl. 156-441.
Melray Manufacturing Company: *See—*
Hedberg, David A., 3,693,386.
Melreit, Robert V., to Royal Appliance Manufacturing Co., Inc. Suction cleaner shag rug nozzle convertor. 3,689,956, 9-12-72, Cl. 15-397.000.
Melrose, David R.; Patterson, Ronald Lowdon Straiton; and Reed, Hugh Charles Brent, to Nationale Research Development Corporation. Artificial insemination of pigs. 3,681,490, 8-1-72, Cl. 424-2.000.
Melsek, Norbert J., to Signode Corporation. Palletized load. 3,675,765, 7-11-72, Cl. 206-46.0fn.
Melsey Corporation: *See—*
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Melson, Robert E.: *See—*
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Melton, Donald F. Platform. 3,643,761, 2-22-72, Cl. 182-19.
Melton, Johnnie D. Trailer hitch. 3,659,876, 5-2-72, Cl. 280-511.000.
Melton, Roger Warren, to Continental Can Company, Inc. Method and apparatus for classifying and sorting closure caps. 3,633,742, 1-11-72, Cl. 209-80.
Melton, Thomas M., to Mobil Oil Corporation. Process for preparation of dialkyl vinyl phosphates. 3,699,193, 10-17-72, Cl. 260-969.000.
Meltsner, Bernard R.: *See—*
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Meltsner, Bernard R., to Ethyl Corporation. Organic compositions stabilized with phosphorus containing additives. 3,635,884, 1-18-72, Cl. 260-45.85.
Meltsner, Bernard R., to Ethyl Corporation. Stable plastic compositions. 3,637,586, 1-25-72, Cl. 260-45.95.
Meltsner, Bernard R., to Ethyl Corporation. Stable organic compositions containing a phenolic antioxidant. 3,644,281, 2-22-72, Cl. 260-45.85.
Meltsner, Bernard R., to Ethyl Corporation. Stabilized lubricating oil. 3,658,706, 4-25-72, Cl. 252-49.8.
Meltsner, Bernard R., to Ethyl Corporation. O,O-dialkyl-S-diaryl hydroxybenzyl phosphorodithioates. 3,662,033, 5-9-72, Cl. 260-953.
Meltsner, Bernard R. Preparation of dihydrocarbyl 2- or 4-hydroxybenzyl alkyl ethers. 3,692,691, 9-19-72, Cl. 252-404.000.
Meltzer, Jacques: *See—*
Van Den Bos, Bernardus Gerhardus; Meltzer, Jacques; and Handele, Martin Jacob, 3,661,926.
Meltzer, Morris; and Meyer, Donald D. Automatic meat cutting machine. 3,631,908, 1-4-72, Cl. 146-133.
Meltzer, Robert I.; and Wittekind, Raymond R., to Warner-Lambert Company. 3,4,4α,9α-Tetrahydro-2-(1H)carbazolones. 3,671,544, 6-20-72, Cl. 260-315.000.
Melvanin, William: *See—*
Craigne, William J. S.; Ritcey, Gordon M.; Joe, Edwin Glendon; Melvanin, William; and Smart, Bruce C., 3,702,883.
Melville, Alfred W.; Shacklock, Frank W.; and O'Hare, David H. Humidification. 3,638,926, 2-1-72, Cl. 261-130.
Melville, Alfred W.; O'Hare, David H.; and Brickell, Christopher G., to Fisher & Paykel Limited. Humidifying means. 3,659,604, 5-2-72, Cl. 128-212.
Melville Clark Associates: *See—*
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Melvin, William J., to Collins Radio Company. Differentially coherent phase shift keyed digital demodulating apparatus. 3,675,129, 7-4-72, Cl. 325-320.000.
Melvin, William J., to Collins Radio Company. Digitalized filter. 3,676,654, 7-11-72, Cl. 235-152.000.
Melze, Charles F.: *See—*
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Melzer, Arnfried: *See—*
Vetter, Hans; Danhauser, Justus; Kabitzke, Karlheinz; Marx, Paul; Melzer, Arnfried; Pelz, Willibald; and Puschel, Walter, 3,705,035.
Melzian, Aldon L., to Sierra Engineering Co. Synthetic thorax. 3,648,389, 3-14-72, Cl. 35-17.
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Memco (Electronics) Limited: *See—*
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Memery, James P., to United Aircraft Corporation. Vibration damping apparatus. 3,652,139, 3-28-72, Cl. 308-187.
Memery, James P., to United States of America, Navy. Compressor blade root seal. 3,700,354, 10-24-72, Cl. 416-219.000.
Memhardt, Charles Rogers: *See—*
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Memmel, Ferdinand: *See—*
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Memnen-Greatbatch Electronic, Inc.: *See—*
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Applequist, Roy A.; and Wilson, Laurence M., 3,665,434.
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Bunas, Gary L.; and Clark, Ross P., 3,684,547.
Higashi, Louis M., 3,655,595.
Murashige, Robert H., 3,700,480.
Procter, William B.; and Youngstrom, Jerry R., 3,633,187.
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Tollkuhn, Arthur W., 3,684,203.

Menaker, Warren M.: *See—*
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Menapace, Henry R.: *See—*
Bryson, Jay G.; Menapace, Henry R.; and Benner, Gereld S., 3,644,088.

Menapace, Henry R.; and Wang, Jin-Liang, to Goodyear Tire & Rubber Company, The. Metathesis of olefins. 3,636,126, 1-18-72, Cl. 260-683.

Menard, Aldor A. Drum stick. 3,688,013, 8-29-72, Cl. 84-422.000.

Menard, Enrico: *See—*
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,632,810.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,639,396.

Menard, Louis F., to Techniques Louis Menard and Compagnie Francaise des Petroles. Anchorage apparatus. 3,653,167, 4-4-72, Cl. 52-162.

Menary, Robert F. Film inspection machine. 3,693,430, 9-26-72, Cl. 73-157.000.

Menasco Manufacturing Company: *See—*
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Kendall, Giles A., 3,690,619.
Kendall, Giles A.; and Bhutani, Harish K., 3,693,940.
Kendall, Giles Arthur; and Minick, Robert, 3,677,507.

Menasha Corporation: *See—*
Wharton, Thomas P., 3,702,100.

Menasha Corporation, mesne: *See—*
Stevens, Bruce W., 3,659,497.

Menashi, Jameel; and Troiano, Paul F., to Cabot Corporation. Process for decolorizing dry cleaning solvents. 3,647,685, 3-7-72, Cl. 210-39.

Menashi, Wilson P.: *See—*
Ashman, Leland E.; and Menashi, Wilson P., 3,701,628.

Menasoff, George N., to Anaconda Wire and Cable Company. Cable jacket extrusion apparatus and die with wire positioning means. 3,692,448, 9-19-72, Cl. 425-113.000.

Menasse, Raphael: *See—*
Gubler, Kurt; Menasse, Raphael; and Gatzi, Karl, 3,692,909.

Menasse, Raphael; and Gatzi, Karl, to Geigy Chemical Corporation. N-(4-Carboxy-benzylidene) amines. 3,697,589, 10-10-72, Cl. 260-518.00r.

Mencacci, Samuel A., to International Machinery Corporation S.A. Pulping and finishing apparatus. 3,656,528, 4-18-72, Cl. 146-174.

Mencacci, Samuel A., to International Machinery Corporation, S.A. Apparatus for canning fish. 3,700,386, 10-24-72, Cl. 53-23.000.

Mencacci, Samuel Alfred, to International Machinery Corporation, S.A. Self propelled, fan-type orchard sprayer. 3,666,177, 5-30-72, Cl. 239-77.000.

Mencarelli, Vittorio. Ball valve. 3,677,514, 7-18-72, Cl. 251-148.000.

Mench, John W.: *See—*
Fulkerson, Brazelton; and Mench, John W., 3,645,744.
Fulkerson, Brazelton; and Mench, John W., 3,653,935.
Grant, Peter M.; Fulkerson, Brazelton; and Mench, John W., 3,697,640.

Menchikov, Leonid Petrovich; Kopylov, Kim Ivanovich; Okun, Evsei Lvovich; Smirnov, Vasily Mikhailovich; Gavrikov, Viktor Stepanovich; Fridman, Ilya Davidovich; Markov, Vyacheslav Evgenievich; and Sopin, Alexandr Alexandrovich, to National Cash Register Comany, The. Installation for casting microwire in glass insulation. 3,651,301, 3-21-72, Cl. 219-10.75.

Mendel, Arthur: *See—*
Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,637,729.
Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,639,474.
Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,642,817.

Mendel, Arthur, to Riker Laboratories, Inc., mesne. N-(2-Dialkylaminoalkylene)-esters of fluoroalkoxy-substituted aryl carboxylic acids and salts thereof. 3,655,728, 4-11-72, Cl. 260-473.

Mendel, Eric, to International Business Machines Corporation. Method for polishing magnetic oxide materials. 3,662,500, 5-16-72, Cl. 51-281.0sf.

Mendel, Eric, to International Business Machines Corporation. Method for polishing magnetic oxide materials. 3,662,501, 5-16-72, Cl. 51-281.0sf.

Mendel, John R.: *See—*
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Mendell, Lester W., Jr.: *See—*
Zane, Ronald S. O.; and Mendell, Lester W., Jr., 3,697,362.

Mendelson, Myron J.; and England, Alfred W., to Delaware SDS, Inc., mesne. General purpose digital computer. 3,701,977, 10-31-72, Cl. 340-172.500.

Mendelson, Ralph A.: *See—*
Kirkpatrick, Milton E.; and Mendelson, Ralph A., 3,650,646.
Kirkpatrick, Milton E.; and Mendelson, Ralph A., 3,665,260.

Mendelson, William J.; and Morris, William F., Jr. Process for packaging and preserving meats. 3,637,405, 1-25-72, Cl. 99-194.

Mendes Da Rocha, Manuel Coelho, to Laboratorio Nacional de Engenharia Civil. Apparatus and method for obtaining core samples from soil and rock masses. 3,631,934, 1-4-72, Cl. 175-58.

Mendez, Charles E. Fuel transfer system for tractor trailer vehicles. 3,677,284, 7-18-72, Cl. 137-351.000.

Mendez, Robert w., to Garwood-Mendez Inc. Food container construction. 3,684,157, 8-15-72, Cl. 229-16.000.

Mendius, Carl, Jr., to Silbrico Corporation. Apparatus for settling insulation material in cryogenic tanks. 3,633,878, 1-11-72, Cl. 259-92.

Mendoza, Phyllis E. Differential change register. 3,654,433, 4-4-72, Cl. 235-7.

Menegatto, Carlo. Dobby mechanism for looms. 3,695,304, 10-3-72, Cl. 139-78.000.

Meneghini, Carlo; Mayer, Richard Eugene; Lazarus, Stanley David; and Rainer, Norman Barry, to Allied Chemical Corporation. Microvoiding with alkali metal hydroxide a heat fused fabric of polyamide with fiber occluded axially aligned polyester microfibers. ,654,679, 4-11-72, Cl. 28-73.

Meneidis, Petros G., to Lavreotiki Societe Industrielle Anonyme. Extrusion head for continuously extruding a compound strand of plastic materials. 3,642,396, 2-15-72, Cl. 425-109.

Menell, Hans, to Continental Gummi-Werke Aktiengesellschaft. Method of making tires. 3,687,757, 8-29-72, Cl. 156-126.000.

Menelly, Richard A., to Sylvania Electric Products, Inc. Arc discharge lamp having a thin continuous film of indium oxide on the inner surface thereof. 3,676,729, 7-11-72, Cl. 313-109.000.

Meneret, Jean, to Commissariat a l'Energie Atomique et Societe Desmarquest SA. Device for initiating an exothermic reaction. 3,664,651, 5-23-72, Cl. 266-1.

Meneses, Robert: *See—*
Terrels, Joseph L.; and Meneses, Robert, 3,672,645.

Menge, Donald C., to Troy Steel Corporation. Cutting apparatus. 3,680,609, 8-1-72, Cl. 143-46.00e.

Mengel, Lloyd A., to Eastman Kodak Company. Apparatus for piercing a container. 3,688,399, 9-5-72, Cl. 30-16.000.

Menger, Karl S.: *See—*
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Menger, William M.: *See—*
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Menges, Hans G. L.; Lehnen, Josef P.; and Harms, Englebert G., to Uniroyal Englebert Deutschland AG. Single worm extruder. 3,680,844, 8-1-72, Cl. 18-12.0sb.

Mengis, Hans: *See—*
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Mengis, Raphael; and Mengis, Hans. Apparatus equipped with worm means for digging a ditch or the like. 3,645,019, 2-29-72, Cl. 37-82.

Mengler, Allan A.: *See—*
Walesch, David J.; and Mengler, Allan A., 3,707,197.

Menhennett, Herbert E.: *See—*
Howard, Robert; Robinson, Prentice I.; and Menhennett, Herbert E., 3,703,949.

Menicanti, Adriano; and Oberto, Giacomo, to Olivetti, Ing., C., & C., S.p.A. Mutual locking device for an office machine with electric keyboard. 3,664,478, 5-23-72, Cl. 197-17.000.

Menichelli, Vincent J., to United States of America, Navy. Delay train for ordnance fuse. 3,638,572, 2-1-72, Cl. 102-75.

Menieks, Paul R.: *See—*
Blumbergs, John H.; and Menieks, Paul R., 3,691,139.

Menigat, Richard, to Metallgesellschaft Aktiengesellschaft. Incinerator apparatus. 3,687,094, 8-29-72, Cl. 110-8.00r.

Menikheim, Virginia C.; and Kilmer, Charlie C. Surface treatment of nylon shaped articles with aqueous reducing agents. 3,686,017, 8-22-72, Cl. 117-47.00a.

Meniolle D'Hauthuille, Jean. Pivoted gate. 3,686,793, 8-29-72, Cl. 49-131.000.

Menioux, Claude Charles Felix, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Composite gas turbine ramjet engine. 3,635,029, 1-18-72, Cl. 60-224.

Menitsky, Iosif Donatovich: *See—*
Poludetkin, Vladimir Romanovich; Menitsky, Iosif Donatovich; and Kaplan, Jury Abramovich, 3,638,513.

Menke, Franz, to Eltro G.m.b.H. & Co. Apparatus for measuring the range of vision by comparing a direct and dispersed beam of light. 3,653,768, 4-4-72, Cl. 356-104.

Menke, Franz, to Eltro G.m.b.H. & Co. Process and apparatus regulating the fuel-air mixture in internal combustion engines operating with carburetors. 3,667,739, 6-6-72, Cl. 261-1.000.

Menke, Joseph F., to Eltro G.m.b.H. & Co. Method and apparatus for the determination of coordinates. 3,690,594, 9-12-72, Cl. 244-3.130.

Menke, Wilhelm, to NSM Apparatebau GmbH. Automatic phonograph with pin memory unit and cam readout unit. 3,662,344, 5-9-72, Cl. 340-162.
Menkel, Gary G., to Design Center, Inc. Method for thermoforming a screw cap closure. 3,651,185, 3-21-72, Cl. 264-89.
Menley & James Laboratories: *See—*
Seidler, David, 3,694,096.
Menn, Bruce E., to Lear Siegler, Inc. Flight control system for following multi-stage descent profile. 3,666,929, 5-30-72, Cl. 235-150.22.
Menn, Julius J.: *See—*
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Brokke, Mervin E.; Menn, Julius J.; and Dorman, Stephen C., 3,642,958.
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Menne, Eugene P., to Johnson Diversified, Inc. Push botton lock for fishing reels. 3,703,262, 11-21-72, Cl. 242-84.20a.
Mennen, Frederick C., to United States Packaging Corporation. Method and apparatus for collecting fines produced during the drying of charcoal briquettes. 3,645,517, 2-29-72, Cl. 263-52.
Mennen, Frederick C., to United States Packaging Corporation. Method and apparatus for desensitizing charcoal briquette fines. 3,663,185, 5-16-72, Cl. 44-2.
Mennen-Greatbatch Electronics, Inc.: *See—*
Weppner, Benjamin H.; Lefebvre, Leo P.; and Miller, Victor R., 3,690,313.
Mennesson, Andre L., to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Fuel feed devices for internal combustion engines. 3,683,877, 8-15-72, Cl. 123-97.00b.
Mennesson, Andre Louis, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Fuel feed devices for internal combustion engines. 3,646,914, 3-7-72, Cl. 123-32.
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Unger, Richard; Seitz, Georg; Klockow, Michael; and Mehrhof, Werner, 3,686,164.

Merckbach, Heinrich; Glabisch, Dietrich; and Bartl, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Pigmented paints. 3,651,001, 3-21-72, Cl. 260-29.6.

Merco Products, Inc.: *See—*
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Mercury Metal Products, Inc.: *See—*
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Meredith, Curtis L.; and Von Bodungen, George A., to Copolymer Rubber & Chemical Corporation. Process for the production of high impact strength EPDM graft copolymers. 3,657,395, 4-18-72, Cl. 260-878.

Meredith, Curtis L.; and Von Bodungen, George A., to Copolymer Rubber & Chemical Corporation. Plastic composition and method of preparing same. 3,671,608, 6-20-72, Cl. 260-878.00r.

Meredith, Curtis L.; Barrett, Robert E.; and Bishop, William A., to Copolymer Rubber & Chemical Corporation. Process for preparing improved plastic compositions and the resulting products. 3,683,050, 8-8-72, Cl. 260-876.00r.

Meredith, Diven. Method and apparatus for filament winding. 3,648,940, 3-14-72, Cl. 242-54.

Meredith, Edwin L., Sr. Safety belt buckle construction. 3,704,492, 12-5-72, Cl. 24-223.000.

Meredith, Gary L., to Tamar Electronics Industries, Inc. Fail-safe vehicle detector system. 3,662,330, 5-9-72, Cl. 340-38.

Meredith, William Henry Palmer; and Vandeput, Andre. Document presentation device. 3,642,370, 2-15-72, Cl. 355-75.

Mereen, Donald E.; and Barrett, Jack E. J., to Midwest Communications & Audio, Incorporated. System for selection and remote control with sequential decoding having plural decoding stages. 3,675,205, 7-4-72, Cl. 340-147.000.

Meresz, Henry: *See—*
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Merfeld, Michael J.; and Truesdell, Merlyn R., to Century Engineering Corporation. High pressure washer with detergent on-off nozzle. 3,675,851, 7-11-72, Cl. 239-318.000.

Mergens, Gerald R., to Guyer, Reynolds, Inc. Shipping and display containers. 3,664,494, 5-23-72, Cl. 206-44.

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Mergerian, Dickron: *See—*
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Bozanic, Donald A.; Mergerian, Dickron; and Minarik, Ronald W., 3,671,855.
Fisher, Peter D.; Mergerian, Dickron; and Minarik, Ronald W., 3,691,383.

Mergerian, Dickron, to Westinghouse Electric Corporation. Cyclotron resonance frequency-selective limiter using inhomogeneous RF magnetic field. 3,673,500, 6-27-72, Cl. 325-473.000.

Merges, John C., Jr.: *See—*
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Ware, Richard E.; and Merges, John C., Jr., 3,704,145.

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Merhar, Donald M., to Honeywell Inc. Piezoelectric vehicle impact sensor. 3,701,903, 10-31-72, Cl. 307-9.000.

Merhof, Wilfried; and Noser, Renato, to Aktiengesellschaft Brown, Boveri & Cie. Exciter arrangement for synchronous motors. 3,667,014, 5-30-72, Cl. 318-167.

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Merianos, John J.: *See—*
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Merianos, John J.; Shay, Edward Griffin; Adams, Phillip; and Petrocci, Alfonso N., to Millmaster Onyx Corporation. N-(Halogenated biphenyl)-diethylene triamines. 3,663,620, 5-16-72, Cl. 260-570.5.

Merideth, John G. Modular structural plaque assembly. 3,699,738, 10-24-72, Cl. 52-578.000.

Meridian Industries, Inc.: *See—*
Bolinger, John F., 3,639,777.
Bolinger, John F., 3,646,359.
Bolinger, John F., 3,660,674.
Bolinger, John F., 3,684,896.

Merigan, Thomas C., Jr.; Eckstein, Fritz; and De Clercq, Eric Desire Alice, to Leland Stanford Junior University, The Board of Trustees of the. Synthetic polynucleotides. 3,687,808, 8-29-72, Cl. 195-28.00n.

Meriggi, Vincenzo, to Coffee Corporation, S.A. Coffee bar machine. 3,682,090, 8-8-72, Cl. 99-289.000.

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Meripol, Robert B., to Dresser Industries, Inc. Oil well pump with permanent connections and a plunger therefor. 3,689,206, 9-5-72, Cl. 417-547.000.

Merit Abrasive Products, Inc.: *See—*
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Meriz, Miquel Casas. Adjustable support beam. 3,703,269, 11-21-72, Cl. 248-354.00l.

Merk, Fritz; Debus, Gerhard; and Muller, Herbert Ewald, to Kalle Aktiengesellschaft. Process for forming a microfiche. 3,645,823, 2-29-72, Cl. 156-247.

Merkel, Hans; and Leibenzeder, Siegfried, to Siemens Aktiengesellschaft. Method for producing highly pure gallium arsenide. 3,657,004, 4-18-72, Cl. 117-201.

Merkel, Hans; and Leibenzeder, Siegfried, to Siemens Aktiengesellschaft. Method of producing highly pure, particularly silicon free gallium arsenide. 3,690,847, 9-12-72, Cl. 23-294.000.

Merkel, Joseph R., to Lehigh University. Method of producing collagenase with a species of vibrio. 3,677,900, 7-18-72, Cl. 195-66.00r.

Merkel, Karl: *See—*
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Merkenschlager, Hans-Hermann, to Siemens Aktiengesellschaft. Process for the production of a circuit board. 3,675,318, 7-11-72, Cl. 29-624.000.

Merkenschlamer, Hans-Hermann, to Siemens Aktiengesellschaft. Process of producing plated through-hole printed circuit boards. 3,702,284, 11-7-72, Cl. 204-15.000.

Merker, Joachim: *See—*
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Merkin, Billie C., to Aluminum Company of America. Wall structure with snap-on header and sill members. 3,631,647, 1-4-72, Cl. 52-300.

Merkin, Billie C., to Aluminum Company of America. Sill anchoring structure. 3,664,078, 5-23-72, Cl. 52-293.

Merkle, Alfred; Schlicker, Volker; and Wrobel, Gunter, to Papst-Motoren KG. Lubrication device for rotation machine parts. 3,703,221, 11-21-72, Cl. 184-6.270.

Merkle, Eberhardt, to Bleyle, Wilhelm, KG. Apparatus for the impaling of weft-knitted and warp-knitted goods on needles. 3,696,764, 10-10-72, Cl. 112-25.000.

Merkle, Hans: *See—*
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Merkner, Albert H.; Viecili, Alessandro; and McCoy, Robert C.; deceased (by McCoy, Betty May Cornell; legal representative), said Merkner and said Viecili assor. to Heinz, H. J., Company.

Container unloading and transferring apparatus. 3,653,525, 4-4-72, C. 214-309.
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Balmat, Georges; and Jaillet, Jean, 3,639,712.
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Merlino, Eugene L., Jr.: *See—*
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Merlino, Thomas R.; Flickinger, John H.; and McFadden, Russell T., to Dow Chemical Company, The. Low temperature curing process and coating compositions suitable therefor. 3,702,349, 11-7-72, Cl. 260-830.00r.
Merlo, Angelo Louis. Combustion microwave diagnostic system. 3,703,825, 11-28-72, Cl. 73-116.000.
Mermelstein, Seymour, to Tyco Laboratories, Inc. Apparatus for stabilizing a rotary saw blade. 3,661,045, 5-9-72, Cl. 83-676.
Mermelstein, Seymour, to Tyco Laboratories, Inc. Releasable buckle. 3,696,471, 10-10-72, Cl. 24-193.000.
Mermelstein, Seymour, to Tyco Laboratories, Inc. Precision linear motion converting and position measuring apparatus. 3,699,819, 10-24-72, Cl. 74-25.000.
Merminod, Charles, to Societe Anonyme Conrad Zschokke. Process for protecting a wall subjected to wear. 3,654,014, 4-4-72, Cl. 156-215.
Merola, Anthony, to Amerola Products Corporation, mesne. Gripping device. 3,653,708, 4-4-72, Cl. 294-102.
Merola, Anthony, to Amerola Products Corporation. Billiard ball rack. 3,672,671, 6-27-72, Cl. 273-22.000.
Merola, Anthony, to Amerola Products Corporation. Ball bat with eccentrically thickened walls. 3,697,069, 10-10-72, Cl. 273-72.000.
Merola, Armando J.: *See—*
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Merold, Robert Lee: *See—*
Shmerling, Zvi; Kiron, Israel; and Merold, Robert Lee, 3,662,919.
Meroney, Albert H. System for filling a flexible sealable container. 3,646,723, 3-7-72, Cl. 53-390.
Merrell, Richard G.; and Hendrickson, Melvin C., to Zenith Radio Corporation. Synchronization phase-lock system for a digital vertical synchronization system. 3,691,297, 9-12-72, Cl. 178-69.5tv.
Merriam, Asaph U.: *See—*
Veltri, Richard D.; Merriam, Asaph U.; and Basche, Malcolm, 3,700,486.
Merriam, James D.: *See—*
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Merriam, John B., to Woodall Industries Inc., mesne. Method of making plastic laminate having high abrasion resistance. 3,661,673, 5-9-72, Cl. 156-279.000.
Merriam, Marshall F., to Gulf Oil Corporation. Apparatus for power transmission. 3,675,042, 7-4-72, Cl. 307-147.
Merriam, Mylon, to United States of America, Army. Topographic map and process for symbolizing photographs. 3,667,948, 6-6-72, Cl. 96-44.000.
Merrick, Edward V.; and Ahrens, William L., to Mark Systems, Inc. Method and apparatus for testing a processing web. 3,648,589, 3-14-72, Cl. 95-90.5.
Merrick Scale Mfg. Company: *See—*
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Merrick, William C.: *See—*
Maskell, Richard N.; Merrick, William C.; and Voges, Fred P., 3,656,256.
Merrick, William C.; and Zwierzyna, Casimir E., to Container Corporation of America. Spacer for cased cylindrical objects. 3,635,330, 1-18-72, Cl. 206-3.
Merrick, Woodrow W.: *See—*
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Morane, Bruno; Paoletti, Charles; Merrien, Louis; Sathicq, Robert; and Maurelli, Manlio, 3,659,395.
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Merrifield, Richard E.: *See—*
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Merril, Stewart H.; and Olson, James R., to Eastman Kodak Company. Dry electroscopic toner compositions. 3,694,359, 9-26-72, Cl. 252-62.100.
Merrill, Alvin S.; and Rosenhan, Bill J., to Moroni Corporation. Open gun sights for small arms. 3,698,091, 10-17-72, Cl. 33-233.000.
Merrill, Claude I., to Dow Chemical Company, The. Perfluoro-alkyl-containing sulfonate esters. 3,658,872, 4-25-72, Cl. 260-456.
Merrill, Clifford C.; and Strombeck, Carl E. Interlocking metal shingle construction. 3,667,184, 6-6-72, Cl. 52-530.
Merrill, Edward J., to Warner-Lambert Pharmaceutical Company. Urea derivatives of dodecahydro-5,9-methanobenzocyclooctenes. 3,689,528, 9-5-72, Cl. 260-482.00c.
Merrill, Edward W., to Estin, Hans H.,, Cronkhite, Leonard W., Jr., Wolbach, William W.; trustees of and River, Charles, Foundation, The. Apparatus for removing lipids from the human blood stream. 3,638,639, 2-1-72, Cl. 128-2.
Merrill, Edward W.; and Wong, Patrick Seck-Lai, to Massachusetts Institute of Technology. Acetalated crosslinked polyvinyl alcohol hydrogels. 3,658,745, 4-25-72, Cl. 260-29.6.
Merrill, Edward W., to Estin, Hans H., Cronkhite, Leonard W., Jr., Wolbach, William W.; trustees of and River, Charles, Foundation, The. Magnetically operated capsule for administering drugs. 3,659,600, 5-2-72, Cl. 128-172.
Merrill, Edward W.; and Wong, Patrick Seck-lai, to Massachusetts Institute of Technology. Non-thrombogenic materials and methods for their preparation. 3,673,612, 7-4-72, Cl. 3-1.000.
Merrill, Edward W., to Estin, Hans H., Cronkhite, Leonard W., Jr., Wolbach, William W.; trustees of and Charles River Foundation, The. Micropump. 3,677,444, 7-18-72, Cl. 222-135.000.
Merrill, Edward W., to Estin, Hans, Cronkhite, Leonard W., Jr., Wolbach, William W.; trustees of and Charles River Foundation, The. Capsules and method for testing capsules for wall integrity. 3,678,756, 7-25-72, Cl. 73-49.300.
Merrill, Edward W., to Estin, Hans H., Cronkhite, Leonard W., Jr., Wolbach, William W.; trustees of and Charles River Foundation, The. Polysiloxanes in admixing with hydrates or carbonates useful for removing hydrocarbons from tobacco smoke. 3,679,625, 7-2-72, Cl. 260-37.0sb.
Merrill, Edward W., to Estin, Hans H., Cronkhite, Leonard W., Jr., Wolbsch, William W.; trustees of and River, Charles, Foundation, The. Exhaust purification. 3,683,626, 8-15-72, Cl. 60-279.000.
Merrill, Edward W.; and Pikarsky, Jacob M., to Grace, W. R., & Co. Container closure gasket made from a novel plastisol composition. 3,696,956, 10-10-72, Cl. 215-40.000.
Merrill, John F.: *See—*
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Merrill, La Vaun S., Jr.; and Schilson, Robert E., to Marathon Oil Company. Process for the production of synthesis gas, cracked hydrocarbon and calcined coke. 3,676,517, 7-11-72, Cl. 260-679.00r.
Merrill, Linus R.: *See—*
Dixson, Richard E.; and Merrill, Linus R., 3,701,375.
Merrill, Marcellus S. Method and apparatus for determining caster trail. 3,680,369, 8-1-72, Cl. 73-117.000.
Merrill, Richard C.: *See—*
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Wright, Archibald N.; and Merrill, Richard C., 3,665,269.
Merrill, Ronald E. Form for a concrete wall structure. 3,638,382, 2-1-72, Cl. 52-359.
Merrill, Stewart H.: *See—*
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Contois, Lawrence E.; and Merrill, Stewart H., 3,652,269.
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Merrill, Stewart H., to Eastman Kodak Company. Novel $\alpha\sim\alpha'$-bis(aminobenzylidene) aryldiacetonitrile photoconductors. 3,653,887, 4-4-72, Cl. 96-1.
Merrill, Stewart H., to Eastman Kodak Company. Process and compositions for protecting images with resin films. 3,669,859, 6-13-72, Cl. 204-181.000.
Merrill, Stewart H., to Eastman Kodak Company. Photoconductive elements containing polymeric binders. 3,703,371, 11-21-72, Cl. 96-1.600.
Merrill, Stewart H., to Eastman Kodak Company. Photoconductive elements containing polymeric binders. 3,703,372, 11-21-72, Cl. 96-1.600.

Merrill, Wayne S.: *See—*
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Merrimac Research and Development Company: *See—*
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Merriman, Horace B.; Collier, William A. H.; and Richardson, Barry A., to Wickman Machine Tool Sales Limited. Coining presses. 3,683,667, 8-15-72, Cl. 72-446.000.
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Wayson, Andrew J.; and DeStefano, Richard T., 3,669,219.
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Merrin, Seymour, to Innotech Corporation. Insulated gate field effect device having glass gate insulator. 3,676,756, 7-11-72, Cl. 317-235.000.
Merritt, Edward E.: *See—*
Horn, William B.; Merritt, Edward E.; and Schmidt, Delbert D., 3,688,699.
Merritt, Edward E., to Federal Cartridge Corporation. Shotgun shell wad. 3,662,683, 5-16-72, Cl. 102-42.00c.
Merritt, George J., to United States of America, Army. Skin cleaner reguiring no addition of water for cleaning therewith. 3,634,265, 1-11-72, Cl. 252-107.
Merritt, Herbert E., to Cincinnati Milacron Inc. Plastication control for injection molding machines. 3,693,946, 9-26-72, Cl. 259-191.000.
Merritt, John W.: *See—*
Harvey, Wirt T.; and Merritt, John W., 3,638,671.
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Merrow, George W., to Stanley Works, The. Hand tool with self-locking wedge connection. 3,639,013, 2-1-72, Cl. 306-33.
Merrow Machine Company, The: *See—*
Armstead, George B., Jr.; and Kelly, Edward A., 3,638,594.
Merry Companies Incorporated: *See—*
Nichols, Charles E., Jr.; and Howard, Gerald T., 3,660,214.
Merry, Donald D., to Rozinante, Inc. Tape cartridge. 3,642,220, 2-15-72, Cl. 242-55.19.
Merry, Donald D., to Rozinante Electronic Corporation. Stationary pinch pad. 3,648,941, 3-14-72, Cl. 242-55.19.
Merry, Jack D.: *See—*
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Merryman, George B.; and Merryman, Joseph H. Vibration monitoring system. 3,677,077, 7-18-72, Cl. 73-146.000.
Merryman, Jerry Dale, to Texas Instruments, Incorporated. Digital cathode-ray tube linearity corrector. 3,648,097, 3-7-72, Cl. 315-24.
Merryman, Joseph H.: *See—*
Merryman, George B.; and Merryman, Joseph H., 3,677,077.
Merryman, Ralph H.: *See—*
Rackley, John M.; and Merryman, Ralph H., 3,650,476.
Merryweather, Gerald. Combined rod and reel. 3,685,195, 8-22-72, Cl. 43-18.000.
Merryweather, Gerald. Combination breadboard and ironing board. 3,688,706, 9-5-72, Cl. 168-152.000.
Merryweather, Lloyd. Sprinkler head protector. 3,703,992, 11-28-72, Cl. 239-201.000.
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Mertens, Johann, to Nuclear Waste Systems Company, mesne. Mounting apparatus for remote disengagement and engagement of submersible pumps. 3,667,715, 6-6-72, Cl. 248-327.000.
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Drechsel, Herbert; Rowedder, Gustav; Dorr, Karl-Heinz; and Grimm, Hugo, 3,656,900.
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Metcalf, Charles B., Jr. Device for separating shrimp from other sea animals. 3,668,801, 6-13-72, Cl. 43-17.100.
Metcalf, Eric, to Solartron Electronic Group Limited, The. Repetitive sampling weighted function converter. 3,659,086, 4-25-72, Cl. 235-150.510.
Metcalf, James F.; and Klingerman, Robert H., to Cragmet Corporation. Susceptor. 3,696,223, 10-3-72, Cl. 219-10.490.
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Metevia, Virgil L.; Narlock, Raymond M.; and Mast, Milfred E., to Dow Corning Corporation. Article of silicone rubber having surfaces resistant to dirt pick-up. 3,677,877, 7-18-72, Cl. 161-164.000.
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Metil, Ignatius, to Ameron, Inc. Acid catalyst system for furan resins of filler containing acid salts. 3,700,604, 10-24-72, Cl. 252-428.000.
Metivier, Robert. Gaseous flux distributor. 3,661,368, 5-9-72, Cl. 261-63.
Metlesics, Werner; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 2,3-Dihydro-4-hydroxy-5-phenyl-1H-1,4-benzodiazepines and preparation thereof. 3,644,336, 2-22-72, Cl. 260-239.
Metlesics, Werner; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 2,3,4,9-Tetrahydro-9-phenyl-oxazirino [2,3-d] [1,4] benzodiazepines and preparation thereof. 3,644,419, 2-22-72, Cl. 260-333.
Metlesics, Werner; and Wehrli, Pius Anton, to Hoffmann-La Roche Inc. Complexes of aluminum trichloride or borontrifluoride with hydroquinone and preparation thereof. 3,651,113, 3-21-72, Cl. 260-448.
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Metrailer, William J., to Esso Research and Engineering Company. Process for coking heavy hydrocarbons in a single vessel. 3,702,819, 11-14-72, Cl. 208-127.000.
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Mets, Edwin J., to General Electric Company. Process for simultaneously gettering, passivating and locating a junction within a silicon crystal. 3,701,696, 10-31-72, Cl. 148-175.000.
Metsker, William E., to Avco Corporation. Vehicle body construction. 3,637,252, 1-25-72, Cl. 296-31.
Mette, Herbert B., to Questor Corporation. Sealing construction. 3,664,535, 5-23-72, Cl. 215-11.
Mettetal, Donald, Jr. Mobile refuse compacting apparatus. 3,691,967, 9-19-72, Cl. 100-100.000.
Mettler, Hal C. Short wave diathermy circuit. 3,638,657, 2-1-72, Cl. 128-422.
Mettler Instrumente A.G.: *See—*
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Metz, Jack L., to Teletype Corporation. Electrostatic printer. 3,641,588, 2-8-72, Cl. 346-75.
Metz, Jack L., to Teletype Corporation. Momentary multiple contact switch and operating key therefor. 3,671,700, 6-20-72, Cl. 200-160.000.
Metz, Louis C., to Sperry Rand Corporation. Digital-to-synchro/resolver converter. 3,675,234, 7-4-72, Cl. 340-347.0da.
Metz, Louis C., to Sperry Rand Corporation. Synchro-to-digital converter. 3,688,303, 8-29-72, Cl. 340-347.50y.
Metz, Robert Forcier: *See—*
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Metz, Robert Lee; and Greenblum, Carl, to Bunker-Ramo Corporation, The. Graphic display system. 3,648,270, 3-7-72, Cl. 340-324.
Metz, Thomas A.: *See—*
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Metz, Thomas A.; and Womack, Karl K., to International Business Machines Corporation. Processor with improved controls for selecting an operand from a local storage unit, an ALU output register or both. 3,651,476, 3-21-72, Cl. 340-172.5.
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Metzger, Benjamin A.; and Miller, Harry E., to Pryonics, Incorporated. Continuous process brazing method and apparatus. 3,702,692, 11-14-72, Cl. 263-6.00r.
Metzger, Carl: *See—*
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Metzger, Carl; Borrmann, Dieter; Wegler, Richard; Eue, Ludwig; and Hack, Helmuth, to Farbenfabriken Bayer Aktiengesellschaft. 1,2,4-Thiadiazolyl-ureas. 3,686,198, 8-22-72, Cl. 260-306.80d.
Metzger, Carl P. Fishing lure. 3,685,191, 8-22-72, Cl. 43-42.050.
Metzger, Ernest: *See—*
Marggraf, Kurt A.; and Metzger, Ernest, 3,672,232.
Metzger, Hans Siegfried, to Moeller & Neumann G.m.b.H. Rolling mill or calendar with crown control of the rolls for rolling flat material. 3,659,450, 5-2-72, Cl. 72-237.
Metzger, Hans Siegfried; and Gilges, Fred, to Moeller & Neumann G.m.b.H. Screw down device for rolling mill frames and calenders. 3,659,451, 5-2-72, Cl. 72-248.
Metzger, Harold W., to Fischer & Porter Company. Variable-area flowmeter with removable metering tube. 3,691,835, 9-19-72, Cl. 73-209.000.
Metzger, John A.: *See—*
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Metzger, Karl: *See—*
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Metzger, Karl Georg: *See—*
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Ley, Kurt; Eholzer, Ulrich; Nast, Roland; Metzger, Karl Georg; and Fritsche, Dieter, 3,660,391.
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Metzger, Karl-Georg: *See—*
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Nast, Roland; Ley, Kurt; Eholzer, Ulrich; Metzger, Karl-Georg; and Fritsche, Dieter, 3,639,400.
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Metzger, Lenard M.: *See—*
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Metzger, Lenard M., to Eastman Kodak Company. Scanning apparatus responsive to the movement of image bearing media. 3,651,254, 3-21-72, Cl. 178-7.2.
Metzger, Lenard M.; Bresson, Richard J.; and McConaughey, Randall T., to Eastman Kodak Company. Camera apparatus for controlling diaphragm and shutter speed. 3,662,659, 5-16-72, Cl. 95-10.0cd.
Metzger, Lenard M., to Eastman Kodak Company. Digital encoding apparatus for the synchronization of separate pictures and sound records. 3,664,735, 5-23-72, Cl. 352-24.000.
Metzger, Leopold H.; and Miller, Harold C., to Super-Cut, Inc. Rotary grinding wheel. 3,664,068, 5-23-72, Cl. 51-209.
Metzger, Louis G., to JFD Electronics Corporation. Trimmer capacitor for printed circuit board. 3,681,664, 8-1-72, Cl. 317-101.00c.
Metzger, Louis G., to JFD Electronics Corporation. Low height ceramic capacitor for printed circuit board mounting. 3,705,335, 12-5-72, Cl. 317-249.00d.
Metzger, Nelson D.: *See—*
Altherr, Russell G.; Shramovich, Paul F.; and Metzger, Nelson D., 3,640,402.
Metzger, Reinhold, to VDO Tachometer Werke Adolf Schindling GmbH. Apparatus for the transmission of a rotary movement through the wall of a chamber under pressure. 3,664,202, 5-23-72, Cl. 74-18.1.
Metzger, Robert W., Jr.: *See—*
Buck, Robert E.; Metzger, Robert W., Jr.; Rittmann, Albert D.; and Sayers, Eugene H., 3,679,946.
Metzger, Sidney H., Jr.; and Over, John E., to Mobay Chemical Company. Polyesterurethanes stabilized with iminocarbonates. 3,637,583, 1-25-72, Cl. 260-45.8.
Metzger, Sidney H., Jr., to Mobay Chemical Company. Polyesterurethanes stabilized with imino-oxazines. 3,640,952, 2-8-72, Cl. 260-45.8.
Metzger, Sidney H., Jr., to Baychem Corporation. Method for preparing iminooxazolidines from guanidines. 3,689,499, 9-5-72, Cl. 260-307.00f.
Metzger, William J., to Midland-Ross Corporation. Railway car coupler. 3,655,066, 4-11-72, Cl. 213-100.
Metzger, William J., to Midland-Ross Corporation. Car coupler. 3,670,901, 6-20-72, Cl. 213-151.000.
Metzger, William J., to Midland-Ross Corporation. Railway car coupler. 3,693,809, 9-26-72, Cl. 213-100.00r.
Metzger, William J., to Midland-Ross Corporation. Car coupler. 3,698,570, 10-17-72, Cl. 213-146.000.
Metzinger, Leonard L.: *See—*
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Metzler, Charles Walter, Jr., to Westinghouse Electric Corporation. Gas cooled turbine blade. 3,635,585, 1-18-72, Cl. 416-96.
Metzner, Irving L.; and O'Connell, Daniel C., to Colgate-Palmolive Company. Foldable-portable stove. 3,683,886, 8-15-72, Cl. 126-9.00r.
Metzner, Robert; Dashew, Stanley A.; and Varney, Justin A., to Security Pacific National Bank, mesne. Resilient gripping railway traction system. 3,648,617, 3-14-72, Cl. 104-94.
Metzner, Wolfgang: *See—*
Kreuder, Manfred; Metzner, Wolfgang; Sobel, Johannes; Himmelmann, Wolfgang; and Nittel, Fritz, 3,687,671.

Metzner, Wolfgang; and Peilstocker, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Protection of organic substances against UV radiation. 3,634,320, 1-11-72, Cl. 260-45.85.

Meudon, Jean: *See—*
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Meuleman, Johannes, to U.S. Philips Corporation. Radiation detector having a semiconductor crystal. 3,646,407, 2-29-72, Cl. 317-234.

Meuleman, Johannes, to U.S. Philips Corporation. Radiation detector having a clamped crystal. 3,646,410, 2-29-72, Cl. 317-235.

Meuleman, Johannes; and Aussant, Michel, to U.S. Philips Corporation. Radiation detector. 3,697,825, 10-10-72, Cl. 317-234.00r.

Meulemans, Charles Cornelis Eduard; and Van Der Tas, Johannes Cornelis, to U.S. Philips Corporation. Photoflash lamp. 3,685,947, 8-22-72, Cl. 431-95.000.

Meulendyk, John W., to Pneumo Dynamics Corporation. Variable height vehicle suspension. 3,689,103, 9-5-72, Cl. 280-124.00f.

Meuller, William J.; and Nowacki, Louis J., to Battelle Memorial Institute. Ships hull coated with antifouling silicone rubber. 3,702,778, 11-14-72, Cl. 117-75.000.

Meuly, Walter C.; and Gradeff, Peter S., to Rhodia, Inc. Process for alkylation of aliphatic ketones and product. 3,668,255, 6-6-72, Cl. 260-586.00r.

Meunier, Albert E., 20% to Lee, Raymond, Organization, Inc., The. Ball target comprising a hollow spherical chamber and tubes extending therefrom. 3,656,750, 4-18-72, Cl. 273-105.

Meunier, Henry E.; and Eymard, Pierre L., to Laboratoires J. Berthier S.A. Homatropine dipropylacetate. 3,649,630, 3-14-72, Cl. 260-292.

Meunier, Henry E.; and Eymard, Pierre L. Method of inducing analgesia with dialkylacetylanilides. 3,659,013, 4-25-72, Cl. 424-324.

Meunier, Jean: *See—*
Fedi, Leto; Meunier, Jean; and Vertut, Jean, 3,682,208.

Meunier, Joseph R. J.; and Wieg, Heinrich J., to Bendix Corporation, The. Precision position indicator. 3,699,560, 10-17-72, Cl. 340-239.00r.

Meunier, Renee J. Louise; and Marmonier, Monique Adele, to Sertna, Societe d'Etudes et de Recherches de Techniques Nouvelles Appliquees S.A. Apparatus for purifying blood. 3,664,506, 5-23-72, Cl. 210-282.000.

Meuret, Pierre Henri: *See—*
Coin, Rene Georges; Croo, Robert-Justin; and Meuret, Pierre Henri, 3,681,546.

Meusburger, Lyle M.: *See—*
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Meuters, Gunther: *See—*
Preinfalk, Franz; and Meuters, Gunther, 3,703,943.

Mevenkamp, Paul; and Marsch, Hans-Dieter, to Unde, Friedrich, G.m.b.H. Process and apparatus for heating hydrocarbons. 3,688,494, 9-5-72, Cl. 60-39.020.

Mevenkamp, Paul, to Unde, Friedrich, G.m.b.H. High pressure heat exchanger for ammonia gas synthesis plants. 3,704,690, 12-5-72, Cl. 122-7.00r.

Mevissen, Ernst A.: *See—*
Coulter, Stanley M.; and Mevissen, Ernst A., 3,679,195.

Mevissen, Ernst A.; and Coulter, Stanley M., to Dravo Corporation. Support assembly for a tiltable hot metal processing vessel. 3,653,648, 4-4-72, Cl. 266-36.

Mevissen, Ernst A.; and Coulter, Stanley M., to Dravo Corporation. Support assembly for a tiltable hot metal processing vessel. 3,653,649, 4-4-72, Cl. 266-36.

Mevissen, Ernst A., to Dravo Corporation. Metal converting furnace apparatus. 3,695,602, 10-3-72, Cl. 266-36.00p.

Mewes, Fritz W.: *See—*
Klauer, Friedrich W.; and Mewes, Fritz W., 3,649,157.

Meye, Reinhold Walter; and Thor, Gunter, to Henkel & Cie, G.m.b.H. Process for the continuous manufacture of marbelized soap bars. 3,663,671, 5-16-72, Cl. 264-75.

Meyer, Alfred: *See—*
Corte, Herbert; and Meyer, Alfred, 3,637,535.

Meyer, Alfred E., to Anetsberger Brothers, Inc. Production broiler with hanging food holders. 3,664,257, 5-23-72, Cl. 99-427.

Meyer, Alvin. Method of fabricating picture puzzle and puzzle produced thereby. 3,692,312, 9-19-72, Cl. 273-157.00r.

Meyer, Amos J., II: *See—*
Schmitt, Peter C.; Vette, Carl W.; and Meyer, Amos J., II, 3,702,899.

Meyer, Andre: *See—*
Losi, Salvatore; Henzi, Rene; and Meyer, Andre, 3,692,641.

Meyer, Andre; and Foulke, Donald Gardner, to Sel-Rex Corporation. Process of electroplating rhenium and bath for this process. 3,668,083, 6-6-72, Cl. 204-43.000.

Meyer, Arnfried. Drum dryer for laundry. 3,651,580, 3-28-72, Cl. 34-133.

Meyer, Barthold F., to General Motors Corporation. Vehicle body door lock. 3,649,061, 3-14-72, Cl. 292-336.3.

Meyer, Barthold F., to General Motors Corporation. Selt belt retractor. 3,659,800, 5-2-72, Cl. 242-107.4.

Meyer, Barthold F., to General Motors Corporation. Closure latch. 3,692,343, 9-19-72, Cl. 292-216.000.

Meyer, Bennett A.; and McGuire, Kenyon E. B., to Singer Company, The, mesne. Undervoltage protection device. 3,648,145, 3-7-72, Cl. 320-13.

Meyer, Bruton S.; and Glass, Marvin I., to Glass, Marvin, & Associates. Game with projectile launching rotor. 3,643,954, 2-22-72, Cl. 273-119.

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Meyer, Burton C.; and McKay, Robert S., to Glass, Marvin, & Associates. Surface rebounding apparatus including ball, racket, and rebound surface. 3,671,040, 6-20-72, Cl. 273-95.00r.

Meyer, Burton C., to Glass, Marvin, & Associates. Maze type game. 3,706,455, 12-19-72, Cl. 273-110.000.

Meyer, Byron W.; and Wright, William F., to Pillsbury Company, The. Extrusion control apparatus. 3,676,032, 7-11-72, Cl. 425-140.000.

Meyer, Carl R., to Aquaslide "N" Dive Corporation. Cantilever stand. 3,697,067, 10-10-72, Cl. 272-66.000.

Meyer, Charles; Maison, Francois; and Sangouard, Paul, to Electronique Marcel Dassault. Data-converting apparatus. 3,651,513, 3-21-72, Cl. 340-347.

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Meyer, Colette; and Rebeller, Michel, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for growing algae. 3,650,068, 3-21-72, Cl. 47-1.4.

Meyer, Curtis E.: *See—*
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Meyer, Dolph Allan; Phelps, Ross Leslie; Seidel, David Paul; Dykes, Edward Henry; Clipsham, Ian Sweet; Gray, Donald; and Ractivand, Theodore Demetrius, to Victa Limited. Safety flap arrangement for discharge apertures in rotary lawnmower baseplates. 3,636,86, 1-25-72, Cl. 56-320.2.

Meyer, Dolph Allan; Phelps, Ross Leslie; Sykes, Edward Henry; Clipsham, Ian Sweet; Seidel, David Paul; Gray, Donald; and Ractivand, Theodore Demetrius, to Victa Limited. Adjustable handle for lawnmowers. 3,694,855, 10-3-72, Cl. 16-111.00a.

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Meyer, Edward, to Sylvania Electric Products, Inc. Method of preparing a metal part to be sealed in a glass-ceramic composite. 3,669,715, 6-13-72, Cl. 117-53.000.

Meyer, Edward, to GTE Sylvania Incorporated. Glass frit-ceramic powder composition. 3,706,582, 12-19-72, Cl. 106-39.00r.

Meyer, Emilio G., to Mine Safety Appliances Italiana, S.p.A. Paramagnetic gas measuring device. 3,646,803, 3-7-72, Cl. 73-27.

Meyer, Engelbert A., to USM Corporation. Fastener assembly. 3,659,320, 5-2-72, Cl. 24-73.

Meyer, Engelbert A., to USM Corporation. Fastener. 3,670,368, 6-20-72, Cl. 24-73.000.

Meyer, Engelbert A., to USM Corporation. Structural assembly and clip. 3,680,272, 8-1-72, Cl. 52-17.000.

Meyer, Engelbert A., to USM Corporation. Fastener. 3,693,494, 9-26-72, Cl. 85-5.00r.

Meyer, Engelbert A., to USM Corporation. Solid cylindrical male fastener and structural assembly. 3,695,654, 10-3-72, Cl. 287-189.36r.

Meyer, Ernst; Grimm, Wolfgang Erlenbach; Gerlach, Klaus; and Linhart, Helmut, to Akzona Incorporated. Apparatus for mixing a pigment dispersion into polyamide melt. 3,704,863, 12-5-72, Cl. 259-8.000.

Meyer, Erwin; Brendel, Klaus-Dieter; Blau, Hans; and Stoof, Gerhard, to Grunzweig & Hartmann Aktiengesellschaft. Sound absorber construction. 3,647,022, 3-7-72, Cl. 181-33.
Meyer, Fred G. Apparatus for laying sprinkler pipe. 3,685,670, 8-22-72, Cl. 214-1.0pa.
Meyer, Fred H., to Picker Corporation. Motion picture projector. 3,642,357, 2-15-72, Cl. 352-189.
Meyer, Gaylord L., to Benis Company, Inc. Drawcord bag. 3,653,583, 4-4-72, Cl. 229-54.
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Meyer, Gerhard; Magerlein, Helmut; and Rupp, Hans-Dieter, to Glanzstoff AG. Process for the production of trichloromethanesulfenyl chloride. 3,673,246, 6-27-72, Cl. 260-543.00h.
Meyer, Gerhard; Magerlein, Helmut; and Rupp, Hans-Dieter, to Glanzstoff AG. Catalytic production of dimethyl sulfide. 3,686,328, 8-22-72, Cl. 260-609.00a.
Meyer, Gilbert R.; and Everett, Rollo J., to CPC International Inc. Low density starch hydrolysates. 3,674,555, 7-4-72, Cl. 127-29.000.
Meyer, Gunther, to Dynamit Nobel Aktiengesellschaft. Preparation of polyvinylchoride. 3,697,493, 10-10-72, Cl. 260-85.50h.
Meyer, Hans, to Meyer, Hans, Fabrik Vordruck-Systeme und Organisationsmittel Grossdruckerel und Verlag. Apparatus for separating copying tests. 3,706,405, 12-19-72, Cl. 225-9.004.
Meyer, Hans, Fabrik Vordruck-Systeme und Organisationsmittel Grossdruckerel und Verlag: *See—*
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Meyer, Harry M., Jr.; and Parkman, Paul D., to United States of America, Health, Education, and Welfare. Attenuated live rubella virus vaccine and method of production. 3,651,212, 3-21-72, Cl. 424-89.
Meyer, Heinrich F.; and Minchow, Edward L., to General Electric Company. Automatic wire nick detector for electric wire cut and strip machines. 3,645,156, 2-29-72, Cl. 83-9.
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Meyer, Heinz-Hermann: *See—*
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Meyer, Herbert, to Mannesmann Aktiengesellschaft. Apparatus for cutting thick-walled tubular elements. 3,662,999, 5-16-72, Cl. 266-23.0nn.
Meyer, Herbert, to Herald Press, Inc., The. Folder. 3,707,259, 12-26-72, Cl. 229-92.500.
Meyer, Holger, to Monsanto Company. Mono, di, and tri pyridine complexes of organotin compounds. 3,661,911, 5-9-72, Cl. 260-270.
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Meyer, Jack R., to Honeywell Inc. Measuring closely spaced pulses using time expansion. 3,668,529, 6-6-72, Cl. 328-129.000.
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Meyer, John Evert, to RCA Corporation. Logic circuits employing switches such as field-effect devices. 3,676,705, 7-11-72, Cl. 307-251.000.
Meyer, John V., to Texas Instruments, Incorporated. Process for making conductive polymers and resulting compositions. 3,673,121, 6-27-72, Cl. 252-511.000.
Meyer, John V., to Texas Instruments, Incorporated. Electrically heated device employing conductive-crystalline polymers. 3,689,736, 9-5-72, Cl. 219-222.000.
Meyer, Jurgen; and Sautter, Gerhard, to Siemens Aktiengesellschaft. Method and apparatus for automatic programmed control of a machine tool. 3,671,839, 6-20-72, Cl. 318-571.000.
Meyer, Jurgen; and Sautter, Gerhard, to Siemens Aktiengesellschaft. Method and apparatus for adaptive control of a turning machine. 3,671,840, 6-20-72, Cl. 318-571.000.
Meyer, Jurgen; and Sautter, Gerhard. Method and apparatus for adaptive programmed control of a turning machine tool. 3,684,873, 8-15-72, Cl. 235-151.110.
Meyer, Kurt; Rausch, Hans; and Thumm, Wilhelm, to Metallgesellschaft Aktiengesellschaft. Process of producing sponge iron pellets. 3,645,717, 2-29-72, Cl. 75-33.
Meyer, Kurt; and Thumm, Wilhelm, to Metallgesellschaft Aktiengesellschaft. Process for the manufacture of pellets of high compressive strength and abrasion resistance. 3,682,620, 8-8-72, Cl. 75-3.000.
Meyer, Kurt; Reuter, Gerhard; and Thumm, Wilhelm, to Metallgesellschaft Aktiengesellschaft. Process for treating minerals containing the FeO group. 3,684,485, 8-15-72, Cl. 75-23.000.
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Meyer, Robert F., to Parke, Davis & Company. 6-Aryl-2,7-bis[(triilkylsilyl) amino[pyrido [2,3-d] pyrimidine compounds. 3,639,401, 2-1-72, Cl. 260-256.4.
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Meyer, Ronald J.; Horsley, Orville E.; and Eichel, Herman J., to American Hoechst Corporation. Laxative pharmaceutical and methods of use. 3,663,703, 5-16-72, Cl. 424-275.
Meyer, Ronald J.; Horsley, Orville E.; and Eichel, Herman J., to American Hoechst Corporation. Laxatives comprising substituted bis (2-hydroxy-4-methyl-5-methylthiophenyl)methanes. 3,676,559, 7-11-72, Cl. 424-275.000.
Meyer, Ronald J.; Horsley, Orville E.; and Eichel, Herman J., to American Hoechst Corporation. 4,4,4-Trihydroxytriphenyl methylmethane as a laxative. 3,692,914, 9-19-72, Cl. 424-346.000.
Meyer, Ronel M.; and Bartley, Erle E., to Kansas State University Research Foundation. Method and preparation for controlling feedlot bloat in ruminants. 3,686,416, 8-22-72, Cl. 424-329.000.
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Meyerhoefer, Carl E., to General Signal Corporation. Wand lock for vacuum cleaner. 3,633,942, 1-11-72, Cl. 285-7.
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Meyers, James D.; and Mattson, John H. Circular billiard table with curved and straight bumper sections. 3,700,235, 10-24-72, Cl. 273-9.000.
Meyers, John S.; and Wolofski, Nicholas, to Hoover Ball and Bearing Company. Seat structure. 3,669,498, 6-13-72, Cl. 297-452.000.
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Meyers, Peter G.; Sweeney, Eric C.; and Brunkhardt, Frederick W., to Meyers Electrocooling Products, Inc. Refuse handling system. 3,677,422, 7-18-72, Cl. 214-17.00d.
Meyers, Raymond E.; and Eubanks, Edgar W., to SCM Corporation. Acid-stabilized epoxide resin coating compositions and method of preparing same. 3,678,004, 7-18-72, Cl. 260-47.0ec.
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Middlebrook, Terence C., to Phillips Petroleum Company. Blend of ethylene-butene copolymer with butadiene-styrene radial block copolymer. 3,678,134, 7-18-72, Cl. 260-876.00b.
Middleditch, Alan E., to Westinghouse Electric Corporation. Sampled data numerical contouring machine controller apparatus and method providable with on line capability for contour cornering deceleration and acceleration. 3,699,317, 10-17-72, Cl. 235-151.10.
Middleton, Edward B. Container including a rotable spherical valve with ring drive gear teeth. 3,690,521, 9-12-72, Cl. 222-507.000.
Middleton, Edward B. Closure having geared rotatable ball valve. 3,703,250, 11-21-72, Cl. 222-507.000.
Middleton, Edward Benjamin. Rotatable opening container closure. 3,703,249, 11-21-72, Cl. 222-597.000.
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Middleton, Ronald David, to Imperial Chemical Industries Limited. Polyamides. 3,687,904, 8-29-72, Cl. 260-78.00r.
Middleton, Thomas E., to Pre-Stress Concrete Inc. Apparatus for manufacturing a sheathed cable for use in post-tensioning concrete structures. 3,654,027, 4-4-72, Cl. 156-438.
Middleton, Thomas E., to Pre-Stress Concrete, Inc. Support for elongated reinforcing members in concrete structures. 3,693,310, 9-26-72, Cl. 52-685.000.
Middleton, William J., to Du Pont de Nemours, E. I., and Company. 1,1-Bis(trifluoromethyl)-2,2-diphenylethylenes having selected substituents on phenyl. 3,678,117, 7-18-72, Cl. 260-619.00r.
Middleton, William J., to Du Pont de Nemours, E. I., and Company. α,β-Bis(trifluoromethyl) stilbenes. 3,683,009, 8-8-72, Cl. 260-479.00r.
Middleton, William J., to Du Pont de Nemours, E. I., and Company. 2,2,5,5-Tetrakis(polyhalomethyl)-4-oxazolidinone herbicides. 3,690,862, 9-12-72, Cl. 71-88.000.
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Mikkola, John E., to General Motors Corporation. Control circuit for a liquid vaporizing tool. 3,686,475, 8-22-72, Cl. 219-272.000.

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Milakovich, Joseph. Detachable components for a chair. 3,632,150, 1-4-72, Cl. 287-20.926.

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Milde, Karl F., Jr. Apparatus for simulating musical sounds employing a scannable record and flying spot scanner. 3,652,776, 3-28-72, Cl. 84-1.28.

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Miller, Leo H.; and Colegrove, James A., to Burroughs Corporation. Lithoplate bender. 3,677,059, 7-18-72, Cl. 72-403.000.
Miller, Leroy J., to United States of America, Air Force. Treated carbon cloth for the preparation of composite structures and method of treatment. 3,637,424, 1-25-72, Cl. 117-118.
Miller, Leroy J.; and Bilow, Norman, to Hughes Aircraft Company. Commercially useful polyphenylene polymers and method of production thereof. 3,677,976, 7-18-72, Cl. 260-2.00h.
Miller, Lester L. Ventilator hood assembly. 3,661,070, 5-9-72, Cl. 98-68.
Miller, Lloyd E., Jr. Thermo-compensating valve lifter for internal combustion engines. 3,664,312, 5-23-72, Cl. 123-90.190.
Miller, Lloyd P. Rock face brick cleaning rake. 3,662,423, 5-16-72, Cl. 15-235.3.
Miller, Louis W.; Lipic, Leonard G.; Kestler, Louise E.; and Martz, William M., to Lipic, Joseph, Pen Co. Retractable ballpoint pen with variable enclosure. 3,652,173, 3-28-72, Cl. 401-110.
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Miller, Mark A. Panel mounting construction. 3,690,083, 9-12-72, Cl. 52-481.000.
Miller, Martin E., to Gold Line Connector, Inc. Swimming pool alarm. 3,683,353, 8-8-72, Cl. 340-261.000.
Miller, Martin P., to General Automotive Specialty Company, Inc. Switch having spider-shaped contact carrier. 3,676,617, 7-11-72, Cl. 200-44.000.
Miller, Marvin; Miller, Robert P.; and DeCholonoky, Tibor, Jr. Fingerprint identification system and method. 3,694,240, 9-26-72, Cl. 117-.500.
Miller, Mary Lucy, to American Cyanamid Company. Physiologically acceptible elastomeric article. 3,663,288, 5-16-72, Cl. 117-7.000.
Miller, Melvin M. Display devices. 3,662,807, 5-16-72, Cl. 160-135.
Miller, Merlin S.; and Russo, Ronald D., to Koehler-Dayton, Inc. Head conversion unit. 3,674,148, 7-4-72, Cl. 210-152.000.
Miller, Meryl E.: *See—*
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Miller, Michael Evans, to RCA Corporation. Phonograph pickup with self formed female receptacles. 3,699,268, 10-17-72, Cl. 179-100.41k.
Miller, Michael F.: *See—*
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Miller, Michael Robert, to Postmaster General, Her Majesty's. Digital communication systems. 3,651,408, 3-21-72, Cl. 325-58.
Miller Mold Company: *See—*
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Miller, Morris. Metallurgical microscopes with mirror stages. 3,633,991, 1-11-72, Cl. 350-91.
Miller, Murray Edwin, to Iroquois Promotion. Proof-of-purchase label. 3,702,511, 11-14-72, Cl. 40-306.000.
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Miller, Norman C., to North American Rockwell Corporation. Mechanical mounting for a thermoelectric couple. 3,664,880, 5-23-72, Cl. 136-205.000.
Miller, Norman K., to Miller Brothers. Safety edge construction for a powered door. 3,693,026, 9-19-72, Cl. 307-119.000.
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Miller, Peter H., to Evon Industries, Inc. Fastening structure for securing support brackets to a wall. 3,638,370, 2-1-72, Cl. 52-36.
Miller, Philip Andrew; and Trown, Patrick Willoughby, to American Cyanamid Company. 5,5ab,13,ab-Tetrahydro-5b, 13b-dihydroxy-8h, 16h-7a, 15a-epidithio-7h, 15h-bisoxepino (3',4':4,5) pyrrolo (1,2-a 1'2'-d)-pyrazine-7, using aspergillus terreus. 3,701,774, 1-31-72, Cl. 260-243.00r.
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Miller, Richard, to Maid-Mar Industries, Inc. Brassiere and supporting frames thereof. 3,702,614, 11-14-72, Cl. 128-476.000.
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Miller, Richard G., to PPG Industries, Inc. Electroless process for forming thin metal films. 3,672,939, 6-27-72, Cl. 117-54.000.
Miller, Richard G., to PPG Industries, Inc. Solution for depositing transparent metal films. 3,674,517, 7-4-72, Cl. 106-1.000.
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Miller, Richard H., to Trimil Corporation. Electro-mechanical reader for interpreting the neurological quotient of a subject. 3,680,545, 8-1-72, Cl. 128-2.00n.
Miller, Richard H., to General Electric Company. Disconnecting switch for force-cooled isolated phase bus. 3,701,866, 10-31-72, Cl. 200-144.00b.
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Miller, Robert; Witt, Jerry L.; and Tidmore, Mabry L., to Uniroyal, Inc. Adhesion of rayon textile to rubber with aqueous dispersion of blocked isocyanate or isocyanate dimer, rubber late and resorcinol-formaldehyde resin. 3,707,178, 12-26-72, Cl. 152-358.00.
Miller, Robert A., to Miller, R. A., Industries, Inc. Aircraft antenna with wound wire radiating surface. 3,699,579, 10-17-72, Cl. 343-702.000.
Miller, Robert B., Jr.; and Stephenson, Jerry E., to Carborundum Company, The. Filter cartridge and pack therefor and method of making same. 3,692,184, 9-19-72, Cl. 210-437.000.
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Miller, Robert E., to Monsanto Company. Process for the production of marbleized reinforced polyacrylic compositions. 3,663,493, 5-16-72, Cl. 260-31.8.
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Miller, Robert E., to Monsanto Company. Protein cross-linked with polymerized unsaturated carboxylic acid. 3,685,998, 8-22-72, Cl. 99-2.00r.
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Minsky Opytny Zavod Spetsialnogo Konstruktorskogo Bjuro No. 3: *See*—
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Minton, Carl H. Method and apparatus for joining strip ends employing a stitcher assembly. 3,670,398, 6-20-72, Cl. 29-505.000.
Minton, Clarence W., to Americal Corporation. Yarn cutter for hosiery knitting machines. 3,654,778, 4-11-72, Cl. 66-145.00s.
Minton, Clarence W., to Americal Corporation. Positive sinker control for multifeed knitting machines. 3,657,890, 4-25-72, Cl. 66-108.00r.
Minton, Robert G.; and Melamed, Sidney, to Rohm & Haas Company. Elastomeric materials and process therefor. 3,673,280, 6-27-72, Cl. 260-878.00r.
Mintray Limited: *See—*
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Mintz, Beatrice, to Institute for Cancer Research, The. Method of bioassay of fertility and contraceptive drugs. 3,690,310, 9-12-72, Cl. 128-2.00r.
Mintz, Maxie R. Post anchor. 3,694,978, 10-3-72, Cl. 52-166.000.
Mintz, Michael D., to International Technidyne Corporation. Method and system for analyzing a liquid. 3,695,842, 10-3-72, Cl. 23-230.00r.
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Minz, Franz-Rudolf; and Zirngiebl, Eberhard, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of sodium carbonate. 3,644,089, 2-22-72, Cl. 23-63.
Minzenberger, Thomas C., to Zenith Radio Corporation. Process of back etching a perforated metal mask for color TV tubes. 3,679,499, 7-25-72, Cl. 156-7.000.
Mio Marine Corporation: *See—*
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Miraldi, Peter Thomas, to American Sterilizer Company. Door assembly and chamber combination. 3,694,960, 10-3-72, Cl. 49-209.000.
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Mirjanic, Milorad, to Daimler-Benz Aktiengesellschaft. Cylinder block for liquid-cooled internal combustion engines with inserted cylinder liner. 3,672,263, 6-27-72, Cl. 92-144.000.
Mirjanic, Milorad, to Daimler-Benz Aktiengesellschaft. Method for the manufacture of centrifugal castings. 3,694,194, 9-26-72, Cl. 75-130.00r.
Mirkovic, Ninko Tihomir, to RCA Corporation. Brake apparatus. 3,638,881, 2-1-72, Cl. 242-204.
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Mirtain, Henri, to Uniroyal Englebert France S.A. High speed radial ply tires. 3,667,529, 6-6-72, Cl. 152-361.
Mirtain, Henri, to Uniroyal Englebert France S.A. Belted pneumatic tires. 3,677,319, 7-18-72, Cl. 152-361.000.
Mirtensen, Hans. Set of toy blocks. 3,696,533, 10-10-72, Cl. 35-70.000.
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Mirviss, Stanley B., to Stauffer Chemical Company. Vinyl chloride polymers stabilized with N-heterocyclic disulfides. 3,635,881, 1-18-72, Cl. 260-45.8.
Mirviss, Stanley B.; Greco, Carl C.; and Stamm, Walter, to Stauffer Chemical Company. Aryl ether thioanhydrides. 3,642,890, 2-15-72, Cl. 260-545.
Mirviss, Stanley B., to Stauffer Chemical Company. Hydroxynaphthoic anhydrides. 3,681,455, 8-1-72, Cl. 260-545.00r.
Mirviss, Stanley B.; and Schlechter, Melvin M., to Stauffer Chemical Company. Phosphino, phosphonodithioic acid secondary or tertiary heterocyclic amine salts. 3,682,905, 8-8-72, Cl. 260-247.100.
Mis, Frank J., to Harris-Hub Company, Inc. Bed frame assembly. 3,683,429, 8-15-72, Cl. 5-201.000.
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Misarek, Joseph; and Jaxheimer, William W., to Combustion Control Devices, mesne. Air pollution controller. 3,668,839, 6-13-72, Cl. 55-223.000.
Misato, Tomomasa; Huang, Keng Tang; Shirato, Shiroh; Seino, Akio; Nakamura, Yuko; Aizawa, Shojiro; and Taguchi, Ryusuke, to Kaken Kagaku Kabushiki Kaisha and Rikagaku Kenkyusho. Antibiotic aabomycin-A and process for preparing the same. 3,657,422, 4-18-72,Cl. 424-122.
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Tanaka, Katsunobu; Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,674,641.
Misch, Michae. Film matching apparatus. 3,656,843, 4-18-72, Cl. 352-129.
Misch, Robert D.; and Daus, Donald A., to MBT Corporation. Method of treating synthetic plastic and elastomeric materials and articles produced thereby. 3,637,416, 1-25-72, Cl. 117-72.
Mischek, Hugo, to Siler AG. Vehicle for transporting containerized freight. 3,690,489, 9-12-72, Cl. 214-390.000.
Mischel, Howard T., to AVRCA Corporation. Flexible coupling. 3,692,337, 9-19-72, Cl. 285-226.000.

Mischke, Joachim: *See—*
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Mischler, Terrence W.: *See—*
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Mise, Noritoshi; Yamada, Minoru; and Nishino, Ken-Ichi, to Takeda Chemical Industries, Ltd. Polyurethanes stabilized with p-phenylenediamines. 3,637,573, 1-25-72, Cl. 260-37.
Misek, Victor A.; and Myers, Robert, to Sanders Associates, Inc. Electro-optical perimeter intrusion alarm. 3,641,549, 2-8-72, Cl. 340-258.
Misek, Victor A., to Sanders Associates, Inc. Electro-optical target motion sensor. 3,677,647, 7-18-72, Cl. 356-28.000.
Misenheimer, James Reid: *See—*
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Misevich, Kenneth W., to Remington Arms Company, Inc. Return monitor with logic device. 3,631,892, 1-4-72, Cl. 137-608.
Misevich, Kenneth W., to Remington Arms Company, Inc. Sheet target with attachable stabilizing wings. 3,675,926, 7-11-72, Cl. 273-105.400.
Mishcon, Lester; and Reagan, Donald W., to Singer Company, The. Pattern wheel with pivotally mounted jacks. 3,660,991, 5-9-72, Cl. 66-50.00a.
Mishiro, Masaru: *See—*
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Mishkin, Abraham Rudolph; and Symbolik, William Stephen, to Societe d'Assistance Technique pour Produits Nestle S.A. Drying apparatus. 3,633,283, 1-11-72, Cl. 34-73.
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Mishler, Ralph Ephraim, to Globe-Union Inc. Apparatus for simultaneously applying a plurality of coatings to a substrate. 3,645,232, 2-29-72, Cl. 118-412.
Mishler, Ralph Ephraim, to Globe-Union Inc. Apparatus for successively applying a plurality of coatings to a substrate. 3,645,233, 2-29-72, Cl. 118-642.
Mishler, Ralph Ephraim, to Globe-Union Inc. Apparatus for repetitively applying coatings to a substrate. 3,665,890, 5-30-72, Cl. 118-412.000.
Mishler, Ralph Ephraim, to Globe-Union Inc. Production of resistive coatings. 3,676,212, 7-11-72, Cl. 117-212.000.
Miske, Stanley A., Jr., to General Electric Company. Current limiting sparkgap with means for regulating gap voltage. 3,663,856, 5-16-72, Cl. 313-325.
Miskei, Mihaly: *See—*
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Miskin, Richard B. Baled hay hoading apparatus for loading onto a transport vehicle. 3,667,779, 6-6-72, Cl. 280-473.
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Misner, Howard R., to Ford Motor Company. Apparatus for forming a bend in sheet material. 3,632,275, 1-4-72, Cl. 425-405.
Misomex Aktiebolag of Ellen Keys Gata: *See—*
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Missel, Leo, to International Business Machines Corporation. Shelf life improvement of electroplated solder. 3,639,218, 2-1-72, Cl. 204-40.
Missimer, Dale J., to Gulf & Western Industries, Inc. Control system for low temperature refrigeration system. 3,698,202, 10-17-72, Cl. 62-114.000.
Missio, Danilo V.; Wollman, Herbert; and Englander, Irving G., to Systron-Donner Corporation, mesne. Optical tanker-docking system. 3,690,767, 9-12-72, Cl. 356-5.000.
Mission Manufacturing Company: *See—*
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Misson, George W., to PPG Industries, Inc. Gas hearth with particular gas-supply channels. 3,682,610, 8-8-72, Cl. 65-182.00a.
Missouri Lead Operating Company: *See—*
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Missouri Research Laboratories, Inc.: *See—*
Dickman, John J., 3,696,527.
Fiehler, Raymond H.; Dickman, John J.; and Diamant, Max, 3,645,012.
Missud, Louis. Excrement receptacle device for animals. 3,656,459, 4-18-72, Cl. 119-95.
Mistarz, Robert J., to Cherry-Burrell Corporation, mesne. Machine for automatically forming, filling, closing and sealing cartons. 3,669,160, 6-13-72, Cl. 141-160.000.
Mistler, Richard E., to Western Electric Company, Incorporated. Strengthening alumina substrates by incorporating grain growth inhibitor in surface and promoter in interior. 3,652,378, 3-28-72, Cl. 161-182.
Mistrelettrica S.R.L.: *See—*
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Misu, Sadayuki. Vacuum bottle. 3,638,820, 2-1-72, Cl. 215-13.
Misuno, Komei: *See—*
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Misuraca, Louis J. Integrated and functionally improved electric erasing machine and accessory tool. 3,699,825, 10-24-72, Cl. 74-527.000.
Mita, Akio, to Industrial Science & Technology, Agency of. Method of manufacturing hydrogen sulfide and/or alkali metal sulfate from smelts. 3,653,822, 4-4-72, Cl. 23-121.
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Nihyakumen, Kouzi; Yokoyama, Taizo; Ueda, Yasuo; Kamezawa, Yasutoki; and Aizawa, Tatsuo, 3,653,903.
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Mita, Kunio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Automatic camera shutter. 3,631,777, 1-4-72, Cl. 95-10.
Mita, Kunio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Reflex camera with automatic exposure control. 3,695,159, 10-3-72, Cl. 95-10.00c.
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Mitacek, Bill, to Phillips Petroleum Company. Electrical cable having sheath layers bonded with adhesive. 3,697,670, 10-10-72, Cl. 174-107.000.
Mitamura, Rakuzo; Yamaya, Masatoshi; and Suzuki, Masakatsu, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Rear body construction for an automobile. 3,661,419, 5-9-72, Cl. 296-24.
Mitani, Masao; Aihara, Katzuzo; Kudo, Mitsuhiro; Hara, Nobuhiro; Irie, Fujio; and Yamafuji, Kaoru, to Hitachi, Ltd. Joesphson junction having an intermediate layer of a hard superconducting material. 3,697,826, 10-10-72, Cl. 317-234.00r.
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Mitchell, Allen F., to Galdonost Dynamics (N.Z.) Limited. Liquid fertilizer compositions. 3,649,239, 3-14-72, Cl. 71-23.
Mitchell, Archibald S., to LaSalle Machine Tool, Inc. Apparatus for detecting broken tools. 3,669,557, 6-13-72, Cl. 408-16.000.
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Mitchell, Chauncey L., III, to Electronic Assistance Corporation. Method and apparatus for separating particulate materials. 3,675,859, 7-11-72, Cl. 241-20.000.
Mitchell, Colin Campbell; deceased (by Wishart, Andrew; and by Pattullo, John Patrick; executors), to Brown Brothers & Company Limited. Stabilizing apparatus for ships. 3,688,726, 9-5-72, Cl. 114-126.000.
Mitchell, David F.; and Romanauskas, William A., to Sorvall, Ivan, Inc. Washing means for flexible bags in split enclosures. 3,674,197, 7-4-72, Cl. 233-14.00r.
Mitchell, David S.; Bridge, Alan G.; and Scott, John W., to Chevron Research Company. Heavy oil conversion using fine particles. 3,674,682, 7-4-72, Cl. 208-157.000.
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Mitchell, Donita L. Medicine dispenser with nipple-insert. 3,645,413, 2-29-72, Cl. 215-11.
Mitchell, Douglas, to Technicon Instruments Corporation. Analysis of fluids. 3,678,734, 7-25-72, Cl. 73-61.10r.
Mitchell, Drury K.: *See—*
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Mitchell, Ferd H.: *See—*
Coffin, Robert T.; Grundmeyer, Raymond W.; Hefner, William H.; and Mitchell, Ferd H., 3,662,389.
Mitchell, George F., Jr.; Morris, Robert D.; and Nevinsky, Michael, to Westinghouse Electric Corporation. High-current furnace transformer. 3,681,728, 8-1-72, Cl. 336-90.000.
Mitchell, Graham George: *See—*
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Mitchell, Harry Ian; and Tomlinson, Kenneth, to Colgate-Palmolive Company. Method and compositions for cleaning ovens and the like. 3,672,993, 6-27-72, Cl. 134-3.000.
Mitchell, Harry R.: *See—*
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Mitchell, Hartman, to Koppers Company, Inc. Pallet heat rib shield. 3,638,928, 2-1-72, Cl. 263-28.
Mitchell, Hartman; and Vietorisz, Joseph A., to Koppers Company, Inc. Water-cooled panel. 3,661,372, 5-9-72, Cl. 266-915.
Mitchell Industries, Inc.: *See—*
Younkin, James R., 3,648,230.
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Mitchell, Jack H., Jr. Process for making peanut flakes. 3,689,287, 9-5-72, Cl. 99-126.000.
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Alms, Erhard E.; and Mitchell, James E., 3,659,351.
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Mitchell, James E. Method of determining the concentration of inorganic sulfur compounds in a gas. 3,692,481, 9-19-72, Cl. 23-230.0pc.
Mitchell, James G.: *See—*
Mitchell, Winalee G.; and Mitchell, James G., 3,638,262.
Mitchell, James H.; and Mueggenburg, Hans H., to United States of America, Air Force. Platelet injector. 3,664,588, 5-23-72, Cl. 239-418.000.
Mitchell, James P.; and Brown, Bruce T., to United Aircraft Corporation. Injector head. 3,662,960, 5-16-72, Cl. 239-400.000.
Mitchell, James P.; and Cohen, Allan R., to United Aircraft Corporation. Dual orifice impingement injector. 3,667,232, 6-6-72, Cl. 60-258.000.
Mitchell, John: *See—*
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Mitchell, John. Synchronous radar recorder and reproducer. 3,634,858, 1-11-72, Cl. 343-5.
Mitchell, John E., to Hughes Aircraft Company. Intraconnector wiring change module. 3,671,918, 6-20-72, Cl. 339-18.00r.
Mitchell, John G., to Mobil Oil Corporation. Confinement of different miscible liquids in a single container. 3,658,080, 4-25-72, Cl. 137-1.
Mitchell, John H.: *See—*
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Mitchell, John H. Automatic log grappling mechanism. 3,651,952, 3-28-72, Cl. 212-84.
Mitchell, John H. Remote control grapple carriage operated by yarding machine. 3,695,672, 10-3-72, Cl. 294-112.000.
Mitchell, John Pat. Magnetic dental appliances and methods for using same. 3,646,676, 3-7-72, Cl. 32-2.
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Mitchell, Joseph A.; and Dyer, Norman D., to Dresser Industries, Inc. Pipe racking apparatus for oil well derricks or the like. 3,633,767, 1-11-72, Cl. 214-2.5.
Mitchell, Kenneth A. Thermal container assembly. 3,670,918, 6-20-72, Cl. 220-20.000.
Mitchell, Kim L.: *See—*
Campbell, Hollis O.; Fetrow, John W.; and Mitchell, Kim L., 3,704,681.
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Mitchell, Lawrence C., to Ethyl Corporation. Preparation of beta branched primary alcohols. 3,642,914, 2-15-72, Cl. 260-642.
Mitchell, Lawrence R.; and Conkling, William C., to Pennwalt Corporation. Tandem diaphragm metering pump for corrosive fluids. 3,666,379, 5-30-72, Cl. 417-395.000.
Mitchell, Luther W.: *See—*
Trigg, Harry E.; and Mitchell, Luther W., 3,707,264.
Mitchell, Maurice M., Jr.; Fisher, Harold M.; and Tomezsko, Edward S., to Atlantic Richfield Company. Method for carrying out reactions of unsaturated hydrocarbons at low temperatures. 3,655,792, 4-11-72, Cl. 260-666.
Mitchell, Maurice M., Jr.; Fisher, Harold M.; and Tomezsko, Edward S., to Atlantic Richfield Company. Method for carrying out reactions of unsaturated-hydrocarbons at low temperatures. 3,655,800, 4-11-72, Cl. 260-671.
Mitchell, Michael E., to General Electric Company. Error correcting decoder utilizing estimator functions and decision circuit for bit-by-bit decoding. 3,639,901, 2-1-72, Cl. 340-146.1.
Mitchell, Norris W.; Skraba, Frank W.; and Houston, William L., Jr., to Phillips Petroleum Company. Solvent skimming device for caustic washer. 3,681,897, 8-8-72, Cl. 55-227.000.
Mitchell, Olga M. M.; Ross, Carolyn A.; and Wallace, Robert L., Jr., to Bell Telephone Laboratories, Incorporated. Ambient noise suppressor. 3,644,674, 2-22-72, Cl. 179-1.
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Mitchell, Paul H., to Fort Smith Table & Furniture Co. Linkage assembly for folding tables and the like. 3,662,694, 5-16-72, Cl. 108-131.
Mitchell, Paul J., Jr., to SW Industries, Inc. Paper manufacturing roll construction and process. 3,639,957, 2-8-72, Cl. 29-120.
Mitchell, Paul J., Jr., to SW Industries, Inc. Process for squeezing water from paper sheet. 3,685,436, 8-22-72, Cl. 100-37.000.
Mitchell, Peter G., to Ikor, Incorporated. High power wide bandwidth pulse generator. 3,681,656, 8-1-72, Cl. 315-223.000.
Mitchell, Peter W. D.; and Blumenthal, Jack Herbert, to International Flavors & Fragrances, Inc. 7-Methyl-octadienenitriles. 3,655,722, 4-11-72, Cl. 260-465.9.
Mitchell, Philip A., to Kendall Company, The. Tetrahedral wiping pad. 3,648,319, 3-14-72, Cl. 15-118.
Mitchell, Phillip G.; Hagans, Fredrick S.; Baker, James Noel; and McClendon, Glenn R. Vehicle low tire pressure signal system. 3,646,514, 2-29-72, Cl. 340-58.
Mitchell, Reid L.; Murphy, Charles F.; and LaPolla, Edmund M., to ITT Rayonier Incorporated. Heat-sealable hydroxyethyl cellulose film and process for preparing same. 3,652,316, 3-28-72, Cl. 117-73.
Mitchell, Reid L.; Muller, Thomas E.; Stevens, Hugh D.; and Tabke, Robert S., to International Telephone and Telegraph Corporation. Process for forming hydroxyethyl cellulose fibers having high water absorption and high water retention properties. 3,670,06, 6-13-72, Cl. 264-187.
Mitchell, Richard Frank: *See—*
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Mitchell, Richard Frank, to U.S. Philips Corporation. Piezoelectric transducers having variable sensitivity between the boundaries of the piezoelectric crystal. 3,671,784, 6-20-72, Cl. 310-9.500.
Mitchell, Robert D., to Holley Carburetor Company. Valve assembly. 3,635,254, 1-18-72, Cl. 138-45.
Mitchell, Robert D., to Holley Carburetor Company. Throttle lockout arrangement. 3,682,149, 8-8-72, Cl. 123-119.00f.
Mitchell, Robert F.; and Carlson, Gordon A., to PPG Industries, Inc. Treatment of titanium tetrachloride drier residue. 3,655,344, 4-11-72, Cl. 23-299.
Mitchell, Robert K., to Battelle Development Corporation, The. Fluid pressure control. 3,672,796, 6-27-72, Cl. 418-26.000.
Mitchell, Robert M.; and Oberkircher, Frederick D., Jr., to Continental Can Company, Inc. Container and closure combination. 3,688,942, 9-5-72, Cl. 220-60.00r.
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Mitchell, Robert W., to Seneca Plastic Limited. Optical shutter system and methods related thereto. 3,653,758, 4-4-72, Cl. 352-100.
Mitchell, Robert W., to Stewart & Stevenson Services, Inc. Air start system for airplanes. 3,661,170, 5-9-72, Cl. 137-351.000.
Mitchell, Robert W. Apparatus for computing color balance characteristics and preparing improved color prints. 3,690,763, 9-12-72, Cl. 355-88.000.
Mitchell, Roy O.; and Schmid, Hermann, to General Electric Company. High speed high accuracy sample and hold circuit. 3,696,305, 10-3-72, Cl. 330-51.000.
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Mitchell, Thomas; and Grossman, Frederick; deceased (by Hinde, Doris; administrator), to Kenyon, William, & Sons Limited and Isle of Man, The. Transmission means such as spindle tapes. 3,665,773, 5-30-72, Cl. 74-231.00r.
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Mitchell, Wallace F., to Ammco Tools, Inc. Spacer assembly. 3,663,045, 5-16-72, Cl. 287-52.07.

Mitchell, Wallace F., to Ammco Tools, Inc. Method of dampening vibrations in a rotating disc and apparatus therefor. 3,691,878, 9-19-72, Cl. 82-1.00c.
Mitchell, Wallace F. Force measuring and indicating apparatus. 3,695,100, 10-3-72, Cl. 73-141.00r.
Mitchell, William, to Eco Pump Corporation. Mechanical seal for centrifugal pumps. 3,655,295, 4-11-72, Cl. 415-113.
Mitchell, William A.; and Seidel, William C., to General Foods Corporation. Heating corn syrup solids with acids to produce a dry powder. 3,657,010, 4-18-72, Cl. 127-70.
Mitchell, William A.; and Klose, Robert, to General Foods Corporation. Green coffee decaffeination using edible ester solutions. 3,682,648, 8-8-72, Cl. 99-70.000.
Mitchell, William D.; and Soboczenski, Edward J., to Du Pont de Nemours, E. I., and Company. Phenylureas as plant growth modifiers. 3,682,618, 8-8-72, Cl. 71-120.000.
Mitchell, William Eric, to Dunlop Company Limited, The. Method of mounting a pneumatic tire on a deformable rim. 3,639,964, 2-8-72, Cl. 29-159.01.
Mitchell, William S.: *See—*
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Mitchell, Winalee G.; and Mitchell, James G. Method of making slippers. 3,638,262, 2-1-72, Cl. 12-142.
Mitchener, Gary R., to MacGregor Lead Company. Stabilizer for halogen-containing resins. 3,686,135, 8-22-72, Cl. 252-400.000.
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Mitnick, Jack J. Machine for cleaning and polishing pool balls. 3,654,655, 4-11-72, Cl. 15-21.
Mito, Hiroshi, to Kabushiki Kaisha Tamron. Adapters for automatic lens system usable with different reflex cameras. 3,657,988, 4-25-72, Cl. 95-64.
Mito, Satoru; Shimotori, Kazumi; Kawai, Mituo; and Kawaguchi, Kanzi, to Tokyo Shibaura Electric Co., Ltd. Chromium base alloys having excellent corrosion resistance and workability. 3,676,110, 7-11-72, Cl. 75-134.000.
Mitofe, Stephan P.; and Will, Fritz G., to General Electric Company. Primary sodium-water battery. 3,703,415, 11-21-72, Cl. 136-83.00r.
Mitoff, Stephan P., to General Electric Company. Sodium-sulfur cell with third electrode. 3,672,994, 6-27-72, Cl. 136-6.000.
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Mitsch, Ronald A., to Minnesota Mining and Manufacturing Company. Fluorine-containing diazirines. 3,637,663, 1-25-72, Cl. 260-239.
Mitsch, Ronald A., to Minnesota Mining and Manufacturing Company. Certain fluorimino or azomethine containing compounds. 3,674,785, 7-4-72, Cl. 260-243.00r.
Mitsch, Ronald A.; and Koshar, Robert J., to Minnesota Mining and Manufacturing Company. Perfluoroalkyl vinyl sulfones. 3,700,737, 10-24-72, Cl. 260-60.00a.
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Mitsche, Roy T.; and Pollitzer, Ernest L., to Universal Oil Products Company. Hydrocarbon isomerization process. 3,632,835, 1-4-72, Cl. 260-666.
Mitsche, Roy T., to Universal Oil Products Company. Preparation of a catalytic composite comprising a combination of germanium and halogen with alumina. 3,642,660, 2-15-72, Cl. 252-442.
Mitsche, Roy T., to Universal Oil Products Company. Preparation of a crystalline aluminosilicate-alumina catalyst composition. 3,644,219, 2-22-72, Cl. 252-442.
Mitsche, Roy T.; and Michalko, Edward, to Universal Oil Products Company. Transalkylation of alkylaromatic hydrocarbons in contact with a zeolite catalyst composition. 3,677,973, 7-18-72, Cl. 252-455.00f.
Mitsengendler, Iosif Salamonovich, to Uralsky Zavod Tyazhelogo Mashinostroenia Imeni S. Ordzhonikidze. Turntable for fastening workpieces during machining. 3,693,965, 9-26-72, Cl. 269-20.000.
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Mitsubishi Acetate Company Limited: *See—*
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Mitsui, Tsuneo; Baba, Jun-Ichi; and Yamada, Ikuo, to Tokyo Denryoku Kabushiki Kaisha and Mitsubishi Denki Kabushiki Kaisha. System for computing electric power flow. 3,675,002, 7-4-72, Cl. 235-185.000.

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Mittelstadt, Robert A. Releasable binding mechanism for skis. 3,671,054, 6-20-72, Cl. 280-11.35m.

Mittelstaedt, Georg S. Peripheral suction openings in gas turbine engines. 3,645,096, 2-29-72, Cl. 60-39.66.

Mittelstaedt, Georg S. Inlets of centrifugal compressors, blowers and pumps. 3,692,420, 9-19-72, Cl. 415-62.000.

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Miura, Yotaro; and Asami, Shojiro, to Sony Corporation. Tape recorder with pivotally mounted cassette loading plate having rotable tape guiding fincers. 3,688,059, 8-29-72, Cl. 179-100.200.
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Miyoshi, Munetugu; Niwa, Kouichi; Ohnishi, Takanobu; Danno, Tamotsu; and Higaki, Koh, to Tanabe Seiyaku Co., Ltd. R-Glycyl-L-tryptophyl-L-methionyl-glycine amides and preparation thereof. 3,652,531, 3-28-72, Cl. 260-112.5.
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Mize, Erbie G.; and Brock, James D., to CMI Corporation. Asphalt plant erector. 3,638,911, 2-1-72, Cl. 254-89.
Mize, Jack P., to Texas Instruments, Incorporated. Method of passivating semiconductors. 3,689,243, 9-5-72, Cl. 65-42.000.
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Mizuhara, Howard, to Western Gold & Platinum Company. Composite brazing alloy of titanium, copper and nickel. 3,652,237, 3-28-72, Cl. 29-198.
Mizui, Seiichiro; and Takishima, Yoshiyuki, to Canon Kabushiki Kaisha. Electric shutter blade actuating device for a photographing apparatus. 3,687,042, 8-29-72, Cl. 95-53.0ea.
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Mizukoshi, Yasumasa; and Yanagimoto, Masato, to Nippon Seiko Kabushiki Kaisha. Variable gear ratio steering gearing. 3,661,031, 5-9-72, Cl. 74-462.
Mizuma, Katsuhisa, to Koushuha-Netsuren Kabushiki Kaisha. Steel wire cage wire for chemically prestressed concrete pipe. 3,654,968, 4-11-72, Cl. 138-176.
Mizuma, Noriaki; and Yokota, Yuzo, to FMC Corporation. Method of printing textiles using a printing paste containing β-1,4 glucan. 3,679,352, 7-25-72, Cl. 8-62.000.
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Mizuno, Miyoji. Tooth-cleaning tool. 3,640,291, 2-8-72, Cl. 132-84.
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Mizunuma, Mamoru, to Rigaku Denki Company, Limited. X-ray diffraction apparatus for measuring stress in a specimen. 3,639,760, 2-1-72, Cl. 250-51.5.
Mizunuma, Tsutomu; and Azumi, Tsukuru, to Denki Kagaku Kogyo Kabushiki Kaisha. Cement additive comprising calcium sulfo-aluminate, an organic adhesive, a foaming agent, and a dispersing agent. 3,663,287, 5-16-72, Cl. 106-315.000.
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Mizushima, Toshio: *See—*
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Mizutani, Takashi; Anzai, Masao; and Ebihara, Akio, to Toppan Printing Company Limited. Multicolored heat transfer sheet and processes for heat transfer of multicolored ink impressions. 3,647,503, 3-7-72, Cl. 117-36.4.
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Mizutani, Yukio; and Matsuoka, Seishiro, to Tokuyama Soda Kabushiki Kaisha. Process for preparing polymers from ethylenically unsaturated glycidyl monomers. 3,665,053, 5-23-72, Cl. 260-836.
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Mizzoni, Renat Herbert; and Blatter, Herbert Morton, to Ciba-Geigy Corporation. Certain-3-pyridine-sulfonamide derivatives. 3,674,794, 7-4-72, Cl. 260-294.80f.
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Mohan, Arthur Gaudens; and Madison, Richard Keith, to American Cyanamid Company. Process for quinolines and indoles ring closure of nitro compounds). 3,658,823, 4-25-72, Cl. 260-283.
Mohan, Arthur Gaudens; and Madison, Richard Keith. Process for indoles (ring closure of nitro compounds). 3,682,901, 8-8-72, Cl. 260-240.00d.
Mohan, William L.; and Willits, Samuel P., to Spartanics, Ltd. Random oriented decoder for label decoding. 3,643,068, 2-15-72, Cl. 235-61.11.
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Mohl, Wilhelm; and Kruger, Heinz, to Fa. Otto Thamert, Textil-u. Kunstastoff GmbH & Co., KG. Artificial breast. 3,663,968, 5-23-72, Cl. 3-36.000.
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Mohr, Bernhard; Engel, Heinz; and Heijnis, James Watt Ijsbrand, to Akzona Incorporated. Godet for yarn transport and stretching apparatus. 3,698,614, 10-17-72, Cl. 226-193.000.
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Mohri, Yohichi, to Nissan Motor Company, Limited. Line pressure regulator valve. 3,699,994, 10-24-72, Cl. 137-115.000.
Mohri, Yohichi, to Nissan Motor Company, Limited. Hydraulic servo valve. 3,702,621, 11-14-72, Cl. 137-85.000.
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Mohrman, Robert K.; Kifer, Paul E.; and Oborsh, Edward V., to Ralston Purina Company. Cat food with hexamic acid flavorant. 3,679,429, 7-25-72, Cl. 99-2.000.
Mohwinkel, Franz, to Plasco Limited Company. Process of preserving potatoes in closed packages. 3,658,559, 4-25-72, Cl. 99-171.000.
Moilanen, Veikko Mauri, to Enso-Gutzeit Osakeyhtio. Method of producing a laminate for use as a layer in a corrugated board. 3,673,031, 6-27-72, Cl. 156-206.
Moir, Kenneth Wilfred. Apparatus for the analysis of fibrous constituents in feeds. 3,685,970, 8-22-72, Cl. 23-253.00r.
Moir, Ralph W., to United States of America, Atomic Energy Commission. Apparatus for the conversion of high temperature plasma energy into electrical energy. 3,668,065, 6-6-72, Cl. 176-3.000.
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Moisdon, R. Francois. Vacuum pumping unit. 3,697,196, 10-10-72, Cl. 417-211.000.
Moisescu, Gheorghe; Stoica, Valer; Wolf, Carol; and Spataru, Nicolae, to Institutul de Cercetari Si Proiectari Alimentare. Process and plant for fast conditioning or thermal treatment of bread cereals, especially wheat. 3,640,206, 2-8-72, Cl. 99-237.
Moisio, Tauno V.; and Kreula, Matti S., to Valio Meiyierien Keskusosuusliike. Measuring method for analyzing material containing fat and water. 3,691,455, 9-12-72, Cl. 324-.50r.
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Mol, Edward K.; and Stahl, Marvin D., to Sparks, A. J., & Company, mesne. Abrasion-resistant conveyor belt. 3,661,245, 5-9-72, Cl. 198-193.
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Molinare, Anthony W., to Dutton-Lainson Company. Hub cap construction. 3,649,080, 3-14-72, Cl. 301-108.
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Moll, Hans H.; and Hundt, Werner, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Apparatus for automatically steering powered vehicles. 3,638,751, 2-1-72, Cl. 180-98.

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Moller, Aage; and Straarup, Orla, to Aktieselskabet Niro Atomizer. Atomizer wheel with wear-resistant, sintered bushings. 3,640,467, 2-8-72, Cl. 239-224.

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Moller, Paul S., to Discojet Corporation. Exhaust muffler and spark arrestor. 3,672,773, 6-27-72, Cl. 181-58.000.

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Mollere, John C., to Western Geophysical Company of America. Seismic gas exploder apparatus. 3,669,213, 6-13-72, Cl. 181-.5mc.

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Monaco, Luigi. Tin base alloy containing aluminum, zinc and copper. 3,650,735, 3-21-72, Cl. 75-175.
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Monaghan, Frank, to M & H Plastics, Inc. Method and apparatus for tubular articles. 3,700,529, 10-24-72, Cl. 156-501.000.
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Monaghan, Stephen R.; and Birch, James D., to United States of America, Navy. Variable axial ratio compensator. 3,656,070, 4-11-72, Cl. 333-21.
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Monpetit, Louis A., to Societe des Procedes Modernes d'Injection Sopromi. Electronic control system for internal combustion engine injectors. 3,645,240, 2-29-72, Cl. 123-32.

Monpetit, Louis A., to Societe des Procedes Modernes d'Injection Sopromi. Method of regulation of the duration of repeated rectangular electric signal and devices for the practical application of the said method. 3,651,343, 3-21-72, Cl. 307-265.
Monpetit, Louis A., to Societe des Procedes Modernes d'Injection Sopromi. Electronic injection control means for internal combustion engines. 3,651,792, 3-28-72, Cl. 123-32.
Monpetit, Louis A., to Societe des Procedes Modernes d'Injection Sopromi. Electronic control system for the injectors of internal engines. 3,653,365, 4-4-72, Cl. 123-32.
Monpetit, Louis A., to Societe des Procedes Modernes d'Injection Sopromi. Individual correcting system for the electronically controlled electromagnetic injectors in internal combustion engines. 3,659,563, 5-2-72, Cl. 123-32.0ea.
Monpetit, Louis A.; and Advenier, Pierre M., to Societe des Procedes Modernes d'Injection Sopromi. System controlling the speedy energization of electromagnets, chiefly those controlling the opening of electromagnetic injectors in internal combustion engins. 3,665,901, 5-30-72, Cl. 123-32.0ea.
Monpetit, Louis A., to Societe des Procedes Modernes d'Injection Sompromi. Electronic control system for internal combustion engine injectors. 3,669,080, 6-13-72, Cl. 123-32.
Monpetit, Louis A., to Societe des Procedes Modernes d'Injection Modernes SOPROMI. Electronically controlled injecting arrangements feeding fuel under constant pressure into internal combustion engines. 3,669,081, 6-13-72, Cl. 123-32.
Monpetit, Louis A., to Societe des Procedes Modernes d'Injection Sopromi. Electronic injection-controlling system for internal combustion engines. 3,672,345, 6-27-72, Cl. 123-32.0ea.
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Montgomery, Eldwin C., to Libbey-Owens-Ford Company. Bath temperature control in float glass apparatus. 3,637,364, 1-25-72, Cl. 65-65.

Montgomery, Eldwin C., to Libbey-Owens-Ford Company. Movable restrictor tiles in float glass apparatus and method of regulating glass ribbon. 3,664,820, 5-23-72, Cl. 65-99.

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Montgomery, William T. S., Jr., to Montgomery Industries International, Inc. Material feeding apparatus. 3,703,231, 11-21-72, Cl. 198-165.000.

Montgomery, William W.; and Hood, Eugene B. Laryngeal keel. 3,707,150, 12-26-72, Cl. 128-334.00r.

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Monti, Giancarlo, to Siai-Marchetti S.p.A. Helicopter rotor construction. 3,640,643, 2-8-72, Cl. 416-136.

Monti, Giancarlo, to Siai-Marchetti S.p.A. Helicopter rotor blade. 3,674,379, 7-4-72, Cl. 416-226.000.

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Monti, Renzo J., to United States of America, Army. Adjustable, quickly releasable webbing connector. 3,676,901, 7-18-72, Cl. 24-191.000.

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Moodie, Donald E., to Polaroid Corporation. Switch programming device with sequentially actuated switches. 3,674,965, 7-4-72, Cl. 200-153.00r.
Moodie, Donald E., to Polaroid Corporation. Photographic apparatus including removable validation plate. 3,678,818, 7-25-72, Cl. 95-1.100.
Moody, Anthony Gifford; and Symcox, Robert Owen, to Imperial Chemical Industries Limited. Acetoacetate of 2-hydroxymethyl-5-norbornene. 3,670,011, 6-13-72, Cl. 260-483.000.
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Moody, Roy A.; Sullivan, John F.; and Thayer, Arlie J., to Panduit Corporation. Connector clip. 3,668,744, 6-13-72, Cl. 24-73.0pb.
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Hague, Robert Z.; Laucks, Howard H.; and Mastropole, Alfred J., 3,678,801.
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Keith, Carl D.; Masologites, George P.; and Mooi, John, 3,660,271.
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Mookherjee, Braja D., to International Flavors & Fragrances Inc. Hexahydro-1,4,9,9-tetramethyl-4,7-methanoazulenones. 3,679,750, 7-25-72, Cl. 260-586.00a.
Mookherjee, Braja D.; and Taylor, William I., to International Flavors & Fragrances Inc. Preparation of ambrettolide. 3,681,395, 8-1-72, Cl. 260-343.000.
Mookherjee, Braja D.; and Taylor, William I., to International Flavors & Fragrances Inc. Preparation of cyclohexadecanolide. 3,681,396, 8-1-72, Cl. 260-343.000.
Mookherjee, Braja D.; and Betts, Muus G. J., to International Flavors & Fragrances, Inc. Oxycyclic pyrazines and process for preparing same. 3,684,809, 8-15-72, Cl. 260-250.00r.
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Moon, Charles L., to White Motor Corporation. Fuel injection system. 3,638,629, 2-1-72, Cl. 123-139.6.
Moon, Charles L., to White Motor Corporation. Engine coolant filter. 3,682,308, 8-8-72, Cl. 210-136.000.
Moon, Clive D.; and Neumann, Robert K. F., to Phillips Petroleum Company. Hot-melt adhesives of polyolefins containing oxime compounds or esters thereof. 3,658,755, 4-25-72, Cl. 260-45.9.
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Moore, Alexander G. Oil vaporizer. 3,649,230, 3-14-72, Cl. 48-102.
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Moore, Alvin G., to Hercules Incorporated. Fluid jet deflection type instrument with jet buoyancy control. 3,631,729, 1-4-72, Cl. 73-516.
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Moore, Amos J., to Budd Company, The. Method of finishing a die. 3,636,797, 1-25-72, Cl. 76-107.
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Moore, Arthur Ivan Walter; Porter, John Howard; Vearncombe, Richard Frank; and Reiher, Edward Karl. Face milling tool. 3,670,380, 6-20-72, Cl. 29-105.000.
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Moore, Buell, to Esquire, Inc. Light fixture. 3,666,934, 5-30-72, Cl. 240-3.000.
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Moore, Carl; Gibbs, Dale S.; and Vanderhoff, John W., to Dow Chemical Company, The. Polymer film substrate with vinylidene chloride base coating and wax antisticking top coating. 3,639,148, 2-1-72, Cl. 117-76.
Moore, Carl; Louch, James B.; and Stainfield, Russell L., to Dow Chemical Company, The. Method of preparing high solids latexes of olefin polymers. 3,644,258, 2-22-72, Cl. 260-29.6.
Moore, Carl, to Dow Chemical Company, The. Anionic acrylate latexes that possess sensitivity to alkalinity. 3,677,991, 7-18-72, Cl. 260-29.6.
Moore, Carl, to Dow Chemical Company, The. Carpet backsizing with latexes of acidic olefin copolymers. 3,679,469, 7-25-72, Cl. 117-161.0uz.
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Moore, Charles H. Connection assembly for fluid pressure lines. 3,690,702, 9-12-72, Cl. 285-156.000.
Moore, Charles H., Sr. Transition members. 3,662,583, 5-16-72, Cl. 72-370.
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Moore, Dan W. Hydraulically controlled flat bed trailer. 3,633,776, 1-11-72, Cl. 214-512.
Moore, Dana W., to Honeywell Inc. Magnetic core memory providing both non-alterable and electrically alterable locations. 3,681,767, 8-1-72, Cl. 340-174.00m.
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Moore, Edgar E.; and Foster, William A., to Dow Chemical Company, The. Drainage improvement in paper pulp suspensions containing lignin residues. 3,706,629, 12-19-72, Cl. 162-168.000.
Moore, Emanuel M., to M & N Developers, Incorporated. Security attachment for chain type door lock. 3,698,751, 10-17-72, Cl. 292-264.000.
Moore, Eric Desmond. Practice golf club. 3,677,553, 7-18-72, Cl. 273-186.00a.
Moore, Ernest Beatty: *See—*
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Zimmerman, Robert L.; Dennis, Kent S.; and Moore, Eugene R., 3,678,016.
Moore, Eugene R.; Bussey, Marlin G.; and Parish, Hal G., to Dow Chemical Company, The. Roofing structure and method. 3,672,951, 6-27-72, Cl. 161-160.000.
Moore, Eugene R.; and Park, William R. R., to Dow Chemical Company, The. Method for making hydrazine derivatives of copolymers of vinyl aromatic compounds and α~β-unsaturated dicarboxylic acids or anhydrides. 3,679,640, 7-25-72, Cl. 260-78.50t.
Moore, Fletcher L., to United States of America, Atomic Energy Commission. Separation and recovery of americium from curium and other elements. 3,687,641, 8-29-72, Cl. 423-6.000.
Moore, Francis C. Method of laminating plastic foam. 3,669,786, 6-13-72, Cl. 156-163.000.
Moore, Francis C.; and Perkinson, Leon A., to Moore-Perk Corporation. Surgical sponge or bandage. 3,678,933, 7-25-72, Cl. 128-296.000.
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Moore, George A. Method of pressure cooking foods. 3,635,722, 1-18-72, Cl. 99-1.
Moore, George A. Breading machine. 3,696,778, 10-10-72, Cl. 118-9.000.
Moore, George E.; and Tomlinson, Lee H., to General Electric Company. Burner-flame arrester for burning off-gas from a boiling water reactor power plant. 3,660,041, 5-2-72, Cl. 23-262.
Moore, George E., to General Electric Company. Burner-cooler system for generating exothermic gas. 3,672,839, 6-27-72, Cl. 23-281.000.
Moore, George E., to Watson Manufacturing Company, Inc. Teller mechanism. 3,702,101, 11-7-72, Cl. 109-19.000.
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Moore, George Edward, Jr.: *See—*
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Moore, George G.: *See—*
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Moore, George G., to Motorola, Inc. Selective calling system providing an increased number of calling codes or auxiliary information transfer. 3,702,440, 11-7-72, Cl. 325-55.000.
Moore, George G. I.: *See—*
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Moore, George G. I.; and Conway, Alvin C., to Minnesota Mining and Manufacturing Company. Fluoroalkanesulfonamides. 3,637,845, 1-25-72, Cl. 260-556.
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Moore, George G. I.; Harrington, Joseph Kenneth; and Gerster, John F., to Minnesota Mining and Manufacturing Company. Substituted pyridine derivatives. 3,686,192, 8-22-72, Cl. 260-294.80f.
Moore, George G. I.; and Harrington, Joseph Kenneth, to Riker Laboratories, Inc. Trifluoromethanesulfonamido-substituted desoxybenzoins. 3,689,553, 9-5-72, Cl. 260-556.00f.
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Moore, George V.: *See—*
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Moore, Glenn E.; Wilson, Fred A.; and Wood, Chester W., to Dover Corporation. Automatic shut-off dispensing nozzle venturi. 3,646,974, 3-7-72, Cl. 141-392.
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Moore, Harold R.; and Fischer, Heinz G. Methods of manufacturing electrical insulating structures. 3,673,297, 6-27-72, Cl. 264-138.000.
Moore, Harold R.; Robin, Harral T.; and Wallace, William B., to Westinghouse Electric Corporation. Electrical inductive apparatus having serially interconnected coils. 3,688,233, 8-29-72, Cl. 336-183.000.
Moore, Harrington. Birdfeeder. 3,648,661, 3-14-72, Cl. 119-53.

Moore, Harrington, to Moore, George W., Inc. Locking set screw. 3,664,400, 5-23-72, Cl. 151-22.
Moore, Howard. Tool having retractable and removable centering sleeve. 3,633,640, 1-11-72, Cl. 145-51.
Moore, Howard D.; Padmore, Ernest L.; and Whittle, John, to Shell Oil Company. Semi-fluid lubricant compositions. 3,663,437, 5-16-72, Cl. 252-28.
Moore, Howard V., to Pacific Valves, Inc. Ball valve. 3,669,406, 6-13-72, Cl. 251-315.
Moore, Hugh C. Test tube system for separating blood into serum and red cells. 3,701,434, 10-31-72, Cl. 210-477.000.
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Moore, James, to Imperial Chemical Industries Limited. Coating compositions comprising the reaction product of an organic polyisocyanate modified with a monohydric alcohol and an oil modified rosinous material. 3,666,696, 5-30-72, Cl. 260-18.0tn.
Moore, James A.: *See—*
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Moore, James F., Jr., to Moore & Hansen Mfg. Co. Bingo game boards. 3,663,020, 5-16-72, Cl. 273-135.00b.
Moore, Jesse C., 49% to Kuhlman, Norman H. Apparatus for forming mold material. 3,649,146, 3-14-72, Cl. 425-162.
Moore, John C., to Dow Chemical Company, The. Method for analysis of large polymer molecules. 3,649,200, 3-14-72, Cl. 23-230.
Moore, John R.; Noack, William L.; and Roser, Robert A., to Avery Products Corporation. Label dispensing system. 3,696,967, 10-10-72, Cl. 221-73.000.
Moore, John Russell Crompton. Suspension systems. 3,704,740, 12-5-72, Cl. 152-75.000.
Moore, Joseph B.; and Athey, Roy L., to United Aircraft Corporation. Production of fine grained ingots for the advanced superalloys. 3,669,180, 6-13-72, Cl. 164-122.000.
Moore, Joseph B.; and Ather, Roy L., to United Aircraft Corporation. Apparatus for forging. 3,698,219, 10-17-72, Cl. 72-38.000.
Moore, Joseph E., to Chevron Research Company. Polyhaloalkylpolythioalkyl sulfite esters. 3,632,622, 1-4-72, Cl. 260-456.
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Moore, Joseph G.: *See—*
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Moore, Junius T., Jr., to Moore Company, The. Indicia plate with means for aligning same with a frame member. 3,673,719, 7-4-72, Cl. 40-20.00r.
Moore, Junius T., Jr., to Moore Company, The. Assembly for structural framing unit. 3,698,676, 10-17-72, Cl. 248-317.000.
Moore, Lawrence A., to Beloit Corporation. Apparatus for forming containers by molding. 3,661,489, 5-9-72, Cl. 18-4.
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Moore, Leslie D., to Nalco Chemical Company. Catalytic conversion of nitriles to amides. 3,670,020, 6-13-72, Cl. 260-561.00n.
Moore, Lester C.: *See—*
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Moore, Lester P. Gas liquid separator. 3,641,745, 2-15-72, Cl. 55-345.
Moore, Lloyd William. Battery cutoff switch. 3,683,143, 8-8-72, Cl. 200-162.000.
Moore, Lowell B.; Keating, Raymond J.; and Underwood, Warren, to Kartridg Pak Co., The. Vacuum bagging machine. 3,700,387, 10-24-72, Cl. 53-77.000.
Moore, Paul A.; and Boyles, Homer T., to Halliburton Company. Regulator controlling volume of one or more streams of fluid. 3,638,681, 2-1-72, Cl. 137-607.
Moore, Peter G.: *See—*
Strain, William H.; and Moore, Peter G., 3,684,295.
Moore, Peter N.; and Pierce, Leo F. Splash guard for trucks. 3,675,943, 7-11-72, Cl. 280-154.50r.
Moore, Peter N.; and Pierce, Leo F. Mud flap and mounting means. 3,700,260, 10-24-72, Cl. 280-154.50r.
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Moore, R. D., to R-J-R, Corporation. Blood product for fish bait. 3,672,910, 6-27-72, Cl. 99-3.000.
Moore, Ralph G. D., to GAF Corporation. Solvent soluble diazonium metal salts and diazotype material therefor. 3,666,474, 5-30-72, Cl. 96-91.
Moore, Raymond D. Roasting rack. 3,665,843, 5-30-72, Cl. 99-419.
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Moore, Raymond H., to Bunker Hill Company, The. Sorbate extraction of metallic values from aqueous leach solutions. 3,682,589, 8-8-72, Cl. 23-125.000.
Moore, Richard D.: *See—*
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Moore, Richard E. Method of making acrylic-polycarbonate laminate. 3,681,167, 8-1-72, Cl. 156-311.000.
Moore, Richard E. Pressure polishing of extruded polycarbonate or polysulfone sheet. 3,681,483, 8-1-72, Cl. 264-1.000.
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Moore, Robert David, Jr. Heat transfer apparatus with improved heat transfer surface. 3,661,202, 5-9-72, Cl. 165-105.000.
Moore, Robert David, Jr. Segmented heat pipe. 3,666,005, 5-30-72, Cl. 165-105.
Moore, Robert David, Jr. Heat link, a heat transfer device with isolated fluid flow paths. 3,677,336, 7-18-72, Cl. 165-105.000.
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Moore, Robert E.; and Janoski, Edward J., to Sun Oil Company. Highly fluorinated alkyladamantanes. 3,641,167, 2-8-72, Cl. 260-648.
Moore, Robert E., to Sun Oil Company. Organic di-isocyanates of alkyladamantanes. 3,646,095, 2-29-72, Cl. 260-453.
Moore, Robert E., to Sun Oil Company. Conversion of adamantane hydrocarbons to monools. 3,646,224, 2-29-72, Cl. 260-617.
Moore, Robert E., to Sun Oil Company. Reaction of paraffins with adamantane compounds. 3,646,233, 2-29-72, Cl. 260-666.
Moore, Robert E., to Sun Oil Company. Reaction of naphthene hydrocarbons with adamantane compounds. 3,646,234, 2-29-72, Cl. 260-666.
Moore, Robert E., to Sun Oil Company. Dialkylation of haloadamantanes. 3,655,782, 4-11-72, Cl. 260-648.
Moore, Robert E., to Sun Oil Company. Haloadamantanes. 3,666,806, 5-30-72, Cl. 260-617.00f.
Moore, Robert E., to Sun Oil Company. Isomerization of cyclic hydrocarbons. 3,671,598, 6-20-72, Cl. 260-666.00m.
Moore, Robert E., to Sun Research and Development Company. Oxidative dehydrogenation of multicyclic hydrocarbons. 3,671,599, 6-20-72, Cl. 260-666.0py.
Moore, Robert E., to Sun Research and Development Company. Ethylation of adamantane nucleus with BF etherate. 3,671,600, 6-20-72, Cl. 260-666.00m.
Moore, Robert E., to Sun Research and Development Company. Preparation of aliphatic olefins from saturated hydrocarbons. 3,707,576, 12-26-72, Cl. 260-666.00a.
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Jimerson, Bruce D.; and Moore, Robert H., 3,687,817.
Moore, Robert L. Games with changeable playing pieces. 3,642,286, 2-15-72, Cl. 273-134.
Moore, Robert M.; Lauterbach, Norman H.; and Armstrong, David P., to Kermath Manufacturing Corporation. X-ray examination chair. 3,655,968, 4-11-72, Cl. 250-50.
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Moore, Stephen G. Retracting bed mechanism. 3,703,735, 11-28-72, Cl. 5147.000.
Moore, Ted R., to Cities Service Oil Company. Method for stimulating hydrocarbon-bearing formations. 3,674,089, 7-4-72, Cl. 166-245.000.
Moore, Thomas. Excessive motor load indicator and voltage cut-out device. 3,691,445, 9-12-72, Cl. 318-472.000.
Moore, Thomas. Motor overload protector and voltage cut-out device. 3,700,964, 10-24-72, Cl. 317-13.
Moore, Thomas. Automatic transmission fluid replenishment means and level indicator. 3,703,716, 11-21-72, Cl. 340-244.00b.
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Moore, Walter E. C., to Virginia Polytechnic Institute Educational Foundation. Apparatus for transferring anaerobic bacteria. 3,666,629, 5-30-72, Cl. 195-127.
Moore, Walter J.; Cusick, Richard T.; and Byrne, Michael D., Jr. Random access pressure multiplexer valving arrangement and system. 3,645,141, 2-29-72, Cl. 73-420.
Moore, Werton D., to Ross, Marty and Henderson, Danny. Swimming pool cleaning device. 3,665,942, 5-30-72, Cl. 134-167.00r.
Moore, Werton Dewitt, to Delta Manufacturing and Engineering Corporation. Vehicle wheel washing apparatus. 3,670,743, 6-20-72, Cl. 134-45.000.
Moore, Wesley W.; and Redwine, Fletcher H., to United States Steel Corporation. Drilling rig with shiftable crown blocks. 3,658,298, 4-25-72, Cl. 254-190.
Moore, William C. Extensible universally positionable device. 3,643,084, 2-15-72, Cl. 240-10.67.
Moore, William C.; and Boos, Alfred J., to Insulating Fabricator, Inc. Receptacle and improved floating platform therefor. 3,663,078, 5-16-72, Cl. 312-71.
Moore, William C.; and Pilgrim, William S., to Welch Allyn, Inc. Otoscope construction. 3,698,387, 10-17-72, Cl. 128-9.
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Moore, William M. Angle trisector. 3,693,261, 9-26-72, Cl. 33-1.0ap.
Moore, William P.; MacGregor, Rob R.; and Sierichs, William C., to Allied Chemical Corporation. Method of separating magnesium from wet-process phosphoric acid. 3,642,439, 2-15-72, Cl. 23-165.
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Moore, Willis D. Automatically adjustable rear view mirror. 3,664,729, 5-23-72, Cl. 350-281.
Moore-Iem, Inc.: *See—*
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Mooreman, Michel. Enzymatic products which optimise the viscosity of mucuses and their applications. 3,683,069, 8-8-72, Cl. 424-94.000.
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Moores, Ralph G.; and Teitelbaum, Charles L., to General Foods Corporation. Production of solid flavoring compositions. 3,644,127, 2-22-72, Cl. 99-140.
Moores, Robert G., Jr., to Black and Decker Manufacturing Company, The. Depth gauge for tool. 3,633,682, 1-11-72, Cl. 173-46.
Moores, Robert G., Jr., to Black and Decker Manufacturing Company, The. Tool bit retainer. 3,633,684, 1-11-72, Cl. 173-104.
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Moran, Charles E., to Chevron Research Company. Asphalt compositions containing polyamide. 3,660,126, 5-2-72, Cl. 106-279.
Moran, David Martin; and Croucher, Jack Vivian, to Beecham Group Limited. Veterinary treatment. 3,639,560, 2-1-72, Cl. 424-22.
Moran, Jack; Stevenson, Boyd; and Reynolds, William A., to M-R-S, Inc. Closing plate for electric meter housing. 3,683,102, 8-8-72, Cl. 174-50.000.
Moran, James G. Bottle cap and cover. 3,655,102, 4-11-72, Cl. 222-484.
Moran, James G. Inflatable and illuminable figure. 3,672,083, 6-27-72, Cl. 40-126.00b.
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Moran, Raymond Michael, Jr., to Ciba Corporation. Compositions comprising a 1,2-epoxy resin and a nitrogen containing heterocyclic compound. 3,634,323, 1-11-72, Cl. 260-47.
Moran, Raymond Michael, Jr.; and Blekicki, Henry Thomas, to Ciba-Geigy Corporation. Products of acid anhydrides and polyamines used as latent hardeners for epoxy resins. 3,639,657, 2-1-72, Cl. 260-47.

Moran, Robert J.; and Marsilia, Louis P., to Cardinal Instrument Corporation. Dial thermometer. 3,680,385, 8-1-72, Cl. 73-368.700.

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Moran, William F.; and Kyrias, Lucian C., to Beatrice Foods Co., mesne. Article coated with intumescent undercoat of a synthetic resin, inorganic foam forming agent and carbon forming agent, and water-insoluble organic solvent based resin overcoat. 3,663,27, 5-16-72, Cl. 117-76.00p.

Morancy, William F., to Lawson Products, Inc. Method of making non-run spandex fabric. 3,682,731, 8-8-72, Cl. 156-148.000.

Morand, Gilles. Hair-slide. 3,698,403, 10-17-72, Cl. 132-46.00r.

Morand, Gilles; and Giraudon, Marc. Hair-slide. 3,704,717, 12-5-72, Cl. 132-46.00a.

Morand, Jean-Pierre: *See—*
Nief, Guy; and Morand, Jean-Pierre, 3,673,406.

Morando, Jorge A.: *See—*
Baniadam, Mahmood; and Morando, Jorge A., 3,706,318.

Morane, Bruno; Paoletti, Charles; Merrien, Louis; Maurelli, Manlio; and Sathicq, Robert, to L'Oreal. Method and apparatus for packaging products which are to be stored separately but dispensed simultaneously. 3,635,261, 1-18-72, Cl. 141-3.

Morane, Bruno; Paoletti, Charles; Merrien, Louis; Sathicq, Robert; and Maurelli, Manlio, to L'Oreal. Method for filling a container with a fluid under pressure. 3,659,395, 5-2-72, Cl. 53-36.

Morane, Bruno; Maurelli, Manlio; Paoletti, Charles; Merrien, Louis; and Sathicq, Robert, to L'Oreal. Method and apparatus for separately packaging two liquids which are to be simultaneously dispensed. 3,667,652, 6-6-72, Cl. 222-145.000.

Morane, Bruno; Paoletti, Charles; and Terrasse, Gilles, to L'Oreal. Apparatus for dispensing two fluids simultaneously. 3,675,821, 7-11-72, Cl. 222-80.000.

Morane, Bruno; Paoletti, Charles; and Hardoiin, Yves, to L'Oreal. Device for storing two liquids separately and dispensing them simultaneously under pressure. 3,698,453, 10-17-72, Cl. 141-349.000.

Morane, Bruno P., to L'Oreal. Sanitary napkin. 3,669,114, 6-13-72, Cl. 128-290.

Morane, Bruno P., to L'Oreal. Valve for simultaneously dispensing a plurality of pressurized fluids. 3,674,180, 7-4-72, Cl. 222-145.000.

Morane, Bruno P., to L'Oreal. Self cleaning valve. 3,675,825, 7-11-72, Cl. 222-148.000.

Moransais, Charles, to Zafira France. Brush for cleaning gramophone records. 3,659,952, 5-2-72, Cl. 401-196.

Morat, Franz, to Morat, Franz, G.m.b.H. Synchronized program control apparatus for a knitting machine. 3,680,331, 8-1-72, Cl. 66-50.00r.

Morat, Franz, G.m.b.H.: *See—*
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Morat, Franz, G.m.b.H., Firma: *See—*
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Gottschall, Gernot, 3,696,982.
Schunack, Ingenieur Johannes, 3,643,010.

Moratelli, Patrick A., Jr.: *See—*
Goelzer, William C.; Moratelli, Patrick A., Jr.; Griffith, Albert M., III; Myers, David D.; Opitz, Herman E.; and Procopio, John J., 3,684,469.

Moratschek, Frank G. Machine for making batches of mortar. 3,697,054, 10-10-72, Cl. 259-154.000.

Moravec, Terrence D., to Universal Oil Products Company. Self-supporting screen deck. 3,653,845, 4-4-72, Cl. 23-288.

Moravec, Vincent J., Jr.; and Meerbott, William K. Regeneration of platinum-rhenium reforming catalyst. 3,654,142, 4-4-72, Cl. 208-140.

Moravick, Donald W.; and Levy, Leon M. Jigsaw puzzle. 3,704,892, 12-5-72, Cl. 273-157.00r.

Moravsky, Vladislav Eduardovich: *See—*
Mescheryak, Sergei Nikolaevich; Stemkovsky, Evgeny Petrovich; Pentegov, Igor Vladimirovich; Vorona, David Semenovich; and Moravsky, Vladislav Eduardovich, 3,644,699.

Moravsky, Vladislav Eduardovich; Vorona, David Solomonovich; and Shinkarenko, Boris Pavlovich. Apparatus for electric contact spot welding, preferably of small-size parts. 3,671,708, 6-20-72, Cl. 219-78.000.

Moraw, Roland; Munder, Johannes; and Lohaus, Gerhard, to Keuffel & Esser Company, mesne. Diazotype material using alpha-pyrone ultraviolet radiation absorbers. 3,632,344, 1-4-72, Cl. 96-91.

Moraw, Roland, to Kalle Aktiengesellschaft. Copying method and apparatus. 3,659,935, 5-2-72, Cl. 355-1.

Moraw, Roland; and Arneth, Reinhold, to Kalle Aktiengesellschaft. Copying apparatus. 3,705,768, 12-12-72, Cl. 355-8.000.

Morawetz, Peter L.; and Tinklenberg, Meryl W., to Buckbee-Mears Company. Electrodeposition systems. 3,649,509, 3-14-72, Cl. 204-238.

Morawski, London T.; and Parker, John J. Multi-jaw drawbar type chuck. 3,633,929, 1-11-72, Cl. 279-1.

Morawski, London T.; and Parker, John J., said Parker assor. to Parker, John J., Living Trust, The. Work holder for splined workpieces. 3,701,539, 10-31-72, Cl. 279-1.00g.

Morawski, London T.; and Parker, John J., said Parker assor. to Parker, John J.; as Trustee under Parker, John J., Living Trust, The. Multi-jaw chuck. 3,707,292, 12-26-72, Cl. 279-110.000.

Morawski, London T.; and Parker, John J., said Parker assor. to Parker, John J., as Trustee under Parker, John J., Living Trust, The. Multi-jaw chuck. 3,707,293, 12-26-72, Cl. 279-110.000.

Morawski, London T.; and Parker, John J., said Parker assor. to Parker, John J.; as Trustee under Parker, John J., Living Trust, The. Multi-jaw chuck. 3,707.294, 12-26-72, Cl. 279-110.000.

Moray, Forest J. Adjustable valve stem oil seals for old and new internal combustion engines. 3,699,942, 10-24-72, Cl. 123-188.00p.

Morbark Industries, Inc.: *See—*
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Morby, John Edward, to Alcan Research and Development, Limited. Method of jointing electrical cables and tool therefor. 3,644,989, 2-29-72, Cl. 29-628.

Morcaldi D', Rosario Forlano. Loop fabric structure. 3,673,915, 7-4-72, Cl. 87-12.000.

Morchand, Charles A., to Data-Plex Systems, Inc. System for transmitting two classes of superimposed information. 3,637,926, 1-25-72, Cl. 178-5.6.

Morchand, Charles A.; and Dudley, Don J., to Data-Plex Systems, Inc. Monochannel audio teaching device. 3,637,940, 1-25-72, Cl. 179-15.

Morchen, Wolfgang; Hucho, Wolf Heinrich; and Janssen, Lutz Joachim, to Volkswagenwerk Aktiengesellschaft. Fresh air device for power vehicles. 3,638,551, 2-1-72, Cl. 98-2.16.

Morck, Charles W., Jr., to Selas Corporation of America. Industrial burner. 3,692,460, 9-19-72, Cl. 431-348.000.

Morcom, Richard James, to Monsanto Company. Method for treating the flanges of containers. 3,633,322, 1-11-72, Cl. 51-323.

Mordan, William J., to Hewlett-Packard Company. Sweep hold-off circuit. 3,706,904, 12-19-72, Cl. 315-19.000.

Morden, Russell L.; and Perkins, Ralph W., to General Motors Corporation. Torque responsive transmission mechanism. 3,704,637, 12-5-72, Cl. 74-751.000.

Morderosian, Lawrence D. Identification structure. 3,643,358, 2-22-72, Cl. 40-2.2.

Mordig, Eberhard: *See—*
Rother, Wolfgang; Mordig, Eberhard; Wenzel, Erwin; Cronert, Dieter; Sand, Karl; Kasbohm, Joachim; Henicke, Heinz; Landmann, Helmut; and Stocker, Winfried, 3,701,881.

More, Oskar Wilhelm, to Telefonaktiebolaget L M Ericsson. Arrangement for metallizing of parts of a body. 3,696,781, 10-10-72, Cl. 118-425.000.

Moreau, Andre Jules Pierre, to Societe: Etablissements Davey Bickford Smith & Cie and Societe Anonyme Francaise. Explosive device. 3,675,574, 7-11-72, Cl. 102-24.000.

Moreau, Bernard, to Creusot-Loire. Device for measuring the pressure of a fluid flowing in a pipe. 3,659,459, 5-2-72, Cl. 73-388.

Moreau, Claude, to Commissariat a l'Energie Atomique. Process for the fabrication of nuclear fuel elements. 3,668,283, 6-6-72, Cl. 264-.500.

Moreau, Glenn T.; and Bielefeldt, Irvin P., to Alco Standard Corporation. Fluxless brazing process. 3,673,678, 7-4-72, Cl. 29-494.000.

Moreau, Jean-Noel, to Thomson-CSF. Microwave band-pass filter having constant bandwidth as filter is tuned. 3,680,012, 7-25-72, Cl. 333-73.00w.

Moreau, Jerry P.: *See—*
Chance, Leon H.; and Moreau, Jerry P., 3,639,144.
Chance, Leon H.; and Moreau, Jerry P., 3,654,274.

Moreau, Wayne M.: *See—*
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Moreau, Wayne M.; and Rottmann, Hans R., to International Business Machines Corporation. Optical mask with integral spacers and method of making. 3,676,002, 7-11-72, Cl. 355-133.000.

Morehead, Edward A.: *See—*
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Morehouse, Alpha L.; Malzahn, Ronald C.; and Day, John T., to Grain Processing Corporation. Hydrolysis of starch. 3,663,369, 5-16-72, Cl. 195-31.000.

Morehouse, Clarence Kopperl; and Amlie, Robert F., to Globe-Union Inc. Water activatable battery. 3,649,363, 3-14-72, Cl. 136-114.

Morehouse, Edward L. Siloxane-polyoxyalkylene block copolymers containing aralkyl groups. 3,657,305, 4-18-72, Cl. 260-448.2.

Morehouse, Edward L., to Union Carbide Corporation. Siloxane-polyoxyalkylene block copolymers. 3,686,254, 8-22-72, Cl. 260-448.20b.

Morehouse, Edward L., to Union Carbide Corporation. Process for producing polyurethane foams. 3,703,489, 11-21-72, Cl. 260-2.5ah.

Morehouse, Edward L., to Union Carbide Corporation. Silicone sulfates. 3,707,492, 12-26-72, Cl. 260-448.20n.

Morehouse, Edward Lewis, to Union Carbide Corporation. Siloxane amino hydroxy sulfonates. 3,660,452, 5-2-72, Cl. 260-448.2.

Morehouse, Edward Lewis, to Union Carbide Corporation. Solution compositions of siloxane-oxyalkylene copolymers and amine catalysts and use for manufacture of polyurethane foam. 3,669,913, 6-13-72, Cl. 260-2.5ah.
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Morel, Charles J.: *See—*
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Morel, Jacques, to Rhone-Poulenc S.A. Process for the preparation of canthaxanthine. 3,646,149, 2-29-72, Cl. 260-586.
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Moreland, Colby D., to Dunham-Bush, Inc. Controlled forced draft action to the flue of a gas fired heat exchanger. 3,695,345, 10-3-72, Cl. 165-64.000.
Moreland, Floyd E. Deep-sea dive suit. 3,648,289, 3-14-72, Cl. 2-2.1.
Moreland, James B. Cable operated article releaser. 3,690,430, 9-12-72, Cl. 194-94.000.
Moreland, Sam L., Jr., said Moreland assor. to Texaco Inc. Apparatus for providing signals corresponding to the viscosity of a liquid. 3,666,999, 5-30-72, Cl. 317-127.
Moreland, Stephen T., to Scherer, R. P., Corporation. Method for filling and sealing plastic ampoules. 3,650,084, 3-21-72, Cl. 53-37.
Moreland, Stephen T. Continuous sausage manufacture. 3,698,916, 10-17-72, Cl. 99-109.000.
Moreland, William C., II, to Westinghouse Electric Corporation. Self-advancing programmer and pressure actuated devices control arrangement. 3,648,732, 3-14-72, Cl. 137-624.18.
Moreland, William C., II, to Westinghouse Electric Corporation. Self-advancing programmer and pressure actuated devices control arrangement. 3,707,080, 12-26-72, Cl. 62-233.000.
Morello, Edwin F.; and Serres, Carl, Jr., to Standard Oil Company. Process for preparing polyamide-imides. 3,652,498, 3-28-72, Cl. 260-47.
Morello, Edwin F., to Standard Oil Company (Indiana). Polyamide-imide compositions containing coatability aids. 3,677,992, 7-18-72, Cl. 260-32.80n.
Morello, Herbert: *See—*
Lowry, Alan B.; Mathus, Gregory; Morello, Herbert; and Miller, Robert J., 3,697,014.
Morello, Herbert; and Miller, Robert J., to Digital Information Devices, Inc. Tape cartridge receiving and positioning structure. 3,635,424, 1-18-72, Cl. 242-198.
Morelos, Salvador: *See—*
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Moren, Rolf Erhard. Process and composition for impregnating wood and wood products. 3,661,633, 5-9-72, Cl. 117-148.
Moren, Rolf Erhard; and Ydren, Nils-Erik, to Mo och Domsjo Aktiebolag and Skanski Cementaktiebolaget. Additive for concrete and mortar. 3,663,251, 5-16-72, Cl. 106-90.
Morena, Alfred, Jr.: *See—*
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Moreno, Albert M. Tensioning device for guy wires. 3,638,912, 2-1-72, Cl. 254-161.
Morera, Jose Coloma, to Alimentas Ibericos, S.A. Apparatus for sealing upper closure covers of containers. 3,660,965, 5-9-72, Cl. 53-329.
Moret, Michel A., to Institut de Recherche et de Diffusion Industrielle P.G.E Woog. Device for body care. 3,635,593, 1-18-72, Cl. 417-417.
Moret, Michel A., to Institut de Recherche et de Diffusion Industrielle P.G.E. Woog. Method and apparatus for oral hygiene. 3,696,809, 10-10-72, Cl. 128-66.000.
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Patron, Luigi; Moretti, Alberto; and Pasqualetto, Renato, 3,642,737.
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Moretti, Anthony L., to Bullard, E. D., Company. Interconnecting member for tension loads. 3,638,283, 2-1-72, Cl. 24-73.
Moretti, John A.: *See—*
Gillund, Arden G.; Holtshouse, Dan K.; Moretti, John A.; and Orlando, Vincent A., 3,703,300.
Moretti, Peter A., to U.S. Oil Company Incorporated. Phosphonium compounds. 3,699,192, 10-17-72, Cl. 260-926.000.
Moreuil, Jean-Louis: *See—*
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Morey Corporation, The: *See—*
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Morey, William J., Sr., to Morey Corporation, The. Retractable cord reel assembly. 3,695,544, 10-3-72, Cl. 242-107.00r.
Morez, Eugene Stephen, to Chicago Musical Instrument Co. Animation circuit for a musical instrument. 3,694,561, 9-26-72, Cl. 84-1.130.
Morf, Max; Wenger, Markus; and Feisst, Jutta, to Ciba-Geigy Corporation. Reaction products of carboxylic acid polymers, alkylenimines and alkylene oxides. 3,679,621, 7-25-72, Cl. 260-29.60h.
Morgan, Alan George, to British Petroleum Company Limited, The. Fluid delivery system. 3,648,894, 3-14-72, Cl. 222-74.
Morgan, Andrew, 50% to Leyva, Manuel M., Jr. Power sander attachment. 3,704,559, 12-5-72, Cl. 51-382.000.
Morgan, Bert B.; and Schroeder, George F., to Northrop Carolina, Inc. Textile thread winder with grooved drive roll. 3,690,578, 9-12-72, Cl. 242-18.0dd.
Morgan, Bevly Boone. Bank mask helmet. 3,672,365, 6-27-72, Cl. 128-141.00r.
Morgan, Bevly Boone, to U.S. Divers Co. Diving helmet. 3,680,556, 8-1-72, Cl. 128-142.200.
Morgan, Bruce M.: *See—*
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Morgan, Burton D. Method for forming concrete panels under compression. 3,655,847, 4-11-72, Cl. 264-94.
Morgan, Burton D. Cored slab wall panels. 3,677,688, 7-18-72, Cl. 425-468.000.
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Morgan, Charles W., to MM&W, Inc. Converter lock bar. 3,663,039, 5-16-72, Cl. 280-408.
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Kinnicutt, Roger, Jr., 3,680,758.
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Morgan, Cyril, to Alpha Industries, Inc., mesne. Point contact semiconductor device. 3,657,617, 4-18-72, Cl. 317-236.
Morgan, Daniel H.; and Herndon, Jackie E., to Tamar Electronics Industries, Inc. Digital cycle system coordinator for traffic control system. 3,654,598, 4-4-72, Cl. 340-41.
Morgan, David E., to Dunham-Bush, Inc. Aspirator disposal system for air conditioner evaporator condensate. 3,662,557, 5-16-72, Cl. 62-279.
Morgan, Donald G., to Electronic Memories & Magnetics Corporation. Magnetic separator. 3,678,427, 7-18-72, Cl. 335-304.000.
Morgan, Edward Ieian: *See—*
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Morgan, Edward T., to Addressograph-Multigraph Corporation. Cleaning unit for printing press blanket. 3,693,547, 9-26-72, Cl. 101-425.000.
Morgan, Everett L. Variable geometry aircraft. 3,684,216, 8-15-72, Cl. 244-13.000.
Morgan, George Graham: *See—*
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Morgan, George W., to Subsea Equipment Associates Limited, mesne. Bi-axial articulating pipeline structure. 3,677,302, 7-18-72, Cl. 138-106.000.
Morgan, George W.; and Whitney, Douglas S. Conveyor system. 3,679,045, 7-25-72, Cl. 198-203.000.
Morgan, George W., to Subsea Equipment Associates Limited, mesne. Submerged storage unit. 3,686,875, 8-29-72, Cl. 61-46.000.
Morgan, George W., to Subsea Equipment Associates Limited, mesne. Method and apparatus for subsurface towing of flowlines. 3,698,348, 10-17-72, Cl. 114-235.00b.
Morgan, George W., to Subsea Equipment Associates Limited, mesne. Multi-conduit riser with a flexible joint. 3,701,551, 10-31-72, Cl. 285-137.00r.
Morgan, Harold R., to Dearborn Glass Company. Oven cabinet construction. 3,659,582, 5-2-72, Cl. 126-198.
Morgan, Harvey E.; Suttle, Theodore; and Schenck, Jackson C., to Ragan, Brad, Inc. Apparatus for removing a tire tread. 3,646,984, 3-7-72, Cl. 157-13.
Morgan, Henry A.: *See—*
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Morgan, Henry Z., to Visual Container Corporation. Containers that are compactly nestable when empty and stackable in spaced relation when full. 3,651,977, 3-28-72, Cl. 220-97.
Morgan, Herbert S., Jr., to Monsanto Company. Process for spinning wholly aromatic polyamide filaments. 3,642,706, 2-15-72, Cl. 260-78.
Morgan Information Systems, Inc.: *See—*
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Morgan, Ira Lon; and Rhodes, John R., to Nuclear-Chicago Corporation. Probe for locating specific elements in a borehole. 3,697,752, 10-10-72, Cl. 250-71.50r.
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Morgan, Jack B., to Allegheny Ludlum Industries, Inc. Method and apparatus for evaluating metal cleanliness. 3,677,073, 7-18-72, Cl. 73-67.900.
Morgan, John A., to Phillips Petroleum Company. Valve control system. 3,659,171, 4-25-72, Cl. 318-443.
Morgan, John C.: *See—*
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Morgan, John S. Multispeed winch. 3,656,596, 4-18-72, Cl. 192-17.
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Morgan, John W., to Procter & Gamble Company, The. Novel esters of chrysanthemic acid and alcohols related to 2-indanol. 3,647,857, 3-7-72, Cl. 260-468.
Morgan, Johnson T. Cover for waste container. 3,675,813, 7-11-72, Cl. 220-36.000.
Morgan, Joseph Paton. Device for supporting and dispensing articles. 3,648,892, 3-14-72, Cl. 221-301.
Morgan, Justin W. Hairsetting device. 3,667,482, 6-6-72, Cl. 132-9.
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Clark, John A., Jr.; Morgan, Lemuel J.; and Kirschner, Robert F., 3,666,003.
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Kirschner, Robert F.; Morgan, Lemuel J.; and Clark, John A., Jr., 3,688,839.
Morgan, Leslie, to Leslie, Morgan, Furniture Limited. Furniture. 3,685,063, 8-22-72, Cl. 5-345.000.
Morgan, Loran B. Apparatus for removing foreign bodies from the cornea of the eye. 3,645,266, 2-29-72, Cl. 128-305.
Morgan, Loran B. Scleral lens with attached tube. 3,664,340, 5-23-72, Cl. 128-249.
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Morgan, Paul E.: *See—*
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Morgan, Paul W.: *See—*
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Morgan, Paul W., to Du Pont de Nemours, E. I., and Company. Process for chain terminating poly(1,4-amino benzoic acid). 3,637,606, 1-25-72, Cl. 260-78.
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Morgan, Peter E. D., to Research Corporation. Pressure calcintering. 3,676,079, 7-11-72, Cl. 23-345.000.
Morgan, R. A., Co., Inc.: *See—*
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Morgan, Richard M., to Miller Fluid Power Corporation. Piston and rod assembly for piston and cylinder devices. 3,703,852, 11-28-72, Cl. 92-258.000.
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Morgan, Thomas E., Jr.: *See—*
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Morgan, Veldon. Animal hair conditioning comb. 3,633,549, 1-11-72, Cl. 119-92.
Morgan, Vernon: *See—*
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Morgan, Wendell D., to Fedders Corporation. Dishwasher impeller and spray apparatus. 3,645,453, 2-29-72, Cl. 239-237.
Morgan, Wendell D., to Fedders Corporation. Dishwasher spray arm with integral beating. 3,672,573, 6-27-72, Cl. 239-261.000.
Morgan, William A.: *See—*
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Nolan, Clyde E., Jr.; Morgan, William A.; and Rochelle, William R., 3,680,322.
Morgan, William A., to Brown & Root, Inc. Method and apparatus for connecting pipelines. 3,667,128, 6-6-72, Cl. 33-180.00r.
Morgan, William C.: *See—*
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Morgan, William R., Jr. Shipping container for poultry. 3,635,198, 1-18-72, Cl. 119-19.
Morgand, Jean Paul; Magnan, Henri; and Romagny, Bernard, to Thomson-CSF. Visual display system with digital storage of video information. 3,651,253, 3-21-72, Cl. 178-6.6.
Morganite Research & Development Limited: *See—*
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Morganite Thermal Designs Limited: *See—*
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Morgans, David J.; Bavitz, Joseph F.; and Castello, Robert A., to Merck & Co., Inc. Process for producing magnesium probenecid tetrahydrate. 3,655,742, 4-11-72, Cl. 260-518.
Morgenberger, Peter C. Wheel dolly for lifting snowmobiles and the like. 3,700,212, 10-24-72, Cl. 254-131.000.
Morgenroth, Henri. Meteringrod carburetor. 3,640,512, 2-8-72, Cl. 261-34.
Morgenstern, Dieter: *See—*
Dijkhuizen, Willem; Termin, Erich; Bleh, Otto; and Morgenstern, Dieter, 3,673,159.

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Morgenstern, Karl; Schnell, Hermann; Bottenbruch, Ludwig; Court, Otto; Schwarz, Hans-Helmut; and Vernaleken, Hugo, to Farbenfabriken Bayer Aktiengesellschaft. Process for the purification of polymer solutions. 3,666,719, 5-30-72, Cl. 260-47.

Morgenstern, Stanley W., to Technicon Instruments Corporation. Method and apparatus for sample analysis on a continuous flow basis. 3,700,562, 10-24-72, Cl. 195-103.50r.

Morgenthaler, Frederic R., to Chu Associates, Inc. Signal processing apparatus. 3,668,568, 6-6-72, Cl. 333-30.

Morgenthaler, Frederic R., to Chu Associates, Inc. Electrical signal processing method and apparatus. 3,707,689, 12-26-72, Cl. 333-30.00r.

Morgenthaler, William W., to Monsanto Company. Stabilized ammonium phosphate solutions comprising a galactomannan gum and metal salt. 3,634,234, 1-11-72, Cl. 252-7.

Morgese, Nicholas V., to Continental Can Company, Inc. Carton with gussetted ends. 3,652,005, 3-28-72, Cl. 229-40.

Morgese, Nicholas V., to Continental Can Company, Inc. Carton with gussetted ends. 3,679,121, 7-25-72, Cl. 229-40.000.

Morgida, Joseph V.: *See*—
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Mori, Chiharu; and Nakajima, Toru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Automatic timing network for camera shutters. 3,670,637, 6-20-72, Cl. 95-10.0ct.

Mori, Chiharu; and Ota, Katsumi, to Asahi Kogaku Kogyo Kabushiki Kaisha. System for controlling a camera shutter. 3,678,826, 7-25-72, Cl. 95-10.0ct.

Mori, Chiharu; and Ota, Katsumi, to Asahi Kogaku Kogyo Kabushiki Kaisha. Electronic circuits for automatic camera controls. 3,690,230, 9-12-72, Cl. 95-10.0ct.

Mori, Eiji: *See*—
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Mori, Ernest A., to Gulf Research & Development Company. Floating rig motion compensator. 3,687,205, 8-29-72, Cl. 175-27.000.

Mori, Hajime; and Irizuki, Mamoru, to Nihon Denshi Kabushiki Kaisha. Apparatus for automatically recording the depolarization ratios of Raman bands. 3,697,180, 10-10-72, Cl. 356-75.000.

Mori, Haruki; Takahashi, Toshinao; and Koyama, Eisuke, to Nippon Steel Corporation. Shift controlling device for shifted materials. 3,643,147, 2-15-72, Cl. 318-603.

Mori, Hiroo: *See*—
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Mori, Hirosaburo: *See*—
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Mori, Hiroshi: *See*—
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Mori, Hisakazu: *See*—
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Mori, Hisayuki; and Noguchi, Yoji, to Sekisui Kegaku Ogyo Kabushiki Kaisha. Rotational molding apparatus. 3,677,670, 7-18-72, Cl. 425-62.000.

Mori, Ikuo, to Nippon Kogaku K.K. Retrofocus type lens system. 3,635,546, 1-18-72, Cl. 350-214.

Mori, Ikuo; and Matsuki, Keiji, to Nippon Kogaku K.K. High magnifying power dry objective microscope. 3,661,446, 5-9-72, Cl. 350-214.

Mori, Ikuo, to Nippon Kogaku K.K. Retrofocus type super-wide angle objective lens. 3,663,095, 5-16-72, Cl. 350-214.

Mori, Kazuhiro; Nakamura, Abio; Nakai, Miyoji; and Komisako, Tetuji, to Matsushita Electric Industrial Co., Ltd. Apparatus for producing open-topped hollow articles. 3,670,548, 6-20-72, Cl. 72-187.000.

Mori, Kazuo: *See*—
Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Yamamoto, Hisao, 3,666,643.
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Mori, Kunio; and Shirage, Yoshio, to Nippon Kokan Kabushiki Kaisha. Sliding apparatus of a movable bridge. 3,668,729, 6-13-72, Cl. 14-43.000.

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Mori, Lioi; and Ito, Katsuhiko. Device for distributing vibratory energy. 3,696,259, 10-3-72, Cl. 310-8.000.

Mori, Masao, to Minolta Camera Kabushiki Kaisha. Film locking device in camera. 3,675,555, 7-11-72, Cl. 95-31.0fm.

Mori, Masato: *See*—
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Mori, Masonori. Steel plate bending apparatus. 3,693,391, 9-26-72, Cl. 72-173.000.

Mori, Minoru; and Kishikawa, Toshiro, to Fuji Shashin Koki Kabushiki Kaisha. Optical system for a color television camera. 3,696,202, 10-3-72, Cl. 178-5.4st.

Mori, Miyoshi; and Takasu, Shozo, to Aisin Seiki Kabushiki Kaisha. Automatic pattern stitch device in a hand knitting machine. 3,641,788, 2-15-72, Cl. 66-60.

Mori, Ryoichi; Tajima, Hiroaki; Tsuji, Yoshio; and Sanechika, Noriaki, to Kogyo Gijutsuin; a/k/a Industrial Science and Technology Ministry of International Trade and Industry, Agency of. Logic circuits. 3,681,616, 8-1-72, Cl. 307-218.000.

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Mori, Takakazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. Automatic shift control system for automatic transmission. 3,665,779, 5-30-72, Cl. 74-866.

Mori, Takami, to Okamura Manufacturing Company, Limited. Brake released reversing transmission clutches. 3,702,648, 11-14-72, Cl. 192-4.00c.

Mori, Takao, to Inouye Kinzoku Kogyo Kabishiki Kaisha. Filter belt with means forming therewith plural pressure filter chambers. 3,695,440, 10-3-72, Cl. 210-225.000.

Mori, Takashi; and Yoshikawa, Tatsuya, to Fujitsu Limited. Multiprocessor type information processing system with control table usage indicator. 3,706,077, 12-12-72, Cl. 340-172.500.

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Mori, Taketoshi; and Iwatake, Sizuo. Skid beam supporting structure for the heating of walking beam type. 3,687,427, 8-29-72, Cl. 263-6.00a.

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Mori, Yoichi; Okazaki, Nobuo; Ohtsuka, Kunio; and Iijima, Tetsya, to Nissan Motor Company, Limited. Gear train arrangements. 3,701,293, 10-31-72, Cl. 74-759.000.

Mori, Yoichi; Marumo, Nagayuki; Noburu, Fukazawa; and Ohie, Koichi, to Nissan Jidosha Kabushiki Kaisha. Automatic speed change device for vehicles. 3,701,623, 10-31-72, Cl. 74-695.000.

Mori, Yoshibumi, to Nippon Telegraph and Telephone Public Corporation. Satellite communication system. 3,676,778, 7-11-72, Cl. 325-4.000.

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Morieras, Gilbert; and de Lanauze, Michel Sere, to CTA-Compagnie Industrielle de Textiles Artificiels et Synthetiques. Noncircular cable and method of making the same. 3,653,197, 4-4-72, Cl. 57-139.

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Morikawa, Hiroyuki, to Mitsubishi Petrochemical Co., Ltd. Butadiene oligomers and production thereof. 3,658,926, 4-25-72, Cl. 260-666.

Morikawa, Hiroyuki; and Furukawa, Junji, to Mitsubishi Petrochemical Co., Ltd. Open-chain oligomers and production of the same. 3,663,639, 5-16-72, Cl. 260-677.

Morikawa, Hiroyuki, to Mitsubishi Petrochemical Co., Ltd. Production of isoprene oligomers. 3,689,585, 9-5-72, Cl. 260-677.00r.

Morikawa, Hiroyuki, to Mitsubishi Petrochemical Co., Ltd. Production of isoprene dimers. 3,696,108, 10-3-72, Cl. 260-677.00r.

Morikawa, Kazumasa; Kobayashi, Makoto; Sato, Hiromitsu; and Nakazima, Jun, to Furukawa Electric Company Limited, The. Continuous winding apparatus. 3,698,652, 10-17-72, Cl. 242-25.00a.

Morikawa, Takashi; Higake, Sotomatsu; Sumi, Mitsugu; Urifu, Tohoru; and Yamamoto, Manabu, to Daiwa Boseki Kabushiki Kaisha and Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Ringless spinning machine. 3,696,605, 10-10-72, Cl. 57-58.950.

Moriki, Juichi; Itoh, Teruo; Shiosaki, Masaharu; Maeda, Yojin; Kuroki, Hisataka; Sumi, Kenshiro; and Shimura, Hidekazu. High-voltage piezoelectric transformer housed with diodes. 3,662,194, 5-9-72, Cl. 310-9.4.

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Morimoto, Hideo. Strip machine. 3,643,553, 2-22-72, Cl. 93-36.

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Morimoto, Rokuya; and Kodama, Reijiro, to Takeda Chemical Industries, Ltd. Utilization of living bacteria as insecticides. 3,642,982, 2-15-72, Cl. 424-93.

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Morimoto, Yasuo, to Daido Chemical Engineering Corporation. Regeneration of hydrochloric acid pickling waste by H_2SO_4 addition, distillation and $FeSO_4$ precipitation. 3,635,664, 1-18-72, Cl. 23-126.

Morimoto, Yoshiro, to Nissan Motor Company, Limited. Inboard-outboard drive for watercraft. 3,678,879, 7-25-72, Cl. 115-35.000.

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Morin, Jean; and Desperrier, Gerard, to Societe d'Appareillage Electrique Saparel. Push-button controlling device. 3,644,694, 2-22-72, Cl. 200-167.

Morin, Joseph Cecil, to Application Engineering Corporation. Method and apparatus for mixing particulate solids. 3,664,640, 5-23-72, Cl. 259-8.

Morin, Joseph Cecil, to Application Engineering Corporation. Mixing apparatus. 3,664,641, 5-23-72, Cl. 259-8.
Morin, Joseph Cecil, to Application Engineering Corporation. Mixing apparatus. 3,664,642, 5-23-72, Cl. 259-8.
Morin, Louis F., to Everflex Products, Inc. Coupler for reinforced hose. 3,675,951, 7-11-72, Cl. 285-39.000.
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Morin, Van, to Astro Music Company, Inc. Guitar servicing tool. 3,706,254, 12-19-72, Cl. 84-458.000.
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Morio, Minoru; and Kimura, Hiroyuki, to Sony Corporation. Color television receiver. 3,699,240, 10-17-72, Cl. 178-5.40p.
Morion, Jay. Composite offset printing plate. 3,696,745, 10-10-72, Cl. 101-415.100.
Morisaki, Nobukazu, to Daido Metal Company Ltd. Top roller for spinning machine. 3,671,089, 6-20-72, Cl. 308-20.000.
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Morishita, Yasomatsu, to Kabushiki Kaisha Ryobi Seisakusho. Fishing reel. 3,670,985, 6-20-72, Cl. 242-84.430.
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Moriyama, Hiromi; and Hibi, Susumu, to Hitachi, Ltd. Method for manufacturing a memory plane. 3,653,121, 4-4-72, Cl. 29-604.
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Moriyama, Kunimasa; Kogure, Tomio; Sakai, Kozi; and Takeuchi, Keisaku. Method of establishing a warp joint of a stranded wire and stranded wires used therein. 3,688,811, 9-5-72, Cl. 140-111.000.
Moriyasu, Hiro, to Tektronix, Inc. Pulse generator. 3,639,785, 2-1-72, Cl. 307-288. .
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Morley, Richard E.; Weiss, Eugene M.; Moline, Robert R.; and Greenberg, Michael P., to Alden Self-Transit Systems Corporation. Transportation system. 3,681,597, 8-1-72, Cl. 246-63.00c.
Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., to Dymo Industries, Inc. Addressing apparatus. 3,688,112, 8-29-72, Cl. 250-65.00t.
Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., to Dymo Industries, Inc. Addressing apparatus. 3,702,400, 11-7-72, Cl. 250-65.00t.
Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., to Dymo Industries, Inc. Addressing methods and material. 3,707,435, 12-26-72, Cl. 161-270.000.
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Morlock, Elizabeth Benz; and Goldman, Leon, to American Cyanamid Company. Substituted 4-(anilinomethylene)-3-galanthamaninones. 3,673,177, 6-27-72, Cl. 260-240.300.
Morlock, Elizabeth Benz; Albright, Jay Donald; and Goldman, Leon, to American Cyanamid Company. Derivatives of 1,4,4a,9b-tetrahydro-8,9b-dimethyl-2-phenyl-1,4-ethanobenzofuro [3,2-c]pyridine-3(2h),10-dione. 3,673,194, 6-27-72, Cl. 260-293.550.
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Morotsky, Nikolai Stepanovich; Emelianenko, Natalia Lvovna; and Shagabutdinov, Ramil Iskandarovich. Combustion chamber coatings of diesel engines with volumetric-film or film mixing. 3,684,743, 8-15-72, Cl. 252-458.000.
Morozowich, Walter; and Sinkula, Anthony A., to Upjohn Company, The. Antibacterial compositions and methods of treating bacterial infections. 3,655,885, 4-11-72, Cl. 424-181.
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Morris, Aubrey J.; and Fox, James S. W., to Ambuco Limited. Method and apparatus for inserting a valve member between flanges of a flanged pipe connection. 3,633,598, 1-11-72, Cl. 137-15.
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Morris, Carolyn Ethel Mary, to Imperial Chemical Industries Limited. Production of fibre reinforced resin composites. 3,666,711, 5-30-72, Cl. 260-38.
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Morris, Harold D. Sensing mechanism for linear servo accelerometer. 3,690,187, 9-12-72, Cl. 73-512.00b.
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Morris, Horton H.; and Olivier, James P., to Freeport Sulphur Company. Inorganic materials surface reacted with organo titanium compounds. 3,660,134, 5-2-72, Cl. 106-308.
Morris, Horton H.; Olivier, James P.; and Prescott, Paul I., to Freeport Sulphur Company. Organo-clay-polymer compositions. 3,697,474, 10-10-72, Cl. 260-40.00r.
Morris, Horton H.; and Prescott, Paul I., to Freeport Sulphur Company. Inorganic-organo titanate polymeric film. 3,697,475, 10-10-72, Cl. 260-41.00a.
Morris, Hugh C.: *See*—
Clark, Richard B.; Morris, Hugh C.; and Whitehurst, Gerald E., 3,640,359.
Morris, Jack, to Olin Corporation. Induction coil for high frequency welding. 3,681,559, 8-1-72, Cl. 219-10.790.
Morris, Jack, to Olin Corporation. Induction coil for high frequency welding. 3,689,727, 9-5-72, Cl. 219-10.790.
Morris, Jack, to Olin Corporation. Forming mill guides. 3,691,337, 9-12-72, Cl. 219-8.500.
Morris, Jerome R.: *See*—
O'Keeffe, Terence W.; and Morris, Jerome R., 3,672,987.
Morris, Joel Morton, to Bell Telephone Laboratories, Incorporated. Switching system charging arrangement. 3,688,047, 8-29-72, Cl. 179-7.00r.
Morris, John: *See*—
Cathers, Richard T.; Douglass, William M.; Hess, Frederick D., Jr.; Morris, John; and Roberts, James E., 3,666,211.
Morris, John, to Lucas, Joseph, (Industries) Limited. Relief valve. 3,677,287, 7-18-72, Cl. 137-491.000.
Morris, John, to Lucas, Joseph, (Industries) Limited. Speed control for hydraulic transmission. 3,693,349, 9-26-72, Cl. 60-52.0vs.
Morris, John C.: *See*—
Noller, Harry F.; and Morris, John C., 3,664,578.
Morris, John M.; and Schrader, Preston H., to Rex Chainbelt Inc. Electromagnetic vibrator employing rectification of induced currents. 3,706,018, 12-12-72, Cl. 318-125.000.
Morris, John W., to Metal Improvement Company, Inc. Apparatus for shot-peening turbine blades. 3,668,913, 6-13-72, Cl. 72-53.000.
Morris, Leo R.: *See*—
Howe, Joseph H.; and Morris, Leo R., 3,634,485.
Morris, Lester. Rigid, buoyant, insulating and rapid folding swimming pool covers. 3,683,428, 8-15-72, Cl. 4-172.140.
Morris, Lewis C., to RCA Corporation. High speed tunable maser for use in radar and communication receivers. 3,688,207, 8-29-72, Cl. 330-4.000.
Morris, Louis; and Specht, Theodore R., to Westinghouse Electric Corporation. Interwinding shield for power transformers. 3,678,428, 7-18-72, Cl. 336-84.000.
Morris, Louis P.: *See*—
Katchka, Jay R.; Caparone, Michael J.; and Morris, Louis P., 3,691,501.
Morris, Peter, to Procter & Gamble Company, The. Process for preparing betaines. 3,649,677, 3-14-72, Cl. 260-501.13.
Morris, Peter Duncan; and Trayner, Brian T., to British Aircraft Corporation Limited. Sighting apparatus which overcomes trunnion tilt error. 3,688,638, 9-5-72, Cl. 89-41.00t.
Morris, Peter John: *See*—
Morris, Arthur Leslie; Morris, Peter John; and Simpkin, Dennis John, 3,682,819.
Morris, Peter Reginald, to Esso Research and Engineering Company. Derivatives of aliphatic-hydrocarbyl substituted heterocyclic nitrogen compounds. 3,632,600, 1-4-72, Cl. 260-308.
Morris, Philip, Incorporated: *See*—
Braginetz, Paul A., 3,643,794.
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Foster, Coleman Arthur; and Taylor, David Johnston, 3,661,666.
Gentry, Elwood M.; and Lilly, Arnys Clifton, Jr., 3,656,474.
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Stahr, Henry M., 3,671,410.
Tamol, Ronald A.; and Meyer, Leo F., 3,699,973.
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Morris, Raymond J. T., to Dunlop Holdings Limited. Method of bonding polypropylene or a copolymer of ethylene and propylene to an elastomer. 3,690,925, 9-12-72, Cl. 117-76.00t.

Morris, Robert D.: *See*—
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Morris, Robert J., Jr.; and Hartz, Thomas Jayes, to National Can Corporation. Container closure. 3,666,138, 5-30-72, Cl. 220-53.000.
Morris, Robert S.: *See*—
Meek, Nigel W.; and Morris, Robert S., 3,656,284.
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Morris, Ross E., to United States of America, Navy. Method for salvage of sunken ships. 3,696,773, 10-10-72, Cl. 114-54.000.
Morris, Rupert C.: *See*—
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Morris, Rupert C.; and Mason, Ronald F., to Shell Oil Company. Sec-phosphine dithiophosphinic acid salts. 3,673,231, 6-27-72, Cl. 260-429.900.
Morris, Stephen J.; and O'Keefe, James M., to Marlin Firearms Co., The. Method of, and apparatus for, burn-fitting wooden gun stocks to metal receivers. 3,697,715, 10-10-72, Cl. 219-10.430.
Morris, Thomas B.; Paul, Fred; and Powell, Barney R., said Morris assor. to Standard Forge Axle Company, Inc. Apparatus for welding flanges. 3,634,648, 1-11-72, Cl. 219-125.
Morris, Thomas B.; Paul, Fred; and Powell, Barney R., said Powell assor. to Standard Forge Axle Company, Inc. Apparatus for welding brake shoes. 3,665,146, 5-23-72, Cl. 219-124.
Morris, Thomas S., to West Point-Pepperell, Inc. Acid bounding nonwoven fabrics. 3,647,591, 3-7-72, Cl. 156-220.
Morris, Trebor B.: *See*—
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Morris, William F., Jr. Ingredient water chiller apparatus. 3,635,040, 1-18-72, Cl. 62-219.
Morris, Wolford A., to Restaurant Products, Inc. Food fryer with continuously filtered cooking oil. 3,648,595, 3-14-72, Cl. 99-342.
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Morrison, Albert R.; and Haynes, Harold L., to Owens-Corning Fiberglas Corporation. Size for fibers and glass fibers coated therewith. 3,664,855, 5-23-72, Cl. 106-212.
Morrison, Andrew Ivar; and Hannah, Bruce R., to Art Metal-Knoll Corporation. Furniture construction. 3,640,576, 2-8-72, Cl. 297-440.
Morrison, Andrew Ivar; and Hannah, Bruce R., to Knoll International, Inc. Slung furniture. 3,677,601, 7-18-72, Cl. 297-441.000.
Morrison, Charles Archer, to Drosdy Importers Proprietary Limited. Battery terminal connectors. 3,662,322, 5-9-72, Cl. 339-95.00b.
Morrison, Charles F., Jr.: *See*—
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Morrison, Clyde A.; Wortman, Donald E.; and Farrar, Ruben T., to United States of America, Army. Nuclear charged self-sustaining laser. 3,667,068, 5-30-72, Cl. 331-94.500.
Morrison, Clyde A. Peristaltic fluid pump. 3,677,667, 7-18-72, Cl. 417-474.000.
Morrison, David J. Modular construction for enclosed theaters. 3,685,220, 8-22-72, Cl. 52-8.000.
Morrison, Douglas I., to Pitney-Bowes, Inc. Document handling apparatus for photocopy machines. 3,661,383, 5-9-72, Cl. 271-51.
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Morrison, Edwin A., to Culligan International Company. Water softener valve. 3,701,360, 10-31-72, Cl. 137-454.600.
Morrison, Frank W.; and Morrison, Jerry E. Adjustable support for tree shaking mechanism. 3,656,287, 4-18-72, Cl. 56-328.
Morrison, Glenn C.; and Shavel, John, Jr., to Warner-Lambert Company. Pyridyl β-ketosulfoxides and sulfones. 3,679,691, 7-25-72, Cl. 260-294.80f.
Morrison, Horace S. Hull friction reducing apparatus. 3,680,517, 8-1-72, Cl. 114-67.00a.
Morrison, Howard J.: *See*—
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Glass, Marvin I.; and Morrison, Howard J., 3,694,955.
Morrison, Howard J., to Glass, Marvin, & Associates. Mobile toy. 3,638,354, 2-1-72, Cl. 46-132.
Morrison, Howard J.; and Glass, Marvin I., to Glass, Marvin, & Associates. Figure toys. 3,645,038, 2-29-72, Cl. 46-151.
Morrison, Howard J.; and Glass, Marvin I., to Glass, Marvin, & Associates. Drawing device. 3,648,373, 3-14-72, Cl. 33-18.
Morrison, Howard J., to Glass, Marvin, & Associates. Timing apparatus for toy racing cars. 3,648,454, 3-14-72, Cl. 58-145.
Morrison, Howard J., to Glass, Marvin, & Associates. Ball carrier. 3,685,202, 8-22-72, Cl. 46-40.000.
Morrison Industries, Inc.: *See*—
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Morrison, Jack A., to Dow Chemical Company, The. Treatment of pentachlorophenol. 3,646,225, 2-29-72, Cl. 260-623.
Morrison, James G., to National Steel Corporation. Corrosion resistant articles having a zinc surface and process for preparing the same. 3,669,705, 6-13-72, Cl. 117-17.000.
Morrison, James S., to Du Pont de Nemours, E. I., and Company. De-emulsifiers for oil-based emulsions. 3,647,688, 3-7-72, Cl. 252-855.
Morrison, Jerry E.: *See*—
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Morrison, Jimmie H., to Storm Manufacturing Company. Apparatus for painting articles. 3,633,536, 1-11-72, Cl. 118-6.
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Morrison, Richard J.; Schlumpf, Arthur A.; and Martino, Albert J., to Rixson Inc. Friction door holder. 3,683,450, 8-15-72, Cl. 16-49.000.
Morrison, Richard J.; and Ross, Sidney D., to Sprague Electric Company. Silica surface treatment. 3,687,718, 8-29-72, Cl. 117-106.00a.
Morrison, Robert, to Speedcranes Limited. Derrick cranes and swinging derricks. 3,685,669, 8-22-72, Cl. 212-58.000.
Morrison, Robert A., to Aerojet-General Corporation. Electrical connectors and attachments. 3,634,808, 1-11-72, Cl. 339-21.
Morrison, Robert C.; and Kamienski, Conrad W., to Lithium Corporation of America. Organolithium polymerization initiators and use thereof in polymerization processes. 3,668,263, 6-6-72, Cl. 260-665.
Morrison, Robert C.; and Kamienski, Conrad W., to Lithium Corporation. Preparation of hydrocarbon solvent solutions of organolithium compounds. 3,694,516, 9-26-72, Cl. 260-665.00r.
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Morrison, Robert S., to Morrison Industries, Inc. Method of making a fibrous glass plastic encapsulated plywood or like core panel. 3,695,968, 10-3-72, Cl. 156-216.000.
Morrison, Robert W. Massage-exerciser device. 3,645,256, 2-29-72, Cl. 128-57.
Morrison, Steven, to United States of America, Navy, mesne. D.C. to A.C. converter with unique feedback demodulation. 3,699,423, 10-17-72, Cl. 321-8.00r.
Morrison, Walter C., to Harris-Intertype Corporation. Low sound level single facer machine. 3,671,361, 6-20-72, Cl. 156-472.000.
Morrison, William B.; and Howorko, Adolf. Hearing aid systems. 3,659,056, 4-25-72, Cl. 179-82.
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Morrison, William F.; and Hauser, Henry A., 1/2 to Universal Oil Products Company and 1/2 to Ambuco Limited. Catalytic cracking apparatus. 3,677,715, 7-18-72, Cl. 23-288.00s.
Morrison-Knudsen Company, Inc.: *See*—
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Morrissey, Ronald James; and Crumley, J. A., to AMP Incorporated. Porosity testing. 3,649,472, 3-14-72, Cl. 204-1.
Morriston, Douglas I.; and Calvi, Salvatore J., to Pitney-Bowes, Inc. Reciprocating document carriage for photocopier. 3,697,165, 10-10-72, Cl. 355-8.000.
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Morrow, John Phillip, to Bell Telephone Laboratories, Incorporated. Nonrecursive digital filter apparatus employing delayed-add configuration. 3,665,171, 5-23-72, Cl. 235-152.000.
Morrow, Joseph G. Conduit plug. 3,667,640, 6-6-72, Cl. 220-24.500.
Morrow, Paul. Monitoring circuit for detecting leakage currents. 3,700,966, 10-24-72, Cl. 317-18.00d.
Morrow, Robert D.; and Sesko, William J., to Technology Systems, Inc. Cash handling apparatus having a multi-cell magazine. 3,682,183, 8-8-72, Cl. 133-1.000.
Morrow, Robert S.: *See—*
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Morrow, Robert S.; Penn, Lloyd D.; and Hays, Kenneth E. Inductive vibration pickup apparatus. 3,707,671, 12-26-72, Cl. 324-34.00r.
Morrow, Terry R., to Mobil Oil Corporation. Water pollution abatement in a petroleum refinery. 3,671,422, 6-20-72, Cl. 208-79.000.
Morrow, William B., to Aqua-Mist, Incorporated. Furnace humidifier. 3,635,210, 1-18-72, Cl. 126-113.
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Morse, Frank C.: *See—*
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Morse, Glenn B. Milling vise. 3,663,003, 5-16-72, Cl. 269-60.
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Morse, John B., to Polaroid Corporation. Plug and socket assemblies for flash cubes. 3,691,508, 9-12-72, Cl. 339-45.00t.
Morse, John B., to Polaroid Corporation. Flash unit with indexible socket. 3,692,991, 9-19-72, Cl. 240-1.300.
Morse, John E.; and Rosenburgh, Norman J., to Eastman Kodak Company. Web handling apparatus. 3,640,438, 2-8-72, Cl. 226-25.
Morse, John E., to Eastman Kodak Company. Web tension isolator or amplifier for web handling apparatus. 3,656,674, 4-18-72, Cl. 226-25.
Morse, John E.; and Rosenburgh, Norman J., to Eastman Kodak Company. Tape dispenser and applicator. 3,677,864, 7-18-72, Cl. 156-505.000.
Morse, Lewis D.: *See—*
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Morse, Lewis D.; and Hammes, Paul A., to Merck & Co., Inc. Composition for improving bread making and texture. 3,701,668, 10-31-72, Cl. 99-91.000.
Morse, Mansfield K. Universal hole saw arbor. 3,647,310, 3-7-72, Cl. 408-239.
Morse, Philip, to Xerox Corporation. Nonagglomerating blending process. 3,647,713, 3-7-72, Cl. 252-408.
Morse, Phillip H.; and Yarter, James R., to North American Instrument Corporation. Catheter storage rack. 3,633,758, 1-11-72, Cl. 211-13.
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Morse, Theodore H., to Eastman Kodak Company. Control for bias of magnetic brush and method. 3,674,532, 7-4-72, Cl. 117-17.500.
Morse, William F.; and Reid, Edward A., Jr., to Columbia Gas System Service Corporation. Slightly pressurized flat-top stove. 3,633,562, 1-11-72, Cl. 126-39.
Morse, William F.; and Reid, Edward A., Jr., to Columbia Gas System Service Corporation. Annular infrared burner. 3,635,648, 1-18-72, Cl. 431-170.
Morse-Brown, Austin G., to Bath Institute of Medical Engineering, The. Invalid chairs. 3,679,260, 7-25-72, Cl. 297-338.000.
Morsing, Gijsbertus B.; and Brinkmaan, Theqnis, to Singer Company, The. Apparatus for interpreting information recorded on an erasable storage medium, and for making it possible to replace such information in full or in part. 3,633,190, 1-4-72, Cl. 340-1731.
Morsing, Lars Johan Gustaf, to Avesta Jernverks Aktiebolag. Ferritic, austenitic, martensitic stainless steel. 3,650,709, 3-21-72, Cl. 29-196.1.
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Mortillaro, Luigi; Russo, Mario; and Guidotti, Vincenzo, to Montecatini Edison S.p.A. Unsaturated polyamides and process for obtaining same. 3,647,765, 3-7-72, Cl. 260-780.
Mortimer, Frank R.; Brewster, Alan R.; and Bartram, Michael J., to Dunlop Company Limited, The. Braking systems. 3,700,075, 10-24-72, Cl. 188-346.000.
Mortl, Gunther Lorenz, to Oesterreichisch-Amerikanische Magnesit A.G. Refractory, fired magnesia brick. 3,676,163, 7-11-72, Cl. 106-58.000.
Morton, Bruce J.: *See—*
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Morton, Charles G., to General Electric Company. Method for improving strippability of insulation from wire. 3,666,596, 5-30-72, Cl. 156-344.000.
Morton, Clive C. Aerator valve and dental cleanser appliance. 3,680,791, 8-1-72, Cl. 239-428.500.
Morton, David Russell, to Procter & Gamble Company, The. Textile softening agents impregnated into absorbent materials. 3,686,025, 8-22-72, Cl. 117-140.000.
Morton, Donald E., to Goodyear Tire & Rubber Company, The. Process for reuse of polyester resin. 3,703,488, 11-21-72, Cl. 260-2.300.
Morton, Henry C., to Bendix Corporation, The. Organic binder for friction lining. 3,634,307, 1-11-72, Cl. 260-38.
Morton, Henry Clifford; and Rasmussen, Thomas J., to Bendix Corporation, The. Resin impregnated fibrous material having low friction. 3,655,603, 4-11-72, Cl. 260-29.3.
Morton, Howard S. Insulating construction block. 3,654,740, 4-11-72, Cl. 52-222.
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Morton, Kenneth O., to Cluett, Peabody & Co. Inc. Arcuate stacker. 3,661,384, 5-9-72, Cl. 271-88.000.
Morton, Lloyd D. Automatic rotary welding unit. 3,692,972, 9-19-72, Cl. 219-76.000.
Morton, Maurice; and Fetters, Lewis J., to Goodyear Tire & Rubber Company, The. Preparation of organodilithium initiator and polymerizations utilizing same. 3,663,634, 5-16-72, Cl. 260-665.
Morton, Paul S. Charcoal grill. 3,667,446, 6-6-72, Cl. 126-9.00r.
Morton, Paul S. Distress signaling device. 3,703,152, 11-21-72, Cl. 116-28.00r.
Morton, Randolph J. Jet propelled motor. 3,689,173, 9-5-72, Cl. 415-82.000.

Morton, Robert E., to Leesona Corporation. Winding apparatus. 3,645,461, 229-72, Cl. 242-31.
Morton, Robert E., to Leesona Corporation. Winding apparatus. 3,656,698, 4-18-72, Cl. 242-27.
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Morton, Scott D., to United States of America, Navy. Electronic phasing and synchronizing circuit for facsimile recorders. 3,662,096, 5-9-72, Cl. 178-7.30s.
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Moslo, Ernest P. Foam plastic molding machine. 3,632,260, 1-4-72, Cl. 18-30.
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Moulton, Alexander Eric; and Harman, Harold, to Moulton Developments Limited. Vehicle suspension unit. 3,669,225, 6-13-72, Cl. 188-298.000.
Moulton, David M.: *See—*
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Moulton, Frederick T.: *See—*
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Moulton, H Douglass. Three-wheeled electrically propelled cart. 3,648,795, 3-14-72, Cl. 180-27.
Moulton Irrigation Company: *See—*
Moulton, Thomas S., 3,704,827.
Moulton, Richard D.; and Schieven, Stanley R.; deceased (by Schieven, Arline E.; executrix), to Eastman Kodak Company. Photographic film assemblage. 3,707,117, 12-26-72, Cl. 95-19.000.
Moulton, Thomas S., to Moulton Irrigation Company. Self propelled irrigation system. 3,704,827, 12--72, Cl. 239-177.000.
Moultrie, Charles W. Rear view optical train and dove prism. 3,659,927, 5-2-72, Cl. 350-286.
Mounce, William R.: *See—*
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Mounce, William R., to Cities Service Research and Development Company. Heavy oil hydrogen treating process. 3,645,887, 2-29-72, Cl. 208-96.
Mouneydiere, Robert, to Creusot-Loire. Bogies of chassis for rolling stock with a plurality of axles. 3,691,962, 9-19-72, Cl. 105-182.00r.
Mounier, Bruce. Impact actuated underwater gun. 3,664,052, 5-23-72, Cl. 42-1.00l.
Mount, Bruce Elson; and Massie, Harold Lee, to Hoffmann-La Roche Inc. Reconstruction of reflecting surface velocity and displacement from doppler signals. 3,663,932, 5-16-72, Cl. 340-1.00r.
Mount, Gordon L.: *See—*
Lavigne, William J., Jr.; and Mount, Gordon L., 3,638,445.
Mount, Gordon L., to Carrier Corporation. Auxiliary lubricating system. 3,637,048, 1-25-72, Cl. 184-6.1.
Mount, Gordon L.; and Endress, James W., to Carrier Corporation. Refrigerant cooling system for electric motor. 3,645,112, 2-29-72, Cl. 62-505.
Mount, Gordon L., to Carrier Corporation. Capacity control mechanism for centrifugal gas compressors. 3,672,786, 6-27-72, Cl. 415-147.000.
Mount, Gordon L.; and Endress, James W., to Carrier Corporation. Oil dilution control. 3,705,499, 12-12-72, Cl. 62-84.000.
Mount Hope Machinery Company: *See—*
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Mount Hope Machinery Company, Incorporated: *See—*
Hannaway, John H., 3,636,598.
Mount, Robert E.: *See—*
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Mouquin, Paul-Louis, to Valjoux S.A. Time-piece with a calendar indicator and chronograph mechanism. 3,675,412, 7-11-72, Cl. 58-58.000.
Mourey, Jean-Jacques; and Badertscher, Ernest, to Societe d'Assistance Technique pour Produits Nestle S.A. Production of casein by passage through a duct with a constriction. 3,705,143, 12-5-72, Cl. 260-120.000.
Mourey, Michele Yvonne Christiane: *See—*
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Mouri, Katsuo; Miyazaki, Gentaro; and Nabeyama, Hiroaki, to Hitachi, Ltd. Voltage controlled oscillator. 3,691,475, 9-12-72, Cl. 331-8.000.
Mourier, Emile, to Rhone-Poulenc S.A. Purification of dehydrolinalool by fractional distillation and water washing. 3,640,851, 2-8-72, Cl. 203-42.
Mourier, Emile. Process for producing acetylenic alcohols. 3,700,740, 10-24-72, Cl. 260-631.500.
Mouritzen, Gunnar, to Geoscience Limited. Transportation system. 3,669,026, 6-13-72, Cl. 104-118.000.
Mourkakos, George M. Apparatus for fabrication of swabs. 3,698,040, 10-17-72, Cl. 19-145.300.
Mourlon, Jean-Claude; and Dubois, Ernest Marie Rene, to Bertin & Cie. Method and apparatus for recovering a substance floating as a sheet on the surface of a liquid mass. 3,635,342, 1-18-72, Cl. 210-84.
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Moury, Pierre, to Jeumont-Schneider. Current chopper for DC machines connected to the terminals of a source having an inductive impedance. 3,634,728, 1-11-72, Cl. 317-16.
Moussalli, Francis S., to Celanese Corporation. Cellulose acetate and nylon fibers containing thiorea dyesites. 3,632,363, 1-4-72, Cl. 106-186.
Moussalli, Francis Selim, to Celanese Corporation. Procedure for dry cleaning. 3,640,881, 2-8-72, Cl. 252-171.
Mousseau, Daniel J.; and Larsen, Charles A., to Gorton Machine Corporation. Tool change mechanism. 3,691,626, 9-19-72, Cl. 29-568.000.
Mousseron, Max J., to Etablissements Clin-Byla. Nitrofurylacrylidene derivatives. 3,644,344, 2-22-72, Cl. 260-240.
Mousseron, Max J., to Etablissements Clin-Byla. Substituted thiazolidine-4-ones. 3,678,041, 7-18-72, Cl. 260-240.00a.

Mousseron, Max J., to Etablissements Clin-Byla. Substituted thiazolidine-4-ones. 3,704,296, 11-28-72, Cl. 260-240.00a.
Moussette, Oliver, to M. G. Dynamics, Inc. Manual magnetic recorder. 3,644,685, 2-22-72, Cl. 179-100.2.
Moussoulos, Lucas S. High recovery production of rich FeNi alloys in a converter. 3,647,418, 3-7-72, Cl. 75-82.
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Mowat, Keith B.; and Heyn, William O., to Chicago Rawhide Manufacturing Company. Oil seal with pumping action. 3,640,542, 2-8-72, Cl. 277-134.
Mowatt-Larssen, Erling: *See—*
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Mowrey, Albert C.; Huiskes, John H.; and Brand, Abraham, to General Instrument Corporation. Magnetic holddown for magnetic disc system. 3,706,085, 12-12-72, Cl. 340-174.10c.
Mowrey, Rowland G.: *See—*
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Mowrey, Rowland G.; Stephen, Keith H.; and Wolfarth, Eugene F., to Eastman Kodak Company. Compositions for making blixes. 3,706,561, 12-19-72, Cl. 96-60.0bf.
Mowry, David T.: *See—*
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Mowry, Harry E.; Ricardo, Louis A.; and Carricato, Guy V., to Miller Printing Machinery Co. Sheet gripping device. 3,637,202, 1-25-72, Cl. 271-51.
Mowry, Harry E.; Carricato, Guy V.; and Richard, Louis A., to Miller Printing Machinery Co. Printing press nonstop side register mechanism. 3,663,011, 5-16-72, Cl. 271-49.
Mowry, Harry E., to Miller Printing Machinery Co. Cutter and creaser. 3,699,831, 10-24-72, Cl. 83-94.000.
Mowry, Warren E., to Georgia-Pacific Corporation. Preparation of corrugating linerboard. 3,644,167, 2-22-72, Cl. 161-125.
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Moyer, Henry F.; and Revells, Robert G., to Libbey-Owens-Ford Company. Soldering apparatus. 3,685,714, 8-22-72, Cl. 228-6.000.
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Moyer, James D., to North American Rockwell Corporation. Pattern mechanism for circular knitting machines. 3,675,445, 7-11-72, Cl. 66-50.00b.
Moyer, John R.; and Moore, William G., to Dow Chemical Company, The. Bleaching composition. 3,639,248, 2-1-72, Cl. 252-186.
Moyer, Joseph D., to Grace, W. R., & Co. Process for preparing nitrilotriacetic acid triamide. 3,655,754, 4-11-72, Cl. 260-561.
Moyer, Richard E. Mushroom slicer. 3,664,398, 5-23-72, Cl. 146-129.00r.
Moyer, Robert C., to United States Steel Corporation. Apparatus for continuously processing wire or the like including vibrating means. 3,644,189, 2-22-72, Cl. 204-209.
Moyer, Robert G., to Union Carbide Corporation. Cooling system pressure tester. 3,650,147, 3-21-72, Cl. 73-49.7.
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Moyer, Ronald C.; and Uffner, Melville W., to Air Products and Chemicals, Inc. Functional surface coating compositions for cellulosic material. 3,664,987, 5-23-72, Cl. 260-78.5.
Moyer, Ronald C.; and Uffner, Melville W., to Air Products and Chemicals, Inc. Functional surface coating compositions for cellulosic material. 3,706,590, 12-19-72, Cl. 117-111.00b.
Moyer, Ronald G.; and Emory, Thomas M., Jr., to Digi-Log Systems, Inc. Transistor ignition system. 3,705,988, 12-12-72, Cl. 307-10.00r.
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Moyle, Clarence L.; and Chern, Diomed M., to Dow Chemical Company, The. 3-Alkoxy-4-aryloxy-cis-crotonic acid esters. 3,651,123, 3-21-72, Cl. 260-473.
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Moynihan, John J. Adjustable sleeve for sun visors. 3,649,068, 3-14-72, Cl. 296-97.
Moyroud, Louis M. Phototypesetting machines. 3,641,887, 2-15-72, Cl. 95-4.5.
Moyroud, Louis M. Photographic type composing machine. 3,643,559, 2-22-72, Cl. 95-4.5.
Moyroud, Louis M. Photocomposing machine and keyboard having line length conversion feature. 3,646,602, 2-29-72, Cl. 95-4.5.
Moyroud, Louis M. Photographic type-composing. 3,675,560, 7-11-72, Cl. 95-4.50r.
Moyroud, Louis M. Photocomposing machine. 3,695,156, 10-3-72, Cl. 95-4.500.
Moyroud, Louis M. Photocomposing machine. 3,703,138, 11-21-72, Cl. 95-4.50r.
Moyse, Gaston, to Moyse S.A. Linear motor powered railway. 3,631,808, 1-4-71, Cl. 104-148.
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Mozokhin, Nikolai G.; Maskenskov, Konstantin Mikhailovich; Kerimov, Niyazi Abdulkasim Ogly; Guseinova, Zuleikha Ismail Kyzy; Mekhtiev, Rafik Isrofil Ogly; and Evart, Garri Voldemarovich, to Gorkovsky Avtomobilny Zavod. System of fuel injection and precombution-chamber spray ignition in piston and rotary-piston internal combustion engines. 3,682,146, 8-8-72, Cl. 124-325.00p.
Mozzi, Henry J., Jr., to Stewart-Warner Corporation. Web coating control. 3,649,340, 3-14-72, Cl. 117-111.
MPB Corporation: *See—*
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MRT Magnet-Regeltechnik GmbH: *See—*
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Mrugala, Joseph V., to Sylvania Electric Products, Inc. Pressurized universal holding device. 3,700,226, 10-24-72, Cl. 269-22.000.
Mrugala, Theodore A., to Warner & Swasey Company, The, mesne. Grinding wheel guard. 3,690,074, 9-12-72, Cl. 51-269.000.
Mrugala, Theodore A.; and Kruck, Henry, to Warner & Swasey Company, The, mesne. Loader for mounting grinding wheels. 3,696,487, 10-10-72, Cl. 29-200.00d.
Mruk, Walter F., to MDC Technology Corporation. Automatic tension control apparatus. 3,648,338, 3-14-72, Cl. 28-36.
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Mucke, Bruno; Lohmer, Karl; and Gold, Heinrich, to Agfa-Gevaert Aktiengesellschaft. Process for hardening protein layers. 3,645,743, 2-29-72, Cl. 96-111.
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Muehllehner, Gerd, to Nuclear-Chicago Corporation. Tomographic imaging device using a rotating slanted multichannel collimator. 3,684,886, 8-15-72, Cl. 250-71.505.
Muela Negro, Carmen. Construction of filters. 3,667,606, 6-6-72, Cl. 210-193.000.
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Mueller, Arthur R., Jr. Stripping machine. 3,670,939, 6-20-72, Cl. 225-99.
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Mueller, Curt; and Zirngibl, Ulrich, to Sandoz Ltd.; a/k/a Sandoz AG. Disperse dyes of the naphthoylene-benzimidazole series. 3,632,589, 1-4-72, Cl. 260-282.
Mueller, Daniel L., to Xerox Corporation. Apparatus for conveying sheet material. 3,642,362, 2-15-72, Cl. 355-3.
Mueller, David E.; and Segura, Marnell A., to Esso Research and Engineering Company. Method of protecting reduced iron ore by coating. 3,690,930, 9-12-72, Cl. 117-100.00b.

Mueller, Everett C. Wind deflector for chimneys and the like. 3,641,914, 215-72, Cl. 98-66.

Mueller, Floyd F., to American Hospital Supply Corporation. Control system for hospital bed. 3,697,846, 10-10-72, Cl. 318-544.

Mueller, Francis E.: *See—*
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Mueller, Francis E., to International Business Machines Corporation. Method for aligning magnetic heads for use in recording a master disk pack. 3,665,437, 5-23-72, Cl. 340-174.10c.

Mueller, Francis E., to International Business Machines Corporation. Positioning system including servo track configuration and associated demodulator. 3,691,543, 9-12-72, Cl. 340-174.10b.

Mueller, Francis X., Jr.: *See—*
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Mueller, Francis X., Jr.; and Brown, James D., to Phillips Petroleum Company. Organoaluminum compounds as adjuvants in an organocalcium initiated polymerization of conjugated dienes and/or monovinyl aromatic compounds. 3,687,916, 8-29-72, Cl. 260-83.700.

Mueller, Frank H. Rotary plug valve. 3,687,416, 8-29-72, Cl. 251-164.000.

Mueller, Fred: *See—*
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Mueller, Frederick N., to Tetradyne Corporation. Method and apparatus for recovering impurities from the surface of a liquid. 3,659,713, 5-2-72, Cl. 210-83.

Mueller, Frederick N., to Tetradyne Corporation, mesne. Solids feeder system. 3,705,710, 12-12-72, Cl. 259-151.000.

Mueller, George R., to Case, J. I., Company. Luminous ammeter-voltmeter. 3,668,519, 6-6-72, Cl. 324-96.000.

Mueller, Gerhard; Doerfel, Helmut; and Schmidt-Thomee, Georg. Molding material from polyamide and acrylic ester of a t-aliphatic alcohol. 3,700,751, 10-24-72, Cl. 260-857.

Mueller, Gerhart Hermann: *See—*
Troeger, Gottfried; Mueller, Gerhart Hermann; Bachmann, Gerhard; Spoor, Herbert; and Batzill, Wolfgang, 3,697,461.

Mueller, Guenther, to Ciba Corporation. Process for the manufacture of a granular material containing oily or liquid therapeutically unable furanosides. 3,655,870, 4-11-72, Cl. 424-80.

Mueller, Hans, to Grapha Maschinenfabrik Hans Mueller AG. Transfer apparatus. 3,679,072, 7-25-72, Cl. 214-6.0ba.

Mueller, Hans J.: *See—*
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Mueller, Hans-Richard: *See—*
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Mueller, Herbert: *See—*
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Mueller, Herbert; Overwien, Hermann; Koehl, Harald; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 3-ketobutanol-(1). 3,662,001, 5-9-72, Cl. 260-594.

Mueller, Herbert; Koehl, Harald; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2-methyl-2-hepten-6-one. 3,670,028, 6-13-72, Cl. 260-593.

Mueller, Herbert; and Overwien, Hermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2-methylhept-1-en-6-one. 3,686,321, 8-22-72, Cl. 260-593.00r.

Mueller, Herbert; Overwien, Hermann; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alkenediols. 3,692,848, 9-19-72, Cl. 260-635.00r.

Mueller, Herbert; and Mangold, Dietrich. Production of 2-methyl-3-buten-2-ol. 3,696,155, 10-3-72, Cl. 260-642.000.

Mueller, Jacob: *See—*
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Mueller, John L., to Sparton Corporation. Tire bead lubricator. 3,658,152, 4-25-72, Cl. 184-1.

Mueller, Karl Robert: *See—*
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Mueller, Klaus P.: *See—*
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Mueller, Kurt Hugo, to Bell Telephone Laboratories, Incorporated. Initialization of adaptive control systems. 3,676,804, 7-11-72, Cl. 333-18.000.

Mueller, Leonard E., 40% to Brown, Carl R. Ground effect vehicle. 3,687,217, 8-29-72, Cl. 80-120.000.

Mueller, Martin: *See—*
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Mueller, Martin, to Microwave Associates, Inc. Variable RF group delay equalizer. 3,699,480, 10-17-72, Cl. 333-28.000.

Mueller, Marvin C., to Whirl-Air-Flow Corporation. High pressure air and liquid blending method and apparatus for discrete materials. 3,653,639, 4-4-72, Cl. 259-4.

Mueller, Max B.: *See—*
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Mueller, Max B.; Salatiello, Peter P.; and Kaufman, Herman S., to Allied Chemical Corporation. Cold flow resistant homogeneous copolymers of tetrafluoroethylene and hexafluoropropene and process for preparing them. 3,655,611, 4-11-72, Cl. 260-41.

Mueller, Otto. Locks for securing axles to a differential. 3,651,713, 3-28-72, Cl. 74-713.

Mueller, Otto. Safety mechanism for pressure gauge. 3,675,487, 7-11-72, Cl. 73-414.000.

Mueller, Peter F., to Technical Operations, Incorporated. Optical processing of information including synthesis by complex amplitude addition of diffraction spectra. 3,664,248, 5-23-72, Cl. 95-12.2.

Mueller, Peter G.: *See—*
Martone, Ronald J.; Mueller, Peter G.; and Flis, Richard J., 3,683,180.
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Mueller, Peter G., to Picker Corporation, mesne. Pulse height analyzer. 3,683,284, 8-8-72, Cl. 328-117.000.

Mueller, Ralph C. Molding device. 3,635,642, 1-18-72, Cl. 425-470.

Mueller, Reinhold: *See—*
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Mueller, Richard A.: *See—*
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Mueller, Richard Arno, to Gesellschaft fur Kernforschung mbH. Fuel element bundle for nuclear reactors. 3,658,646, 4-25-72, Cl. 176-78.

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Mueller, Rolf K.: *See—*
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Marom, Emanuel; and Mueller, Rolf K., 3,631,713.

Mueller, Rolf K.; and Emanuel, Marom, to Bendix Corporation, The. Hologram synthesis using a displaceable reference point source. 3,698,787, 10-17-72, Cl. 350-3.500.

Mueller, Rolf K., to Bendix Corporation, The. Method and apparatus for providing an enhanced image of an object. 3,704,931, 12-5-72, Cl. 350-3.500.

Mueller, Rudolph C.: *See—*
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Mueller, Thomas L.,: *See—*
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Mueller, Werner H.: *See—*
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Mueller, Werner H.; Hicks, John J., Jr.; and Campbell, Charles R., to Monsanto Company. Preparation of adipic acid by nitric acid oxidation of nitrosocyclohexane dimer. 3,636,100, 1-18-72, Cl. 260-537.

Mueller, Werner H.; Campbell, Charles R.; and Hicks, John J., Jr., to Monsanto Company. Process of preparing adipic acid by the nitric acid oxidation of cyclohexane. 3,654,355, 4-4-72, Cl. 260-533.

Mueller, William A.; and Swidler, Ronald, to Armour Industrial Chemical Company. Process for production of aliphatic acids. 3,637,478, 1-25-72, Cl. 204-162.

Mueller, William J.: *See—*
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Mueller, William J.; Berry, David A.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., to United States of America, Agriculture. Synthetic rubber compositions tackified by modified pine gum. 3,634,352, 1-11-72, Cl. 260-27.
Mueller, William N. Time saver drawup collar. 3,672,709, 6-27-72, Cl. 285-419.000.
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Mueller, Willy; Ronco, Karl; and Mory, Rudolf, to Ciba-Geigy AG. Disazo pigments. 3,691,149, 9-12-72, Cl. 260-174.000.
Mueller, Wolfgang H.: *See—*
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Mueller-Tamm, Heinz; and Hofmann, Alfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Laminated metal plates. 3,655,504, 4-11-72, Cl. 161-165.
Mueller-Tamm, Heinz; and Hofmann, Alfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Laminating metal to polyolefin with an organic peroxide and a terpolymer of ethylene, t-butyl acrylate and acrylic acid. 3,663,334, 5-16-72, Cl. 156-309.
Muellner, Frank E.; and Sarkozi, Lewis P., to Nus Corporation. Nuclear reactor fuel rod support grid. 3,679,546, 7-25-72, Cl. 176-78.000.
Muench, Charles A., to Forecast, Inc. Centrifugal casting machine. 3,651,858, 3-28-72, Cl. 164-286.
Muench, Nils L.; and Murphy, Charles B., to General Motors Corporation. Series lamp safeguard circuit. 3,639,805, 2-1-72, Cl. 315-122.
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Muenger, James R., to Texaco Inc. Heat exchange apparatus. 3,666,423, 5-30-72, Cl. 23-288.
Muenger, James R., to Texaco Inc. Water-gas shift conversion process. 3,666,682, 5-30-72, Cl. 252-373.000.
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Muhlbach, Anton; and Lauckhardt, Gerhard, to USM Corporation. Method for rounding welded edge seams. 3,673,300, 6-27-72, Cl. 264-160.000.
Muhlbach, Anton; and Fichtner, Rudi, to USM Corporation. Heel support for a shoe lasting machine. 3,683,439, 8-15-72, Cl. 12-14.400.
Muhlbauer, Ernst A., to Zahn-Porzellan KG E. Muhlbauer & Co. Duplex capsule for dental filling material. 3,651,932, 3-28-72, Cl. 206-47.
Muhlbauer, Ernst A., to Zahn-Porzellan KG E. Muhlbauer & Co. Multiplex capsule for dental filling materials. 3,655,035, 4-11-72, Cl. 206-47.
Muhlbauer, Herbert George, to Jefferson Chemical Company, Inc. Method for the preparation of piperazind and substituted piperazines. 3,639,403, 2-1-72, Cl. 260-268.
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Muhlemann, Ernst; and Bruun, Jean Eskild, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Gas-operated automatic firearm having thermal firing rate control. 3,690,219, 9-12-72, Cl. 89-193.000.
Muhler, Joseph C., to Indiana University Foundation. Oral compositions and methods for retarding dental caries and calculus. 3,666,855, 5-30-72, Cl. 424-52.000.
Muhler, Joseph C., to Indiana University Foundation. Dental prophylaxis composition comprising alumina of particular particle size. 3,670,076, 6-13-72, Cl. 424-157.000.
Muhler, Joseph C., to Indiana University Foundation. Anticariogenic dental amalgam. 3,676,112, 7-11-72, Cl. 75-173.00r.
Muhler, Joseph C., to Plastek Company. Interdental stimulator. 3,698,388, 10-17-72, Cl. 128-62.00a.
Muhler, Joseph C.; and Stookey, George K., to Indiana University Foundation. Impregnated article for cleaning the interproximal surfaces of the teeth. 3,699,979, 10-24-72, Cl. 132-89.000.
Muhlfeld, Frank J. Apparatus for teaching electrical concepts. 3,667,137, 6-6-72, Cl. 35-19.
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Mui, Jeffrey Y. P.; and Bennett, Everett W., to Union Carbide Corporation. Process for producing vinylchlorosilanes. 3,666,782, 5-30-72, Cl. 260-448.2.
Mui, Wing F.: *See—*
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Muir, Douglas William Ballantyne, to Iwine Findley Limited. Displacement transducer with inductive sensing head and means providing seperate displacement and direction signals. 3,684,961, 8-15-72, Cl. 324-34.00d.
Muir, Earl B.: *See—*
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Muise, Gordon J., to United States Steel Corporation. Method of bonding polypropylene to rubber and the method of making insulated electrical conductors therefrom. 3,668,043, 6-6-72, Cl. 156-321.000.
Muka, Edward, to Eastman Kodak Company. Loop control device. 3,650,447, 3-21-72, Cl. 226-34.
Mukai, Cromwell D.; and Steckhahn, Frank L., to American Home Products Corporation. Caustic alkali free oven cleaning composition. 3,658,711, 4-25-72, Cl. 252-90.
Mukai, Hideo; and Wada, Kimihiro, to Nishimura Seisakusho Co., Ltd. Apparatus for controlling the contact pressure between a contact roller and a winding up roll in winders. 3,670,980, 6-20-72, Cl. 242-67.100.
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Mulaskey, Bernard F., to Chevron Research Company. Hydroconversion process. 3,682,811, 8-8-72, Cl. 208-111.000.
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Mulcahy, Harry W.; and Russell, Thomas B., to Amsted Industries Incorporated. Dipper tooth assembly. 3,675,350, 7-11-72, Cl. 37-142.00a.
Mulcahy, Harry W.; Bushnell, Eldon W.; and Kaim, John W., to Amsted Industries, Incorporated. Multiple unit brake. 3,679,028, 7-25-72, Cl. 188-202.000.
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Muldon, Lawrence J. Bale wagon. 3,703,972, 11-28-72, Cl. 214-519.000.
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Mulhall, James Edward, to Long Island Oyster Farms, Inc. Process for removing crepidula from oyster shells. 3,679,478, 7-25-72, Cl. 134-25.00r.
Mulhall, Kenneth George. Heat treatment apparatus for the treatment of sewage and other sludges. 3,706,447, 12-19-72, Cl. 263-37.000.
Mulitz, Thomas C., to Pico Safe Stairs Co. Stair structure. 3,672,106, 6-27-72, Cl. 52-188.000.
Mulkens, Casper Antonius Henricus: *See—*
Hardeman, George Eduard Gerard, 3,707,325.
Wrona, Carl; and Heylands, Wilhelmus Frinciscus Aloysius, 3,653,601.
Mulkey, Owen R.; Kleingartner, Charles A.; and Zoutte, Arnold A., to Boeing Company, The. Capacitor ladder network. 3,665,458, 5-23-72, Cl. 340-347.0da.
Mull, Ralph L., Jr.: *See—*
Hiday, David R.; and Mull, Ralph L., Jr., 3,679,990.
Mull, Robert Paul; and Mizzoni, Renat Herbert, to Ciba Corporation. C-aralkyl-N-substituted alkylencimines. 3,634,432, 1-11-72, Cl. 260-293.4.
Mullaly, Jerome R., to General Electric Company. Voltage responsive switch. 3,675,045, 7-4-72, Cl. 307-235.000.
Mullaney, Jerry Allen, to Illinois Tool Works Inc. Torque Limiting nut. 3,691,897, 9-19-72, Cl. 85-62.000.
Mullen, Hugh, to Buell Engineering Company, Inc. Multiple unit precipitator apparatus. 3,631,655, 1-4-72, Cl. 55-133.
Mullen, James F. Mechanical hand. 3,694,021, 9-26-72, Cl. 294-106.000.
Mullen, John S., to Esso Research and Engineering Company. Pipe line leak detection and location system. 3,690,150, 9-12-72, Cl. 73-40.50r.
Mullen, John S., to Esso Research and Engineering Company. Pipe line leak detection and location system. 3,702,074, 11-7-72, Cl. 73-40.50r.
Mullen, John W. Structural module and furniture or other structures formed therefrom. 3,706,473, 12-19-72, Cl. 297-456.000.
Mullen, Joseph D., to General Mills, Inc. Thickened compositions and the process of preparing same. 3,635,836, 1-18-72, Cl. 252-316.
Mullen, Joseph D.; Ogrins, Alide; and Touba, Ali R., to General Mills, Inc. High pressure process for making puffed food product and product. 3,637,400, 1-25-72, Cl. 99-83.
Mullen, Joseph F., to Combustion Engineering, Inc. High moisture content fuel dispersion apparatus. 3,640,232, 2-8-72, Cl. 110-7.
Mullen, Lewis O.; and Sullivan, Donald B., to United States of America, National Aeronautics and Space Administration. Electrical insulating-layer process. 3,649,356, 3-14-72, Cl. 117-217.
Mullenhoff, James A.; and Voisinet, Walter E., to National Gypsum Company. Method for production of rigid polyurethane articles. 3,657,036, 4-18-72, Cl. 156-79.
Mullens, Thomas R.: *See—*
Mullens, Thomas R.; and Glave, Trevor J. (said Glave assor. to said), 3,694,810.
Mullens, Thomas R.; and Glave, Trevor J., said Glave assor. to said Mullens, Thomas R. Electronic security systems for multi-roomed buildings. 3,694,810, 9-26-72, Cl. 340-149.00r.
Muller, Adolf M.; and Grosselfinger, Josef. Stripper for the drawing frames of spinning machines. 3,705,441, 12-12-72, Cl. 19-263.000.
Muller, Albert G. Insulation cable cutter. 3,688,404, 9-5-72, Cl. 30-91.200.
Muller, Alfred; and Fink, Arno, to Siemens Aktiengesellschaft. Superconductive alloy and production thereof. 3,679,401, 7-25-72, Cl. 75-134.00v.
Muller, Andrew N.: *See—*
Tiner, Nathan A.; and Muller, Andrew N., 3,642,519.
Muller, Armand A. Umbrella construction. 3,683,947, 8-15-72, Cl. 135-20.00b.
Muller, Arthur. Parenteral iron preparations. 3,686,397, 8-22-72, Cl. 424-180.000.
Muller, Curt G. Fastener means. 3,640,173, 2-8-72, Cl. 85-8.8.
Muller, Dieter: *See—*
Arndt, Heinz-Herbert; Schadel, Jurgen; and Muller, Dieter, 3,633,076.
Muller, Donald C., to Butz Engineering Corporation. Parcel sorting conveyor system. 3,662,874, 5-16-72, Cl. 198-155.000.
Muller, Donald Sinclair. Grouting. 3,688,507, 9-5-72, Cl. 61-36.000.
Muller, Eckart; Eisenlohr, Karl Heinz; and Klein, Helmut, to Metallgesellschaft Aktiengesellschaft. Process for separating C_5 hydrocarbons by solvent extraction and extracture distillation. 3,707,575, 12-26-72, Cl. 260-666.00a.
Muller, Elmar; and Weimann, Klaus, to Aktiengesellschaft Brown, Boveri & Cie. Semiconductor element for switching purposes. 3,638,080, 1-25-72, Cl. 317-235.
Muller, Ernst; and Maurer, Albrecht, to Bizerba-Werke Wilhelm Kraut KG. Slicing machine and clamping device therefor. 3,702,150, 11-7-72, Cl. 146-102.00r.
Muller, Ernst Willi: *See—*
Wilke, Gunther; and Muller, Ernst Willi, 3,641,175.
Muller, Erwin: *See—*
Hagemann, Hermann; Muller, Erwin; and Fischer, Peter, 3,692,813.
Konig, Klaus; Muller, Erwin; Kallert, Wilhelm; and Muhlhausen, Cornelius, 3,640,967.
Konig, Klaus; Muller, Erwin; and Holtschmidt, Hans, 3,644,457.
Logemann, Heino; Meckel, Walter; and Muller, Erwin, 3,642,751.
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Ott, Karl-Heinz; Schuster, Herbert; Meckel, Walter; Dinges, Karl; and Muller, Erwin, 3,641,209.
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Wirth, Wolf-Dieter; and Muller, Erwin, 3,674,837.
Witt, Harro; Holtschmidt, Hans; and Muller, Erwin, 3,642,866.
Muller, Erwin; and Thoma, Wilhelm, to Farbenfabriken Bayer Aktiengesellschaft. Elastomeric polyurethanes from polycarbonates. 3,639,354, 2-1-72, Cl. 260-77.5.
Muller, Erwin; and Heydkamp, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Hydrazine-carboxylic acid esters and process for the production thereof. 3,663,603, 5-16-72, Cl. 260-482.
Muller, Erwin; and Bettini, Dino, to Siemens Aktiengesellschaft. Wiper and slip ring assembly. 3,671,791, 6-20-72, Cl. 310-219.000.
Muller, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of O-acyl-N-methylol-amide. 3,703,540, 11-21-72, Cl. 260-490.000.
Muller, Friedrich, to Aristo-Werke Dennert & Pape KG. Gear having a detachable plastic rim. 3,651,708, 3-28-72, Cl. 74-447.
Muller, Fritz: *See—*
Credner, Hans-Heinrich; Glockner, Hans; Muller, Fritz; and Kunitz, Friedrich Wilhelm, 3,658,537.
Muller, Fritz; Stendenbach, Karl-Heinz; and Weizenkorn, Horst-Heinrich. Process and apparatus for use in the work-up of waste water containing phosphorus sludge. 3,684,461, 8-15-72, Cl. 23-293.00r.
Muller, Frohmut: *See—*
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Muller, Georg, Kugellagerfabrik K.G.: *See—*
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Muller, George H.: *See—*
Barton, David W.; and Muller, George H., 3,638,985.
Muller, Georges; and Bardoneschi, Roland, to Roussel-UCLAF. 1-Oxa-A-nor-steroids. 3,676,461, 7-11-72, Cl. 260-343.300.
Muller, Gerd: *See—*
Kugler, Manfred; Muller, Gerd; and Schwarz, Gunter, 3,637,193.
Muller, Gerhard: *See—*
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Sohlemann, Just; and Muller, Gerhard, 3,681,961.
Muller, Gerhard, to Metzeler AG. Method of producing rectangular cross-sectional-polyurethane foam materials. 3,632,706, 1-4-72, Cl. 264-51.
Muller, Guenther: *See—*
Hunger, Alfred; and Muller, Guenther, 3,651,205.
Muller, Hans: *See—*
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Muller, Hans, to Grapha Maschinenfabrik Hans Muller AG. Apparatus for loading sheets on a conveyor. 3,661,380, 5-9-72, Cl. 271-14.000.
Muller, Hans, to Grapha Maschinenfabrik Hans Muller AG. Variable speed drive mechanism. 3,690,208, 9-12-72, Cl. 83-643.000.
Muller, Hans. Device for separating foam into its constituent liquid and gaseous phases. 3,693,325, 9-26-72, Cl. 55-178.000.
Muller, Hans, Dr., Ing., Chemie-Apparatebau: *See—*
Guazzone, Bruno, 3,693,803.
Muller, Hans Joachim; and Bruckner, Horst, to Erdolchemile Gesellschaft mit beschrankter Haftung. Process for the purification of pyrolytic gas mixtures. 3,707,065, 12-26-72, Cl. 55-32.000.
Muller, Hans-Jorg, to Linde Aktiengesellschaft. Piston assembly for pumps, motors and the like. 3,656,414, 4-18-72, Cl. 92-249.
Muller, Heinz: *See—*
Sennewald, Kurt; Wesselmann, Rudolf; Holler, Ernst; and Muller, Heinz, 3,702,887.
Muller, Heinz K., to Sealol, Inc. Barrier seal with self regulating buffer. 3,659,860, 5-2-72, Cl. 277-59.000.
Muller, Heinz-Dieter, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Flight control circuit for missile spinning about its longitudinal axis. 3,647,162, 3-7-72, Cl. 244-3.2.
Muller, Helmut, to Voith Getriebe KG. Dual-engine vehicle and method of operating the same. 3,645,351, 2-29-72, Cl. 180-54.
Muller, Helmut; and Pistl, Gustav, to Voith Getriebe KG. Hydrodynamic reversing gear. 3,677,004, 7-18-72, Cl. 60-54.000.
Muller, Hendrikus Gerhardus. Apparatus for shelling shrimps. 3,691,591, 9-19-72, Cl. 17-73.000.
Muller, Henrik. Method for centralizing the functions of single current-double current converter circuits in centrally controlled teleprinter dial switching. 3,684,822, 8-15-72, Cl. 178-4.10r.
Muller, Henry, to Bio/Data Corporation. Apparatus for monitoring body temperature and controlling a heating device to maintain a selected temperature. 3,667,476, 6-6-72, Cl. 128-399.000.
Muller, Herbert Ewald: *See—*
Merk, Fritz; Debus, Gerhard; and Muller, Herbert Ewald, 3,645,823.
Muller, Hermann: *See—*
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Muller, Hermann. Supporting column. 3,698,564, 10-17-72, Cl. 211-86.000.
Muller, Hermann E., Dr., Metallwarenfabrik Bergneustadt GmbH: *See—*
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Muller, Horst: *See—*
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Muller, Jacques. Filtering and aerating jet breaker. 3,679,054, 7-25-72, Cl. 210-95.000.
Muller, Jacques. Automatic water draining device for fuel filter. 3,685,655, 8-22-72, Cl. 210-114.000.
Muller, Jakob. Needle loom for pile fabrics. 3,707,171, 12-26-72, Cl. 139-25.000.
Muller, Jean Jacques, to International Standard Electric Corporation. Normally silent mobile radio telephone system. 3,688,195, 8-29-72, Cl. 325-55.000.
Muller, Jean-Claude: *See—*
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Muller, Jean-Nicolas: *See—*
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Muller, Johannes; and Gaudry, Edouard, to Handtmann, A. cell pump, particularly for sausage filling machines. 3,631,565, 1-4-72, Cl. 17-37.
Muller, Johannes, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Molten salt carburizing process and replenishing salt for same. 3,635,768, 1-18-72, Cl. 148-15.5.
Muller, John T., to Leslie Co. Storage type hot water heating system. 3,670,807, 6-20-72, Cl. 165-39.000.
Muller, John Thomas; Scull, William L.; Cooper, James H.; and Soderberg, Curt A., to Leslie Co. Blending valve. 3,642,021, 2-15-72, Cl. 137-114.
Muller, Jurgen: *See—*
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Muller, Karl: *See—*
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Muller, Karl. Loading device for processing machines. 3,659,693, 5-2-72, Cl. 198-20.
Muller, Karl, to Braun Aktiengesellschaft. Circuit arrangement for improving the signal-to-noise ratio of a stereo decoder. 3,673,342, 6-27-72, Cl. 179-15.0bt.
Muller, Karl-Hans; and Kallrath, Gottfried, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Animal feed composition including milk exchange material. 3,632,352, 1-4-72, Cl. 99-2.
Muller, Karl-Hans, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for converting liquid antioxidants to pulverlent form. 3,644,215, 2-22-72, Cl. 252-404.
Muller, Karl-Heinz: *See—*
Forschner, Friedrich; Kurzhals, Hans; and Muller, Karl-Heinz, 3,661,480.
Muller, Karl-Heinz; Rohr, Harry; and Ott, Karl-Heinz, to Bayer Aktiengesellschaft. Pencil having a formed ABS polymer barrel. 3,704,071, 11-28-72, Cl. 401-96.000.
Muller, Klaus: *See—*
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Muller, Klaus-Dieter: *See—*
Scherep, Otto; Millauer, Hans; and Muller, Klaus-Dieter, 3,684,796.
Muller, Leslie Dyne; Sayles, Charles Philip; and Mozley, Richard Henry. Gravity separation of granular materials. 3,674,144, 7-4-72, Cl. 209-468.000.
Muller, Manfred, to Agfa-Gevaert Aktiengesellschaft. Delayed shutter release mechanism for photographic apparatus. 3,665,833, 5-30-72, Cl. 95-53.300.
Muller, Marcel: *See—*
Eder, Ulrich; Berndt, Hans-Detlef; Kerb, Ulrich; Wiechert, Rudolf; Zollner, Georg; Buchschacher, Paul; Furlenmeier, Andre; Furst, Andor; and Muller, Marcel, 3,661,897.
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Muller, Meinhard: *See—*
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Muller, Michael, to Babcock Electronics Corporation. Compact electromagnetic relay. 3,694,777, 9-26-72, Cl. 335-128.000.
Muller, Paul: *See—*
Schmidt, Andreas; and Muller, Paul, 3,677,587.
Muller, Paul Adolf, to Celfil Company Establishment. Method and apparatus for producing a tobacco filter rod or cord from a web of fibrous material. 3,646,855, 3-7-72, Cl. 93-1.
Muller, Paul C.; and Schneider, Karl H., to Messrs. Paul Troester Maschinenbau. Method and apparatus for dielectric heating. 3,666,905, 5-30-72, Cl. 219-10.55.

Muller, Peter: *See*—
Furst, Andor; Muller, Marcel; and Muller, Peter, 3,642,839.
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Scheidweiler, Andreas; Muller, Peter; and Kuhn, Max, 3,681,603.

Muller, Pierre, to Laboratories de L'Ozothine. Process for the accelerated obtaining of terpenic oxides using ultraviolet light. 3,673,066, 6-27-72, Cl. 204-162.00r.

Muller, Reiner; and Achelpohl, Fritz, to Windmoller & Holscher. Pocket valve for valved bags made of plastics material sheeting and having crossed end closures. 3,680,770, 8-1-72, Cl. 229-62.500.

Muller, Richard: *See*—
Mott, Ludwig; Muller, Richard; Dinges, Karl; and Krauss, Heinz-Walter, 3,696,063.

Muller, Richard; Frey, Hans; and Dathe, Christian, to Institut fur Silikon-und Fluorkarbon-Chemie. Process for the alkylation, alkenylation or arylation of heavy-metal salts by means of organo-triptych-siloxazolidines. 3,641,082, 2-8-72, Cl. 260-431.

Muller, Richard; and Neef, Hiltraud, to Institut fur Silikon- und Fluorkarbon-Chemie. Alkylsiloxy-cyano-alkyl compounds and process for preparing the same. 3,658,868, 4-25-72, Cl. 260-448.8.

Muller, Richard A.: *See*—
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Muller, Rienk J., to Munsingwear, Inc. Knitting machine. 3,662,571, 5-16-72, Cl. 66-7.000.

Muller, Roman, to Gebruder Buhler AG. Grain cleaning machine. 3,675,697, 7-11-72, Cl. 146-253.000.

Muller, Rudolf: *See*—
Simm, Walter; and Muller, Rudolf, 3,673,598.
Uerlichs, Johannes; and Muller, Rudolf, 3,695,286.

Muller, Rudolf; Schinke, Heinz Joachim; and Raible, Hermann, to Math. Bauerle GmbH. Sheet feeding mechanism for a small duplicating machine. 3,649,003, 3-14-72, Cl. 271-36.

Muller, Rudolf. Electrophotographic copying machine. 3,687,544, 8-29-72, Cl. 355-57.000.

Muller, Rudolf, to Agfa-Gevaert Aktiengesellschaft. Rotary planographic printing press. 3,698,312, 10-17-72, Cl. 101-142.000.

Muller, Theo; and Feller, Otto, to Goetzewerke Friedrich Goetze A.G. Cantilevered machine part. 3,663,116, 5-16-72, Cl. 408-143.000.

Muller, Thomas C.; Nelson, Lawrence B.; and Bluestein, Bernard R., to Witco Chemical Corporation. Production of long chain amines by reacting monoethanolamine, monoisopropanolamine and/or ethylenediamine with long chain straight chain secondary chlorides. ,657,347, 4-18-72, Cl. 260-583.

Muller, Thomas E.: *See*—
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Muller, Unna Wolfgang: *See*—
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Muller, Walter: *See*—
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Muller, Walter, to Transformatoren Union Aktiengesellschaft. Choke. 3,691,492, 9-12-72, Cl. 336-60.000.

Muller, Willy: *See*—
Muller, Willy; Wurm, Bruno; and Haag, Hermann, 3,673,332.

Muller, Willy; and Robra, Helmut, to Schloemann Aktiengesellschaft. Ring-forging press. 3,670,557, 6-20-72, Cl. 72-421.000.

Muller, Willy; Wurm, Bruno; and Haag, Hermann, to Muller, Willy. Telephone answering devices. 3,673,332, 6-27-72, Cl. 179-6.00e.

Muller, Willy, to Schloemann Aktiengesellschaft. Means for forging large shell rings E. G. for boiler shells. 3,695,079, 10-3-72, Cl. 72-208.000.

Muller, Wolf F., to United States Catheter & Instrument Corporation. Extensible catheter. 3,631,848, 1-4-72, Cl. 128-2.05.

Muller, Yorck: *See*—
Kannamuller, Gerhard; Kosziech, Karl-Heinz; Goller, Werner; Kugler, Walter; and Muller, Yorck, 3,637,322.

Muller-Bardorff, Wolfgang: *See*—
von Konig, Anita; Moll, Franz; Muller-Bardorff, Wolfgang; and Saleck, Wilhelm, 3,640,719.

Muller-Berner, Alfred Harmann, to Daimler-Benz Aktiengesellschaft. Drive unit with slip indicator for motor vehicles. 3,680,370, 8-1-72, Cl. 73-118.000.

Muller-Berner, Alfred Hermann, to Daimler-Benz Aktiengesellschaft. Installation for controlling a combustion engine. 3,682,152, 8-8-72, Cl. 123-140.0mc.

Muller-Calgan, Helmut: *See*—
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Muller-Lindemann, Dieter: *See*—
Arens, Egidius; Muller-Lindemann, Dieter; and Triebold, Karl-Friedrich, 3,705,334.

Muller-Welt, Hans, to Amtlicke Forschungs-und Materialprufungsanstalt fur das Bauwesen, Otto-Graf-Institut an der Universitat Stuttgart. Method and apparatus for working soil samples. 3,643,512, 2-22-72, Cl. 73-432.

Muller-Westerhoff, Ulrich: *See*—
Hafner, Klaus; and Muller-Westerhoff, Ulrich, 3,658,793.

Mullersman, Ferdinand H.; and Rockey, Robert E., to General Electric Company. Polarity-mated rechargeable battery and charging unit. 3,665,285, 5-23-72, Cl. 320-2.

Mullery, Alvin P.; and Zurcher, Frank W., Jr., to International Business Machines Corporation. Program scheduler for processing systems. 3,648,253, 3-7-72, Cl. 340-172.5.

Mullet, Sidney George: *See*—
Wyatt, James Andrew Stewart; Chapman, Clifford Victor Gascoyne; Solt, George Stefan; and Mullet, Sidney George, 3,679,059.

Mulligan, William: *See*—
Jennings, Francis W.; Mulligan, William; Urquart, George M.; McIntyre, William I.; and Jarrett, William F. H., 3,657,415.

Mulligan, William L., to Parks-Cramer Company. Remote crane motor control with variable direction and speed of movement. 3,675,097, 7-4-72, Cl. 318-17.000.

Mulligan, William R. Magnetic sex-denoting ornament which attracts or repells respective similar ornaments denoting unlike or like sex. 3,670,525, 6-20-72, Cl. 63-23.000.

Mullin, Francis Joseph; and Ramsey, Raymond Bolton, to Bell Telephone Laboratories, Incorporated. Serving area connector. 3,660,613, 5-2-72, Cl. 179-98.

Mullin, William F., to Mallory, P. R., & Co., Inc. Multiple-condition automotive alarm system. 3,641,488, 2-8-72, Cl. 340-52.

Mullins, Albert A., to Schlumberger Technology Corporation. Drillable slip. 3,687,196, 8-29-72, Cl. 166-217.000.

Mullins, Barry W.: *See*—
Gove, Donald C.; Mullins, Barry W.; and Rousseau, Edmund G., 3,660,838.

Mullins, Darrell Dexter: *See*—
D'Amico, John Joseph; and Mullins, Darrell Dexter, 3,642,804.

Mullins, Darrell Dexter, to Monsanto Company. Piperazino methyl 1,3 diaryl guandines. 3,646,029, 2-29-72, Cl. 260-268.

Mullins, Donald L., to Sanderson Films, Inc. Loose leaf ring binder. 3,638,967, 2-1-72, Cl. 281-33.

Mullins, John W. Line clamping self-tapping service valve. 3,661,169, 5-9-72, Cl. 137-318.

Mulph, Robert John: *See*—
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Mulread, Richard C.; and Pinsley, Edward A., to United Aircraft Corporation. Stray radiation suppression device. 3,699,471, 10-17-72, Cl. 331-94.500.

Multi-Amp Corporation: *See*—
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Multi-Elmac Company: *See*—
Barlow, Edson L., Jr., 3,646,560.

Multi-Line Pen Company Incorporated: *See*—
Rogers, Murray K., 3,631,599.
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Multi-Minerals Limited: *See*—
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Multi-Photo Camera Corporation: *See*—
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Multicraft, Incorporated: *See*—
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Multiculp Automation Company: *See*—
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Multifastener Company: *See*—
Keough, William R., 3,645,802.
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Multifastener Corporation: *See*—
Steward, John H., 3,648,747.

Multra-Guard, Inc.: *See*—
Dan, Carlo; and Pinkham, James F., 3,678,509.
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Mulvaney, Charles S. Process and apparatus for mining by retreat reaming. 3,642,325, 2-15-72, Cl. 299-18.

Mulvaney, James M.: *See*—
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Mulvey Dennis M.: *See*—
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Mulvey, Gerard Edmund. Air handling ceiling channel structure. 3,636,340, 1-18-72, Cl. 240-9.

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Mulwhiteson Development Company: *See*—
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Mumford, George V. Child resistant closure. 3,692,199, 9-19-72, Cl. 215-9.000.
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Munach, Arnold S., to United States of America, Navy. Velocity discriminating time mechanical ordnance fuze. 3,677,186, 7-18-72, Cl. 102-83.000.
Munakata, Hideaki; Watanabe, Kazuo; Osako, Akitada; and Urakabe, Rintaro, to Toyo Boseki Kabushiki Kaisha (Toyo Shinning Co., Ltd.). Process for preparing N,N-bis-cyanoethylated derivatives of aliphatic primary amine branched at the α-position. 3,660,460, 5-2-72, Cl. 260-464.
Munakata, Katsura. Method for synthesizing fish-killing substances and fish killers. 3,704,247, 11-28-72, Cl. 260-340.500.
Munakata, Tomohiko: *See—*
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Munawwar, Sheikh Mohammad, to Compac Corporation. Flame retardant fire barrier composition and laminant. 3,694,305, 9-26-72, Cl. 161-205.000.
Munby, Harry, to Lucas, Joseph, (Industries) Limited. Igniter arrangement for a gas turbine engine. 3,690,096, 9-12-72, Cl. 60-38.82p.
Munch, Gerhard; and Jager, Albert, to Messer Griesheim GmbH. Apparatus for flame scarfing the surfaces of crude blocks, billets, ingots and similar workpieces. 3,695,600, 10-3-72, Cl. 266-23.00h.
Munch, Hans Joachim, to Buss A.G. Process and device for the purification of a mixture of organic substances of high molecular weight. 3,697,387, 10-10-72, Cl. 203-72.000.
Munch, Josef, to Bock, Otto, Orthopadische Industrie KG., Firma. Mattress for invalids. 3,639,927, 2-8-72, Cl. 5-91.
Munch, Otto R.: *See—*
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Munch, Otto R., to Johnson Service Company. Supply connection means for bleed type sensing apparatus. 3,699,991, 10-24-72, Cl. 137-82.000.
Munch, Peter: *See—*
Kandler, Joachim; Dany, Franz-Josef; Komorniczyk, Klaus; and Munch, Peter, 3,705,865.
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Munchbach, Curt, to Ungerer, Trma. Sheet and strip flattening machine. 3,704,615, 12-5-72, Cl. 72-165.000.
Munchel, Eugene A.; and Thornton, Henry M., to Ashcombe Products Company. Cleaning attachment for elevated spray device. 3,679,319, 7-25-72, Cl. 401-138.000.
Muncie Parts Mfg. Co., Inc.: *See—*
Snyder, David M., 3,682,197.
Mund, Heinrich: *See—*
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Mund, Konrad; and Schulte, Rolf-Winfried. Method of producing a tungsten carbide containing electrode for fuel elements. 3,684,579, 8-15-72, Cl. 136-120.0fc.
Munday, Theodore F.: *See—*
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Munding, German; and Zeh, Willi, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Construction of a chamber for cooling hot gases. 3,667,241, 6-6-72, Cl. 62-5.
Mundinger, William D.; and Marsh, Ronald W., to Pullman Incorporated. Pneumatic discharge arrangement for hoppers. 3,675,975, 7-11-72, Cl. 302-52.000.
Mundkur, Balaji, to University of Connecticut. Scanning apparatus for biological microdensitometry. 3,671,754, 6-20-72, Cl. 250-236.000.
Mundlos, Eberhard: *See—*
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Lohe, Konrad; Mohr, Reinhard; Mundlos, Eberhard; and Freb, Hermann, 3,679,358.
Mundt, James E.; and Powell, Milan, to Weatherhead Company, The. Valve stem. 3,669,407, 6-13-72, Cl. 251-334.000.
Mundt, James E., to Weatherhead Company, The. Hose coupling. 3,698,745, 10-17-72, Cl. 285-256.000.
Mundt, Trexie I., 1/2 to O'Dell, Sterling L. Protective garment. 3,693,189, 9-26-72, Cl. 2-47.000.
Mundus, Friedhelm: *See—*
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Mundus, Friedhelm, to Windmoller & Holscher. Bag-making machines for making plastics side-fold bags with carrier handles. 3,640,187, 2-8-72, Cl. 93-8.
Mundus, Friedhelm, to Windmoller & Holscher. Intermittent feeding apparatus for a web of paper or plastics material. 3,650,449, 3-21-72, Cl. 226-142.
Mundy, Arthur; and Sievers, David L., to General Tire & Rubber Company, The. Heavy-duty resilient elastomeric bushing. 3,666,335, 5-30-72, Cl. 308-238.000.
Mundy, Frank Percival, to Pict Limited. Vegetable processing apparatus. 3,703,917, 11-28-72, Cl. 83-2.000.
Mundy, Joseph L.: *See—*
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Mundy, Joseph L., to General Electric Company. High density four-transistor MOS content addressed memory. 3,701,980, 10-31-72, Cl. 340-173.0am.
Mundy, Joseph L., to General Electric Company. Content addressed memory cell with selective bit writing. 3,705,390, 12-5-72, Cl. 340-173.0am.
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Munekata, Keniti: *See—*
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Munekata, Takashi; and Uchida, Eizaburo, to Kureha Kagaku Kogyo Kabushiki Kaisha. Chloro-nitro substituted phenyl esters of aliphatic acids. 3,669,998, 6-13-72, Cl. 260-410.5.
Munger, Donald W.; and Weighart, Frederick G., to Automation Industries, Inc. Ultrasonic inspection apparatus. 3,688,562, 9-5-72, Cl. 73-67.700.
Munguet, Oscar Ferrer. Fluid pressure regulating device. 3,664,366, 5-23-72, Cl. 137-209.
Muniz, Eloy Fernando. Washboard. 3,664,160, 5-23-72, Cl. 68-224.000.
Munk, Edmund: *See—*
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Munk, Edmund E., to Furnier- und Sperrholzwerk J. P. Werz, Jr., K.G. Mold for producing molded elements with parts of different thicknesses from fibrous mixtures. 3,632,276, 1-4-72, Cl. 425-415.
Munk, Friedrich; and Korfer, Gunter, to Junkerather Maschinenbau Gesellschaft mit beschrankter Haftung. Furnace installation particularly for melting gray iron in foundries. 3,702,184, 11-7-72, Cl. 266-13.000.
Munkstrand, Nils Eric, to Aktiebolaget Nohab. Device for limiting the movements of the wicket gates in a water turbine. 3,639,072, 2-1-72, Cl. 415-9.
Munn, Alfred J.: *See—*
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Munn, Alfred John: *See—*
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Munn, Gerald J.: *See—*
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Munnich, Robert F.: *See—*
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Munoz, Enrique, to Entreprises Devars Naudo & Cie. Dismantling key-bolt for a propping-up and supporting framework. 3,632,075, 1-4-72, Cl. 248-354.
Munro, Alan C.: *See—*
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Munro, Robert Gordon; and Hale, Rodney Barker, to Goulder, J., & Sons Limited. Method and apparatus for measuring profile and lead errors in gear teeth. 3,631,603, 1-4-72, Cl. 33-179.5.

Munro, William H. Hydroprocessing of hydrocarbons. 3,694,344, 9-26-72, Cl. 208-108.000.
Munroe, Miles R.: *See—*
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Munson, Donald J., to North Central Manufacturing Corporation. Foldable ironing board. 3,640,230, 2-8-72, Cl. 108-63.
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Munson, Robert V.: *See—*
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Munson, William A., to Westinghouse Electric Corporation. Protective system for basic oxygen furnace lance. 3,647,198, 3-7-72, Cl. 266-34.
Munson, William A., to Westinghouse Electric Corporation. Blast furnace control based on measurement of pressures at spaced points along the height of the furnace. 3,690,632, 9-12-72, Cl. 266-30.000.
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Munting, Johannes Pieter, to Akzona Incorporated. Manufacture of unique polyethylene terephthalate fiber. 3,650,879, 3-21-72, Cl. 161-89.
Muntz, Frank F. Shaver with improved hair setup. 3,673,684, 7-4-72, Cl. 30-34.200.
Muny, Richard P.; and Wilson, David W., to Avery Products Corporation. Curable pressure sensitive adhesive containing a polyepoxide, a carboxylated diene polymer and an acrylic ester tackifier. 3,639,500, 2-1-72, Cl. 260-837.
Munz, Ferdinand; Hack, Helmuth; and Eue, Ludwig, to Farbenfabriken Bayer Aktiengesellschaft. Cycloaliphatic imidozolidine-2-one-1-carboxylic acid amides. 3,686,204, 8-22-72, Cl. 260-309.700.
Munzing, Robert, to Mas, Ernst. Current collector for vehicles of electric toy and model railroad installations. 3,670,115, 6-13-72, Cl. 191-45.00r.
Munzinger, Friedrich. Rotary piston engine. 3,685,928, 8-22-72, Cl. 418-18.000.
Muoio, Erland L., to Johnson, S. C., & Son, Inc. Process for cleaning hard surfaces. 3,681,141, 8-1-72, Cl. 134-41.000.
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Murakami, Masuo; Iwanami, Masaru; Kubo, Kazuo; Sano, Kenji; Kochiya, Masahiro; and Arima, Hideki, to Yamanouchi Pharmaceutical Co., Ltd. 4-Methylcyclohexylhydroxy amine. 3,665,037, 5-23-72, Cl. 260-563.
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Murakami, Masuo; Inukai, Noriyoshi; Koda, Akio; and Nakano, Koji, to Yamanouchi Pharmaceutical Co., Ltd. Processes for the preparation of N-(diethylaminoethyl) -4-amino-5-chloro-2-methoxybenzamide. 3,700,719, 10-24-72, Cl. 260-471.00r.
Murakami, Noboru; and Hirozawa, Koichiro, to Aisin Seiki Kabushiki Kaisha. Fluid pressure control mechanism. 3,672,243, 6-27-72, Cl. 74-753.000.
Murakami, Sakae. Jib crane. 3,651,951, 3-28-72, Cl. 212-17.
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Murakami, Tadao; Kikuchi, Ken; Tomozaki, Riyouzou; and Ohuchi, Yasushi, to Hitachi, Ltd. Electromagnetic clutch. 3,703,227, 11-21-72, Cl. 192-84.00c.
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Murakami, Yoshio; Higashinakagawa, Iwao; Yasuda, Nobuaki; and Takeno, Syozo, to Tokyo Shibaura Electric Co., Ltd. Method for manufacturing magnetic thin film element. 3,671,312, 6-20-72, Cl. 117-212.000.
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Murase, Yoshihiko, to Nippon Gakki Seizo Kabushiki Kaisha. Thermo-plastic laminated structure. 3,674,109, 7-4-72, Cl. 181-32.00r.
Murashige, Hidekichi; and Simakura, Masao, to Kawatetsu Kizai Kogyo Co., Ltd. Oil pressure jack for lifting operation. 3,637,189, 1-25-72, Cl. 254-89.
Murashige, Hidekichi; Simakura, Masao; and Nakazawa, Kazuo, to Kawatetsu Kizai Kogyo Co., Ltd. Lift up process. 3,673,754, 7-4-72, Cl. 52-747.000.
Murashige, Robert H., to Memorex Corporation. Vesicular film. 3,700,480, 10-24-72, Cl. 117-34.000.
Murashkina, Marfa Markovna: *See—*
Nesterovsky, Vsevolod Vladimirovich; Khmelnitsky, Julius Lazarevich; Karzhev, Vladimir Ivanovich; Silchenko, Ekaterina Ivanovna; Goncharova, Nina Vasilievna; Svirina, Valentina Petrovna; Maikova, Margarita Viktorovna; and Murashkina, Marfa Markovna, 3,649,96.
Murata, Eiji; and Ito, Kohuku, to Honeywell Inc. Diaphragm. 3,675,540, 7-11-72, Cl. 92-98.000.
Murata Kaisha Kikai Kabushiki: *See—*
Matsui, Isamu; Nagasawa, Isao; Horiuchi, Tatsuo; Uchida, Hiroshi; and Uehara, Masao, 3,687,382.
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Murata, Kikuzo: *See—*
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Murata, Kingo; and Shinohara, Katsutoshi, to Kabushiki Kaisha Koparu. Recording clock and electrical system. 3,697,770, 10-10-72, Cl. 307-141.400.
Murata, Koichiro: *See—*
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Murata Machinery, Ltd.: *See—*
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Murata, Norio; Takeda, Toshihiko; Sakai, Hirochika; and Matsuda, Nobuyuki, to Hitachi, Ltd. Self-driven carriage. 3,680,653, 8-1-72, Cl. 180-23.000.
Murata, Norio, to Matsushita Electric Industrial Co., Ltd. Physiological signal transmitter for use inside the body. 3,682,160, 8-8-72, Cl. 128-2.00p.
Murata, Rikizo: *See—*
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Murata, Takao: *See—*
Tohma, Wataru; Murata, Takao; Nakamura, Nobutaka; and Kudo, Atsushi, 3,696,622.
Murata, Takao; and Kudo, Atsushi, to Sumitomo Durez Company, Ltd. Foundry sand composition for cores and molds. 3,666,703, 5-30-72, Cl. 260-29.3.
Murata, Tomoji; and Ishihara, Toshiaki, to Minolta Camera Kabushiki Kaisha. Feed control device for a photographic typesetter. 3,668,376, 6-6-72, Cl. 235-151.220.
Murata, Tomoji; and Tanaka, Atsuyuki, to Minolta Camera Kabushiki Kaisha. Device for insuring registration of the picture frame with the printing station in making prints from a film. 3,671,123, 6-20-72, Cl. 355-97.000.
Murata, Toshio; and Yasui, Atsushi, to Hitachi, Ltd. Floating device for submarine working vehicles. 3,633,530, 1-11-72, Cl. 114-16.
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Muratani, Takuro; Ogawa, Akira; and Nosaka, Kunishi, to Kokusai Denshin Denwa Kabushiki Kaisha. Demodulation apparatus for a time-divisional multiplex phase-shift keyed signal of burst mode. 3,676,593, 7-11-72, Cl. 178-66.00a.
Murati, Efrahim. Drainage wall system and method of erecting same. 3,656,268, 4-18-72, Cl. 52-169.
Murato, Kenichi; Takei, Kenji; and Takayama, Masayuki, to Japanese National Railways and Hitachi, Ltd. Controlling system for means for adjusting speeds of freight cars in a yard. 3,646,891, 3-7-72, Cl. 104-26.
Muratore, John B.; and Peterson, Paul E., to General Motors Corporation. Antifriction bearing with a dual control separator. 3,649,093, 3-14-72, Cl. 308-193.
Muratorio, Jorge R., to Celanese Corporation. Process for the production and recovery of N,N-dimethyllaurylamine oxide. 3,636,155, 1-18-72, Cl. 260-583.
Muratorio, Jorge R., to Celanese Corporation. Production of alpha-naphthyl methanesulfonate esters. 3,674,830, 7-4-72, Cl. 260-456.00p.
Murawski, Kurt; Schmucker, Anton; Sensburg, Bernd; and Lanzendorfer, Josef, to Siemens Aktiengesellschaft. Frame arrangement for electronic devices. 3,662,667, 5-16-72, Cl. 98-40.
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Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kuramada, Tomoyuki; Watanabe, Ichiro; and Ohta, Noriyuki, to Sankyo Company Limited. Stabilization of synthetic polymers. 3,640,928, 2-8-72, Cl. 260-23.

Murayama, Keisuke; Morimura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, to Sankyo Company Limited. Stabilization of synthetic polymers with imidazolidine compounds. 3,645,965, 2-29-72, Cl. 260-45.8.

Murayama, Keisuke; Toda, Toshimasa; Yamao, Eiko; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, to Sankyo Company Limited. Γ^3 Piperidone enol ethers and a process for their preparation. 3,663,558, 5-16-72, Cl. 260-297.

Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, to Sankyo Company Limited. Piperidine-spiro-oxirane derivatives. 3,692,778, 9-19-72, Cl. 260-293.660.

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Murayama, Keisuki; Morimura, Syoji; and Toda, Toshimasa, to Sankyo Company Limited. 1,3,8-Triaza-2-oxo or thioxo-3-substituted-4-oxo or imino-7,7,9,9-tetra alkyl spiro[4,5] decanes. 3,639,409, 2-1-72, Cl. 260-293.4.

Murayama, Kouzou: *See—*
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Murcia, Alfonso. Modular shelving and furniture. 3,669,033, 6-13-72, Cl. 108-111.

Murcott, Charles E., to Lumex Inc. Invalid chair having adjustable headrest, seat, and footrest. 3,672,722, 6-27-72, Cl. 297-437.000.

Murcya, Noriyuki: *See—*
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Murday, David A., to Rohr Corporation. Thrust controlling apparatus. 3,647,141, 3-7-72, Cl. 239-265.29.

Murden, Peter: *See—*
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Murdoch, Andrew M., to Automation Industries, Inc. Material tester ultrasonic surface roughness indicator. 3,688,569, 9-5-72, Cl. 73-105.000.

Murdoch, Kenneth E.; and Turner, Donald B., to Moore Dry Kiln Company of Oregon. Lumber bin sorter with guide sling and tiltable bin floor. 3,696,948, 10-10-72, Cl. 214-16.00b.

Murdock, Forrest L., Sr. Separator vessel having multiple parallel separator plates. 3,664,093, 5-23-72, Cl. 55-174.

Murdock, John E., Jr. Golf tee setter-positioner. 3,671,037, 6-20-72, Cl. 273-33.000.

Murdock Machine & Eng. Co.: *See—*
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Murdock, Vollie L.: *See—*
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Murdock, Vollie L.; Leonard, Virgil; Holleman, Benjamin M.; and Harding, John W. Variable length staple cutter. 3,693,487, 9-26-72, Cl. 83-100.000.

Muren, Albert P., Jr.: *See—*
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Murenbeeld, Karel. Device for automatically regulating the thread consumption of warped knitting machines. 3,668,904, 6-13-72, Cl. 66-86.00a.

Muresan, Gheorghe: *See—*
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Murex Welding Processes Limited: *See—*
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Murfitt, Donald; and Peeso, James Bruce, Jr., to American Cyanamid Company. Fabrication of plastic spinnerettes by means of stacked mandrels. 3,687,413, 8-29-72, Cl. 249-160.000.

Murfree, James A., Jr.: *See—*
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Murfree, James A., Jr.; Hubbuch, Theodore N.; Nappier, Henry A.; Duncan, William A.; and Sandlin, Billy J., to United States of America, Army. Gas generator with liquid initiator. 3,667,219, 6-6-72, Cl. 60-39.460.

Murgas, Karl M.; Greenberg, Burton; and Clark, Otto A., to ICP, Inc. Switch control means for a photocopy machine. 3,700,326, 10-24-72, Cl. 355-14.000.

Murgas, Karl M.; and Greenbert, Burton, to ICP, Inc. Switch control means for an electrostatic book copier machine. 3,700,327, 10-24-72, Cl. 355-14.000.

Murgatroyd's Salt and Chemical Company Limited: *See—*
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Murhpy, James A.; and Brown, Stirling Robert, to International Paper Company, mesne. Adhesively laminated cellulosic product. 3,672,950, 6-27-72, Cl. 161-129.000.

Muri, Richard L., to Ludlow Corporation. Flame retardant fire barrier laminate. 3,654,068, 4-4-72, Cl. 161-251.

Muri, Richard L.; and Vere, Thomas D., to Ludlow Corporation. Novel pressure-sensitive transfer sheet. 3,677,817, 7-18-72, Cl. 117-235.000.

Murib, Jawad H.; and Horvitz, David, to National Distillers and Chemical Corporation. Synthesis of aluminum hydride and tertiary amine adducts thereof. 3,642,853, 2-15-72, Cl. 260-448.

Murib, Jawad H., to National Distillers and Chemical Corporation. Process for recovery of soluble alkali metal hydrides from insoluble alkali metal aluminum hexahydrides. 3,649,223, 3-14-72, Cl. 23-365.

Murman, Fernando: *See—*
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Murman, Fernando; Lewis, George E.; Dunn, Allen I.; and O'Brien, Charles E., to Hydril Company. Replacement of sub-sea blow-out preventer packing units. 3,662,823, 5-16-72, Cl. 166-.6.

Murman, Fernando; and Lewis, George E., to Hydril Company. Replaceable bladder pulsation dampener. 3,674,053, 7-4-72, Cl. 138-30.000.

Murman, Fernando; Lewis, George E.; and O'Brien, Charles E., to Hydril Company. Well blowout preventer control pressure modulator. 3,695,349, 10-3-72, Cl. 166-.500.

Muro, Koji: *See—*
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Muroga, Ko; Okuda, Jiro; Shimasaki, Nobuhiko; Terashima, Toshio; Maruyama, Yasushi; Kaneyasu, Hiroshi; Sohma, Kikuya; and Lovell, Clarence A., to Nippon Electric Company, Limited. Automatic telephone system activated by stored programs and including circuis to indicate busy-idle states of system components. 3,649,767, 3-14-72, Cl. 179-18.

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Muroi, Tadashi; Sato, Mikio; and Ogata, Masatzugu, to Hitachi, Ltd. and Hitachi Chemical Company, Ltd. Epoxy resin composition containing metallocenes. 3,705,129, 12-5-72, Cl. 260-47.0ec.

Muroki, Takumi, to Toyo Kogyo Co., Ltd. System for purifying an exhaust gas from an internal combustion engine. 3,648,455, 3-14-72, Cl. 60-30.

Muroki, Takumi; and Hayashida, Motoyuki, to Toyo Kogyo Co., Ltd. Device for purifying the exhaust gas of an internal combustion engine to reduce the nitrogen oxide content. 3,648,672, 3-14-72, Cl. 123-119.

Muroki, Takumi, to Toyo Kogyo Co., Ltd. Exhaust gas purifying device for an internal combustion engine. 3,665,711, 5-30-72, Cl. 60-30.00r.

Murota, George, to Furukawa Electric Company Limited, The. Methods and apparatus for manufacturing pipe-shaped articles from foamed thermoplastic resin. 3,650,868, 3-21-72, Cl. 156-203.

Muroya, Noriyuki: *See—*
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Murphey, Carey E., Jr.; and Sheffield, Bascom C., to Shell Oil Company. Deformation logging apparatus and method. 3,641,678, 2-15-72, Cl. 33-174.

Murphey, Carey E., Jr.; Simon, Theodore Andrew; and Torrest, Robert Steven, to Shell Oil Company. Fluidized sandpacking. 3,692,114, 9-19-72, Cl. 166-278.000.

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Murphey, Daniel F.: *See—*
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Murphey, Richard C., to Mobil Oil Corporation. Secondary air control in catalytic vehicle exhaust purification system. 3,662,540, 5-16-72, Cl. 60-30.

Murphree, Francis J.; and Marrero, Michael T., to United States of America, Navy. Echo simulation means. 3,641,485, 2-8-72, Cl. 340-3.

Murphree, Francis J., to United States of America, Navy. Simulator for continuous frequency modulated sonar. 3,642,999, 2-15-72, Cl. 35-10.4.

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Murphree, Francis J.; and Catano, Paul S., to United States of America, Navy. Submarine propeller cavitation noise simulator. 3,676,802, 7-11-72, Cl. 332-9.00r.

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Murphy, Bernard T., to Bell Telephone Laboratories, Incorporated. Method of fabricating semiconductor devices. 3,649,386, 3-14-72, Cl. 148-187.
Murphy, Charles B.: *See—*
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Murphy, Charles F.; Webber, J. Alan; Kaiser, Gary V.; Van Heyningen, Earle M.; Wright, Ian G.; and Cooper, Robin D. G., to Lilly, Eli, and Company. Reduction of Δ_5-cephalosporin sulfoxides. 3,641,014, 2-8-72, Cl. 260-243.
Murphy, Charles F., to Lilly, Eli, and Company. Method for converting Δ^2 caphalosparin to Δ^3 cephalosparin. 3,705,897, 12-12-72, Cl. 260-233.00c.
Murphy, Clarence R.: *See—*
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Hay, Russell G.; Murphy, Clarence R.; and Walsh, William L., 3,683,037.
Murphy, Clarence R.; Onopchenko, Anatoli; Piatt, John M.; and Seekircher, Richard, to Gulf Research & Development Company. Process for preparing detergent sulfonates. 3,644,499, 2-22-72, Cl. 260-513.
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Murphy, David M. Grain stirring apparatus. 3,693,944, 9-26-72, Cl. 259-114.000.
Murphy, Declan S.; and Charest, Rolland C. H., to Atara Corporation. Quick release mechanism for sewage lagoon aeration guns. 3,672,647, 6-27-72, Cl. 261-121.00r.
Murphy, Donald P., to Hooker Chemical Corporation. Composition and process for stripping paint. 3,663,447, 5-16-72, Cl. 252-156.000.
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Murphy, Edmund, to Cooling Developments Ltd. Air- or gas moving equipment for use with heat exchange- and/or gas-scrubbing apparatus. 3,667,864, 6-6-72, Cl. 417-53.000.
Murphy, Edmund, to Cooling Developments Ltd. Cooling medium-moving devices for gas-liquid contacting apparatus. 3,669,421, 6-13-72, Cl. 261-25.
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Murphy, Harold F. Stationery fastener assembly. 3,660,870, 5-9-72, Cl. 24-67.
Murphy, James A.; and Brown, Stirling Robert, to International Paper Company, mesne. Adhesively laminated creped dinner napkin. 3,673,060, 6-27-72, Cl. 161-126.000.
Murphy, James A., to International Paper Company. Laminated product bonded with colored adhesive. 3,684,641, 8-15-72, Cl. 161-129.000.
Murphy, James A.; Lee, Charles A.; and Spravniks, Eduards, to International Paper Company. Web folding apparatus and method. 3,707,281, 12-26-72, Cl. 270-40.000.
Murphy, James P., to Pitney-Bowes, Inc. Fluorescent lamp idling circuit. 3,679,932, 7-25-72, Cl. 315-106.000.
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Murphy, John C.; and Kues, Henry A., Jr., to United States of America, Navy, mesne. Naphthalene crystal growth in a gel. 3,657,372, 4-18-72, Cl. 260-674.
Murphy, John D. Portable alarm device. 3,696,380, 10-3-72, Cl. 340-283.000.
Murphy, John F., to Hess's of Allentown, Inc. Tape cassette display fixture. 3,644,010, 2-22-72, Cl. 312-135.
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Murphy, John N.; and Bowser, Merle L., to United States of America, Interior. Primary and secondary shunt paths for dissipating an electrical charge. 3,638,035, 1-25-72, Cl. 307-141.
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Murphy, Kevin P.; and Orfeo, Sabatino Robert, to Allied Chemical Corporation. Novel fluorocarbon composition. 3,634,255, 1-11-72, Cl. 252-67.
Murphy, Kevin P.; and Stahl, Richard F., to Allied Chemical Corporation. Process of refrigeration using mixture of SF_6 and $CHClF_2$. 3,642,639, 2-15-72, Cl. 252-67.
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Murphy, Martin J. Metal wall and coping construction with bird guard. 3,634,984, 1-18-72, Cl. 52-101.
Murphy, Milo E., to Murphy Mufflers. Muffler with resilient exterior. 3,688,869, 9-5-72, Cl. 181-40.000.
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Murphy, Peter C.: *See—*
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Murphy, Peter C.; and Lawrence, J. Richard, to Mallory, P. R., & Co., Inc. Tungsten base welding rod, method for making same and novel applications of same. 3,669,656, 6-13-72, Cl. 75-176.000.
Murphy, Preston V., to Thermo Electron Corporation. Method of making an electret. 3,702,493, 11-14-72, Cl. 29-592.000.
Murphy, Robert H., to Wiremold Company, The. Variable buoyancy arrangement. 3,643,449, 2-22-72, Cl. 61-69.

Murphy, Robert H., Jr.; and Goetz, William G. Yardage indicator for hand cart. 3,643,860, 2-22-72, Cl. 235-95.

Murphy, Shields: *See—*
Siegfried, Edward C.; Harwell, Conner J.; and Murphy, Shields, 3,677,687.

Murphy, Stephen D.: *See—*
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Murphy, Thomas, to U.S. Philips Corporation. Photo-cathodes for electronic discharge tubes. 3,666,547, 5-30-72, Cl. 117-201.

Murphy, Thomas V. Crane for extracting horizontally-aligned relatively-long tube bundles. 3,658,191, 4-25-72, Cl. 214-1.

Murphy, Walter T., to Goodrich, B. F., Company, The. Vapor permeable polyurethane adhesive and finish layers in artificial leather. 3,663,351, 5-16-72, Cl. 161-159.000.

Murphy, Walter T.; and Japs, Archie B., to Goodrich, B. F., Company, The. Microporous coatings for textile fabrics from cements of polyurethane in dimethylformamide adjusted to pH range 3 to 6. 3,701,681, 10-31-72, Cl. 117-161.0kp.

Murphy, Willard; and Beam, Norman A., to McGraw-Edison Company. Travel iron with folding handle. 3,672,080, 6-27-72, Cl. 38-90.000.

Murphy, Willard J. Multi-purpose boat fender. 3,693,573, 9-26-72, Cl. 114-219.000.

Murphy, William M.; and Beauchemin, Norman J., to Lodding Engineering Corporation. Doctor cleaning methods and apparatus with scanning suction port. 3,687,730, 8-29-72, Cl. 134-21.000.

Murphy, William S., Jr.; and Bialczak, Edward, to Addressograph-Multigraph Corporation. Two component diazo-type developing process. 3,661,590, 5-9-72, Cl. 96-49.

Murr, William C., to Berkeley Bio-Engineering, Inc. Tonometer probe for digital read-out. 3,677,074, 7-18-72, Cl. 73-80.

Murray, Brian L. Internal pads for rubber footwear. 3,693,270, 9-26-72, Cl. 36-58.500.

Murray, Claire W.: *See—*
Wieschel, John E.; Zanzig, Jerald G.; Czarnecki, Robert M.; and Murray, Claire W., 3,682,336.

Murray, Coyt E.; and Boyter, Walter C., to Impact Plastics, Inc. Balloon control ring. 3,646,746, 3-7-72, Cl. 57-108.

Murray, Coyt E., to Impact Plastics Inc. Lug strap assembly and method of forming same. 3,646,973, 3-7-72, Cl. 139-153.

Murray Curvex Printing Limited: *See—*
James, David Richard, 3,688,695.

Murray, David B.: *See—*
Porter, John H.; and Murray, David B., 3,686,958.

Murray, Donald R.; Van Soest, Cornelius J. M.; and Moulson, Donald C., to Heede International Ltd. Hoist for multi-storied buildings under construction. 3,690,412, 9-12-72, Cl. 187-2.000.

Murray, Donald W.: *See—*
Gilani, Syed S. H.; Murray, Donald W.; and Salva, Juan M., 3,681,242.

Murray, Dudley Charles, to Pains-Wessex Limited. Pyrothechnic devices. 3,654,867, 4-11-72, Cl. 102-37.4.

Murray, Dudley Stuart. Apparatus for the production of tubing. 3,664,783, 5-23-72, Cl. 425-71.

Murray, Edward J.; and Winstrom, Leon O., to Allied Chemical Corporation. Oxidation of cyclohexane. 3,671,588, 6-20-72, Cl. 260-586.00b.

Murray, Edward J.; and Winstrom, Leon O., to Allied Chemical Corporation. Vapor phase conversion of cyclohexane carboxylic acid to cyclohexanone. 3,686,318, 8-22-72, Cl. 260-586.00r.

Murray, Frederick R., to Rolls-Royce Limited. Drive means for the cooling fan of an internal combustion engine. 3,659,567, 5-2-72, Cl. 123-41.120.

Murray, George L., Jr., to North American Rockwell Corporation. Electrostatic spinning head funnel. 3,670,486, 6-20-72, Cl. 57-58.890.

Murray, Gregory J.; and Tarrant, Fred K., to Tarrant Manufacturing Company. Vacuum type debris collector with scraper blade. 3,675,266, 7-11-72, Cl. 15-340.000.

Murray, Gregory J.; and Tarrant, Fred K., Jr., to Tarrant Manufacturing Company. Vacuum machine for street cleaning. 3,676,891, 7-18-72, Cl. 15-346.000.

Murray, Hans E. H., to Aktiebolaget Svenska Kullagerfabriken. Method for manufacturing an axial bearing. 3,659,324, 5-2-72, Cl. 29-149.5.

Murray, Henrik: *See—*
Sandstrom, Unto; Abramson, Nils; Sjolin, Ulf; Murray, Henrik; and Colding, Bertil, 3,662,279.

Murray, Herbert C.: *See—*
Herr, Milton E.; Murray, Herbert C.; and Fonken, Gunther S., 3,649,453.
Herr, Milton E.; Murray, Herbert C.; and Fonken, Gunther S., 3,706,801.

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Murray, James G.: *See—*
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Murray, James H.: *See—*
Hipelius, John W.; and Murray, James H., 3,656,846.

Murray, James J.; and Mueller, Jacob, to Sperry Rand Corporation. Plated wire manufacturing cell. 3,682,185, 8-8-72, Cl. 134-122.000.

Murray, Jerome L. Boating accessory. 3,648,643, 3-14-72, Cl. 115-.5.

Murray, John F., Jr.: *See—*
Grassetti, Davide R.; and Murray, John F., Jr., 3,698,866.

Murray, John J., to Allied Chemical Corporation. Polyfluoroisoalkoxyalkyl isocyanates. 3,657,306, 4-18-72, Cl. 260-453.

Murray, Joseph John; and Pear, Charles B., Jr., to Potter Instrument Company, Inc. Long-wearing magnetic head. 3,665,436, 5-23-72, Cl. 340-174.10f.

Murray, Kermon, to United States of America, Air Force. High strength fluorocarbon elastomer compositions. 3,654,216, 4-4-72, Cl. 260-41.

Murray, Lawrence Aloysius, to RCA Corporation. Method of making complementary insulated gate field effect transistors. 3,700,507, 10-24-72, Cl. 148-187.000.

Murray, Louis Daniel. Projection screens. 3,640,601, 2-8-72, Cl. 350-117.

Murray Machinery, Inc.: *See—*
Lemke, Donald L.; and Ostrander, Ronald D., 3,675,866.

Murray Manufacturing Corporation: *See—*
Kobryner, Herman H., 3,668,591.

Murray, Margaret H.; and Brodhag, Earl E., to Time Incorporated. Satin white process and product. 3,660,131, 5-2-72, Cl. 106-306.

Murray, Maxwell John: *See—*
Tauber, Elisha; and Murray, Maxwell John, 3,640,754.

Murray, Michael Albert: *See—*
Rauch, Francis Clyde; Murray, Michael Albert; and O'Lenick, Richard Vincent, 3,644,142.

Murray, Myles N., to Industrial Electronic Rubber Company. Method of making valve diaphragm. 3,680,187, 8-1-72, Cl. 29-156.70r.

Murray, Norris N.: *See—*
Gaylord, John A.; and Murray, Norris N., 3,648,954.

Murray, Raymond P. Voltage dependent phase switch. 3,656,007, 4-11-72, Cl. 307-262.

Murray, Richard de Hart. Supporting garment. 3,683,909, 8-15-72, Cl. 128-159.000.

Murray, Robert H., to Bethlehem Steel Corporation. Nodule collector. 3,697,134, 10-10-72, Cl. 299-8.000.

Murray, Robert L.: *See—*
Guertin, Robert W.; and Murray, Robert L., 3,664,634.

Murray, Robert Maclay, to AMP Domestic, Inc., mesne. Electrical connector. 3,701,966, 10-31-72, Cl. 339-95.00r.

Murray, Robert T., to TRW Inc. Indicator light assembly. 3,699,328, 10-17-72, Cl. 240-52.100.

Murray, Robert W. Tank filling nozzle with automatic shutoff. 3,651,837, 3-28-72, Cl. 141-128.

Murray, Robert W.; and Story, Paul R., to Bell Telephone Laboratories, Incorporated. Antiozonant rubber compositions. 3,676,394, 7-11-72, Cl. 260-45.90r.

Murray, Robert William; and Hoffman, Joseph Adrian, to American Cyanamid Company. Thiobis phenol-nickel (II) alkanolamine complexes and use in polymers. 3,636,023, 1-18-72, Cl. 260-439.

Murray, Robert William; and Savides, Christos, to American Cyanamid Company. Ammonium poly phosphate-phosphonium bromide combinations as flame-retardants for propylene polymers. 3,649,591, 3-14-72, Cl. 269-41.

Murray, Robert William; and Savides, Christos, to American Cyanamid Company. Tertiary phosphine oxide-ammonium polyphosphate combinations as flame-retardants for propylene polymers. 3,663,502, 5-16-72, Cl. 260-41.000.

Murray, Robert William, to American Cyanamid Company. Combinations of phosphonium bromides and brominated aromatic compounds as flame-retardant compositions for olefin polymers. 3,699,077, 10-17-72, Cl. 260-45.90r.

Murray, Robert William, to American Cyanamid Company. Flame-retarded polymer compositions. 3,700,626, 10-24-72, Cl. 260-45.80r.

Murray, Roger W.: *See—*
Welty, Joseph M.; Shiota, Philip; and Murray, Roger W., 3,636,619.

Murray, Ronald D.: *See—*
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Murray, Ronald E.: *See—*
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Murray, Ross: *See—*
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Murray, Russell; and Gignoux, Dominique, to Columbia Research Corporation. Method for detecting pinhole defects in foil material. 3,700,909, 10-24-72, Cl. 250-219.0df.

Murray, Srobert Malcolm Stuart: *See—*
Pitches, Brian Edward; and Murray, Srobert Malcolm Stuart, 3,665,760.

Murray, William: *See—*

Walker, Gordon Richard; and Murray, William, 3,658,092.
Murray, William Bruce. Corrosion inhibiting method. 3,669,615, 6-13-72, Cl. 21-2.7.
Murray, William Bruce; Kise, Mearl A.; and Kelly, Thomas Edward, to Virginia Chemicals Inc. Corrosion inhibiting compositions and method. 3,669,616, 6-13-72, Cl. 21-2.700.
Murray, William Bruce. Corrosion inhibitor composition containing zinc, sulfamate, and phosphate ions. 3,669,901, 6-13-72, Cl. 252-387.000.
Murray, William Kirby, to Tri-State Oil Tool Industries, Inc. Section milling tool. 3,684,009, 8-15-72, Cl. 166-55.800.
Murray, William, Sr.: *See—*
Cruickshank, David Graham; Epperson, James Philbert; Murray, William, Sr.; and Wydro, Richard Allen, Sr., 3,632,955.
Murray-Way Corporation: *See—*
Przygocki, Witold C., 3,665,650.
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Murrell, Donald K.: *See—*
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Murrell, Thomas A.: *See—*
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Murry, Edward J.; and Mitchell, Charles, to Gulton Industries, Inc. Sonically operated tool and sonic motor therefor. 3,681,627, 8-1-72, Cl. 310-8.700.
Murtha, Irene. Hair dyeing aid. 3,662,767, 5-16-72, Cl. 132-9.
Murthy, Nanjundiah N., to Pitney Bowes-Alpex, Inc. Data processing system employing particular bar code configuration. 3,700,858, 10-24-72, Cl. 235-61.11e.
Murthy, Yelahanka K. S.: *See—*
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Murtin, Fernand R. C.; and Storey, Owen, to Societe Industrielle Electronique et d'Informatique. Frequency-spectrum analyzer with FFT computer. 3,634,760, 1-11-72, Cl. 324-77.
Murtland, James B., Jr.: *See—*
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Murtland, James B., Jr., to Allegheny Ludlum Industries, Inc. Rolling mill control system. 3,636,743, 1-25-72, Cl. 72-9.
Murumets, Kirill Vladimirovich: *See—*
Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.
Muryoi, Takeshi, to Nippon Kogaku K.K. Stop device for a shiftable objective lens. 3,657,989, 4-25-72, Cl. 95-64.
Muryoi, Takeshi, to Nippon Kogaku K.K. Shiftable objective lens. 3,672,287, 6-27-72, Cl. 95-64.00r.
Musa, Fuad H., to Motorola, Inc. Stabilized complementary micropower square wave oscillator. 3,676,801, 7-11-72, Cl. 331-116.00r.
Musa, Raiq S., to Westinghouse Electric Corporation. Disposer splash guard. 3,693,892, 9-26-72, Cl. 241-100.500.
Musashi, Akira: *See—*
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Muscatell, Francis L.: *See—*
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Musch, Gordon F.: *See—*
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Muschaweck, Roman: *See—*
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Muschell, James E. Removable pier construction. 3,686,876, 8-29-72, Cl. 61-48.000.
Muschong, Peter W., to Central Transformer, Inc. Bushing protective guard. 3,639,678, 2-1-72, Cl. 174-145.
Muschong, Peter W., to Central Moloney Inc. Transformer core and coil mounting frame. 3,662,308, 5-9-72, Cl. 336-210.
Muse, Everett W.: *See—*
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Muse, George B. Variable wall structure. 3,693,307, 9-26-72, Cl. 52-438.000.
Muse, George H.; and Keane, Peter J., to Erie Tool Works. Pipe cutter. 3,639,980, 2-8-72, Cl. 30-102.
Muse, Kenneth K. Taco shell jig. 3,705,042, 12-5-72, Cl. 99-426.000.
Muselik, Miloslav, to Adamovske Strojirny, narodni podnik. Clamping apparatus for offset cylinders. 3,685,445, 8-22-72, Cl. 101-415.100.
Musgen, Bruno: *See—*
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Musgrave, Albert W., to Mobil Oil Corporation. Corrections for seismic data obtained from expanding-spread. 3,697,939, 10-10-72, Cl. 340-15.5td.
Musgrave, Daniel D. Ballistic cutting implement. 3,657,835, 4-25-72, Cl. 42-90.000.
Musgrave, Ray D., to Western Printing Machinery Co. Doctor blade oscillatable between plate cylinder and ink transfer roll. 3,678,849, 7-25-72, Cl. 101-157.000.
Musgrove, Bryan H. Automotive jack. 3,645,501, 2-29-72, Cl. 254-126.
Musgrove, John. Internal comb softening means for beehives. 3,683,432, 8-15-72, Cl. 6-2.000.
Mushrush, Wilson G.: *See—*
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Mushrush, Wilson G.; a/b/a Magic Flow: *See—*
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MusiConics International, Inc.: *See—*
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Musketa, Alfred, to Klockner-Humboldt-Deutz Aktiengesellschaft. Seal for reciprocating machine elements. 3,661,479, 5-9-72, Cl. 417-437.
Muskovac, Nicolas G., to Vectrol, Inc. Ramp generator and variable duty-cycle switching circuit. 3,660,686, 5-2-72, Cl. 307-252.00n.
Muskulus, Willi: *See—*
Kramer, Willi; and Muskulus, Willi, 3,687,303.
Muskulus, Willi. Apparatus for assembling coils onto stators of electric machines and the like. 3,691,606, 9-19-72, Cl. 29-205.00d.
Musliner, Walter J.: *See—*
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Musliner, Walter J., to Eastman Kodak Company. Process for forming dye images. 3,676,135, 7-11-72, Cl. 96-54.000.
Musschoot, Albert, to General Kinematics Corporation. Drive structure for use with vibratory devices. 3,677,395, 7-18-72, Cl. 198-220.0da.
Musschoot, Albert, to General Kinematics Corporation. Support structure for use with vibratory devices. 3,706,372, 12-19-72, Cl. 198-218.000.
Mussehl, Clifford L., to SPECO, Inc. Fluid spray apparatus. 3,653,599, 4-4-72, Cl. 239-273.
Musselman, Frank L.: *See—*
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Musser, Clair O. Percussion musical instrument and tone bar therefor. 3,633,453, 1-11-72, Cl. 84-403.
Musser, Frederick M.: *See—*
Shenfeld, Richard S.; Musser, Frederick M.; and Kothari, Girish U., 3,644,252.
Musser, Malcolm E. Unload, check, and bag apparatus for supermarkets. 3,678,660, 7-25-72, Cl. 53-255.000.
Musser, Malcolm E. Bag holder and opening apparatus. 3,679,096, 7-25-72, Cl. 221-56.000.
Mussgay, Manfred: *See—*
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Mussinan, Cynthia; Giacino, Christopher; and Katz, Ira, to International Flavors & Fragrances Inc. Cycloalkyl mercaptan compositions and processes therefor. 3,677,772, 7-18-72, Cl. 99-140.
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Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.

Mustakas, Gus C.; Albrecht, William J.; and Bookwalter, George N., to United States of America, Agriculture. Production of vegetable protein beverage base. 3,639,129, 2-1-72, Cl. 99-64.

Mustaklem, Isa Christopher: *See*—
Darsi, Chandrasekhara Rao; Feick, John Edwin; and Mustaklem, Isa Christopher, 3,692,831.

Mustert, Rudolf. Method and apparatus for examining intaglio printing. 3,634,012, 1-11-72, Cl. 356-71.

Mustert, Rudolf, to Landis & Gyr AG. Apparatus for optically testing the genuineness of bank notes and other tokens of value. 3,679,314, 7-25-72, Cl. 356-71.000.

Mustoe, Robert M.: *See*—
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Musyt, William; and Tremelin, James D. Flexible fabric container and method of making same. 3,703,201, 11-21-72, Cl. 150-.500.

Muszumanski, Trude; and Kurz, Gunter, to Vockenhuber, Karl and Hauser, Raimund. Pancratic projection lens. 3,694,056, 9-26-72, Cl. 350-184.000.

Mutaffis, Thomas D.; Katz, Leon; and Grosser, Frederick, to General Aniline & Film Corporation. Dispersants for organic solvent systems. 3,660,349, 5-2-72, Cl. 260-41.

Mutalipassi, Ettor: *See*—
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Mutch, Robert Douglas, to Dominion Bridge Company Limited. Ingot and mold handling tongs. 3,674,302, 7-4-72, Cl. 294-118.000.

Mutchler, John Powell, to Atlas Chemical Industries, Inc. Corrosion inhibitors for oil media. 3,639,240, 2-1-72, Cl. 252-52.

Muter, Bryce A.: *See*—
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Muter, Richard B.; and Lawrence, William F., to United States of America, Interior. Utilization of coal-burning power plant by-products. 3,642,445, 2-15-72, Cl. 23-25.

Muth, Karl: *See*—
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Muto, Hidehiko, to Gakken Co., Ltd. Water toy. 3,634,968, 1-18-72, Cl. 46-243.

Muto, Iwao; Matsumura, Yutaka; Nishifjui, Katsuyuki; and Matsuura, Kenji, to Nippon Kokan Kabushiki Kaisha. Holding and follow-up mechanism for ultrasonic flaw detector. 3,670,562, 6-20-72, Cl. 73-71.500.

Muto, Katsutoshi: *See*—
Awazu, Kenzo; Matsunaga, Kazu; Muto, Katsutoshi; Kai, Junjiro; and Oi, Kyoko, 3,673,103.

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Muto, Masataro: *See*—
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Muto, Masataro; Yagasaki, Masaaki; and Hosumi, Ken, to Mitsubishi Jukogyo Kabushiki Kaisha. Sheet material pressing device. 3,633,896, 1-11-72, Cl. 266-23.

Muto, Masataro; and Yagasaki, Masaaki, to Mitsubishi Jukogyo Kabushiki Kaisha. Work piece pressing device in automatic stack gas cutting. 3,648,993, 3-14-72, Cl. 266-23.

Muto, Takeo: *See*—
Tanaka, Kazuo; Kanayama, Toshihiko; Yasuda, Tetuya; Tutiya, Hidetaka; Kikuchi, Yoshio; and Muto, Takeo, 3,659,413.

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Mutoh, Norio: *See*—
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Mutrux, Jean L. Amphibious helicopter type aircraft. 3,640,485, 2-8-72, Cl. 244-12.

Mutsch, Edward L.: *See*—
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Fridinger, Tomas L.; and Mutsch, Edward L., 3,681,386.

Mutschler, Edward Charles, to Xerox Corporation. Programmable tone dispenser. 3,659,556, 5-2-72, Cl. 118-637.

Mutschler, Otto. Ink flow control in a fountain pen. 3,645,636, 2-29-72, Cl. 401-227.

Mutsuhide, Matsuda: *See*—
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Mutter, William W., to Bulova Watch Company, Inc. Miniaturized battery-operated tuning-fork timepiece. 3,672,153, 6-27-72, Cl. 58-23.0tf.

Muttera, William H., Jr.: *See*—
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Muzhits, Vitold Iosifovich: *See*—
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Muzyczko, Thaddeus M.; Shore, Samuel; and Loboda, Jon A., to Richardson Company, The. Detergent compositions. 3,687,870, 8-29-72, Cl. 252-545.000.

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Myer, Clifford E., to Xercon, Inc., mesne. Light-responsive switching circuit. 3,676,685, 7-11-72, Cl. 250-206.000.

Myer, David: *See*—
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Myer, Jon H., to Hughes Aircraft Company. Rotor balancer. 3,663,795, 5-16-72, Cl. 219-121.

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Myer, Jon H.; O'Mera, Thomas R.; and Richardson, John M., to Hughes Aircraft Company. Code reading system for identification of moving and stationary objects utilizing noncoherent optics. 3,700,907, 10-24-72, Cl. 250-219.00d.
Myer Show Print, Inc.: *See—*
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Myers, Albert F., to Boise Cascade Corporation. Pinion differential mechanism having internal bias torque. 3,706,239, 12-19-72, Cl. 74-715.000.
Myers, Albert F., Sr., to Boise Cascade Corporation. Overrunning clutch for transfer case transmission. 3,651,907, 3-28-72, Cl. 192-43.
Myers, Charles H.: *See—*
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Myers, Charles L., to Phillips Petroleum Company. Dimerization of conjugated dienes. 3,655,793, 4-11-72, Cl. 260-666.
Myers, Charles T.: *See—*
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Myers, Clifford E., to Welsh Corporation, The. Method of producing fire retardance in a prefinished panel. 3,682,675, 8-8-72, Cl. 117-8.000.
Myers, Clyde B. Highly siliceous solid sodium silicate. 3,690,822, 9-12-72, Cl. 423-334.000.
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Myers, Edward B., to Honeywell Inc. Cage valve with multi-purpose ring. 3,635,247, 1-18-72, Cl. 137-625.5.
Myers, Ernest L.: *See—*
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Myers, Gerald D.: *See—*
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Myers, Helen T.: *See—*
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Myers, Herbert, to Mobil Oil Corporation. 1(O,O-Diorganophosphorodithiato)alkyl carboxylates and process for making same. 3,646,172, 2-29-72, Cl. 260-928.
Myers, Herbert, to Mobil Oil Corporation. Polysulfurized olefins. 3,697,499, 10-10-72, Cl. 260-139.000.
Myers, Herman A., to Insta-Snap, Inc. Pipe wrenches. 3,636,800, 1-25-72, Cl. 31-145.
Myers, Herman A. Ratchet-like wrench. 3,640,158, 2-8-72, Cl. 81-583.
Myers, Herman A., to Insta-Snap, Inc. Plier-like tools. 3,657,947, 4-25-72, Cl. 81-134.
Myers, Herman A., to Insta-Snap, Inc. Locking plier. 3,657,948, 4-25-72, Cl. 81-367.000.
Myers, Herman A. Adjustable locking wrench. 3,657,949, 4-25-72, Cl. 81-370.000.
Myers, Herman A., to Insta-Snap, Inc. Vise. 3,666,260, 5-30-72, Cl. 269-214.000.
Myers, Herman A. Liquid fuel operated automatic weapons. 3,673,917, 7-4-72, Cl. 89-7.000.
Myers, Herman A. Open end two point contact wrench. 3,682,024, 8-8-72, Cl. 81-129.000.
Myers, Herman A. Wrench head. 3,695,124, 10-3-72, Cl. 81-121.00r.
Myers, James E., to Clark Equipment Company. Adjustable shelf support bracket. 3,700,114, 10-24-72, Cl. 211-150.000.
Myers, John A. Method for making lengths of rope. 3,704,578, 12-5-72, Cl. 57-1.00r.
Myers, John H.: *See—*
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Myers, John W., to Phillips Petroleum Company. Skeletal isomerization of olefins over halogen-containing zirconia catalyst. 3,663,453, 5-16-72, Cl. 252-441.
Myers, Lawrence A., to Chore-Time Equipment, Inc. Poultry waterer. 3,675,627, 7-11-72, Cl. 119-72.000.
Myers, Lester L., to Mobile Aerial Towers. Torsion bar stabilizing apparatus for vehicles. 3,690,693, 9-12-72, Cl. 280-124.00r.
Myers, Lester W., to Electronic Communications, Inc. Gross leak detector and method. 3,646,804, 3-7-72, Cl. 73-45.5.
Myers, Luther O., Jr.: *See—*
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Myers, Michael C.: *See—*
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Myers, Ned C., to Robertshaw Controls Company. Snap-fitted pneumatic selector valve having a tubular conduit for fluid flow switching. 3,633,621, 1-11-72, Cl. 137-625.11.
Myers, Ned C., to Robertshaw Controls Company. Vacuum operated electrical switch with cup shaped diaphragm normally holding controls closed. 3,688,064, 8-29-72, Cl. 200-83.00n.
Myers, Neo, to Robertshaw Controls Company. Pneumatic control system and temperature responsive valve construction therefor or the like. 3,687,290, 8-29-72, Cl. 210-149.000.
Myers, Ralph S.: *See—*
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Myers, Robert H.: *See—*
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Myers, Robert R.; deceased (Myers, Helen T.; executor); and Hayes, Fay A. Filter device for a submergible swimming pool cleaner. 3,688,908, 9-5-72, Cl. 210-169.000.
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Myers, Thomas A. Pressure control well head for slanted bore holes. 3,680,632, 8-1-72, Cl. 166-89.000.
Myers, William N., Jr., to American Micro-Systems, Inc., mesne. Frequency selecting system. 3,674,917, 7-4-72, Cl. 178-2.00r.
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Myles, Walter E., to Singer-General Precision, Inc. Motion picture projector. 3,632,194, 1-4-72, Cl. 352-200.
Myles, Walter Edward, to Singer Company, The, mesne. Optical system to reduce image to lens distance by polarization control. 3,682,532, 8-8-72, Cl. 350-157.000.
Mylting, Lauritz E., to Envirotech Corporation, mesne. Apparatus and method for unloading bulk fluent materials. 3,690,731, 9-12-72, Cl. 302-42.000.
Myrah, Truman L. Plug-in flashlight extension. 3,634,680, 1-11-72, Cl. 240-10.6.
Myreen, Bertel, to Paraisten Kalkki Oy. Method and device for measuring the temperature of material in a rotatory furnace. 3,675,467, 7-11-72, Cl. 73-351.000.
Myrenne, Karl-Dieter S.: *See—*
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Naarmann, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Thermoplastic compositions based on olefin polymers and nylons. 3,632,790, 1-4-72, Cl. 260-37.
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Naarmann, Herbert; and Hartmann, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Boric acid esters of 2-vinylthioethanol. 3,697,575, 10-10-72, Cl. 260-462.00r.
Naarup, Wayne D.; and Turner, Martin E., to Regal Farms, Inc. Method and apparatus for defatting pelts. 3,681,948, 8-8-72, Cl. 69-22.000.
Naas, Erling M.: *See—*
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Nabiullin, Faat Khatovich; Buzova, Zoya Mikhailovna; Gertsik, Mikhailovich; and Zjuzin, Sergei Alexeevich. Arrangement for manufacture of a primary cell electrode. 3,677,824, 7-18-72, Cl. 136-175.
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Nacarato, Ralph A. Mounting means for windshield light filter. 3,679,255, 7-25-72, Cl. 296-97.00c.
Nacci, George Raymond, to Du Pont de Nemours, E. I., and Company. Apparatus for magnetic recording of electronic signals. 3,689,934, 9-5-72, Cl. 346-74.0mt.
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Nace, Donald W.: *See—*
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Nachbur, Hermann; and Maeder, Arthur, to Ciba Limited. Phosphorus-containing reaction products. 3,634,422, 1-11-72, Cl. 260-249.6.
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Nacht, George G., to United States of America, Navy. Walsh function generator. 3,701,143, 10-24-72, Cl. 340-347.0dd.
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Nachtman, Elliot Simon, to La Salle Steel Company. Hot ductility of steels containing tellurium. 3,679,400, 7-25-72, Cl. 75-123.0aa.
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Nadalini, Adino, to Soc. Az. Industrie Meccaniche Padovane Saimp. Template copying device for machine tools. 3,643,644, 2-22-72, Cl. 125-11.
Nadazawa, Yoshiyuki; Nakamura, Yashuharu; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, to Fuji Photo Film Co., Ltd. Silver halide supersensitized photographic emulsion. 3,677,765, 7-18-72, Cl. 96-124.000.
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Nadherny, Rudolph E.; and Smith, Edward Payson, to Illinois Railway Equipment Company. Sealing assembly for railway car journal box. 3,663,025, 5-16-72, Cl. 277-189.000.
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Nappe, William D., to Crane Packing Company. Seal with installed spare parts. 3,675,933, 7-11-72, Cl. 277-9.000.
Napper, Jack C. Child's liquid spill container. 3,696,965, 10-10-72, Cl. 220-90.400.
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Narang, Chander K., to Burroughs Corporation. Digital data communication system providing a recirculating poll of a plurality of remote terminal units. 3,688,273, 8-29-72, Cl. 340-172.500.
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Narayana, Munisamappa; Keskkula, Henno; and Mason, Jerry E., to Dow Chemical Company, The. Self-extinguishing high impact styrene polymers. 3,639,522, 2-1-72, Cl. 260-880.
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Nass, Walter R. Motor vehicle wheel assembly. 3,635,529, 1-18-72, Cl. 301-65.

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Natelson, Samuel, to Rohe Scientific Corporation. System for transferring liquids between containers. 3,687,632, 8-29-72, Cl. 23-259.000.
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Neer, Clifford H., to Burt Machine Company, Incorporated, mesne. Labeling machine. 3,648,823, 3-14-72, Cl. 198-160.
Neer, Harold M., to Phillips Petroleum Company. Temperature control system. 3,632,986, 1-4-72, Cl. 219-501.
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Neff, George J., Jr., to Avco Corporation. Collapsible antenna assembly. 3,646,566, 2-29-72, Cl. 343-808.
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Neff, Marten I. Method of adjusting a speaker of an electrical sound producing instrument. 3,670,841, 6-20-72, Cl. 181-31.00r.
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Neff, Ray A.; and Gowings, Dan D., to Visu-Phonics, Incorporated. Aircraft proximity device. 3,705,405, 12-5-72, Cl. 343-112.0ca.
Neff, Robert G., to Mead Corporation, The. Carton having composite bottom. 3,679,122, 7-25-72, Cl. 229-40.000.
Neff, Samuel G. Golf club head protector. 3,664,399, 5-23-72, Cl. 150-1.50r.
Neff, Ted. Combination wire working tool. 3,654,647, 4-11-72, Cl. 7-5.3.
Neff, William S., to Westinghouse Electric Corporation. Flexible insulating sheet containing boron nitride fibers and method for forming the same. 3,679,532, 7-25-72, Cl. 161-59.000.
Negersmith, Kent M.; and Calogero, William J., to Technicon Instruments Corporation. Apparatus for determining the pack volume of particulates in liquid mixtures. 3,679,367, 7-25-72, Cl. 23-259.000.
Negishi, Akira; Takayanagi, Kiyoshi; and Ikeda, Masaru, to Furukawa Electric Company Limited, The. Corrosion and wear resistant nickel alloy. 3,660,082, 5-2-72, Cl. 75-134.000.
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Negishi, Satoshi, to Tokyo Shibaura Electric Co., Ltd. Automatic processing system for bowling games. 3,665,407, 5-23-72, Cl. 340-172.500.
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Negra, John S.; and Warshaw, Abe, to Chemical Construction Corporation. Process and catalyst for treating combustion exhaust gas. 3,701,822, 10-31-72, Cl. 423-213.000.
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Negrini, Maurice Anthony. Method of manufacturing plastic bowling pin. 3,672,031, 6-27-72, Cl. 29-417.000.
Negro, Guido, to Bielomatik Leuze & Co. Apparatus for manufacturing spirals from threads of synthetic thermoplastics material. 3,669,583, 6-13-72, Cl. 425-214.000.
Negro, Guido, to Bielomatik Leuze & Co. Method and apparatus for producing and threading a helix into a stack of sheets. 3,688,809, 9-5-72, Cl. 140-92.400.
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Nehring, Rudolf; Hockele, Gunter; and Ludwig, Gerhard, to Chemische Werke Huls Aktiengesellschaft. Process for the preparation of saturated monocyclic monoterpenes. 3,702,348, 11-7-72, Cl. 260-675.500.
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Neiger, Benjamin. Optical flame detector. 3,633,192, 1-4-72, Cl. 340-227.
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Neighbors, Ralph P., to Gulf Oil Corporation, mesne. Phenoxyalkanoylamidooxyalkanoic compounds. 3,660,475, 5-2-72, Cl. 260-519.000.
Neighbors, Ralph P., to Gulf Research & Development Company. Combating weeds with lower alkyl 3-phenylcarbamoyloxythiolcarbanilates. 3,701,646, 10-31-72, Cl. 71-100.000.
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Neilson, Dan A.: *See—*
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Neinhuis, Rijkent Jan, to U.S. Philips Corporation. Insulated gate field effect transistor with integrated safety diode. 3,648,129, 3-7-72, Cl. 317-235.

Neis, Donald A., to Motorola, Inc. Process for forming luminescent screens. 3,649,328, 3-14-72, Cl. 117-33.5.

Neisch, James C., to North American Rockwell Corporation. Differential control. 3,706,351, 12-19-72, Cl. 180-75.000.

Neishi, Kiyosou, to Toyo Kogyo Co., Ltd. End wall construction for a rotary piston internal combustion engine. 3,693,608, 9-26-72, Cl. 123-193.00c.

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Neitzke, Nicholas R.; and Adams, Chester F., Jr., to Weyerhaeuser Company. Means for locking a lid to a container. 3,692,231, 9-19-72, Cl. 229-45.000.

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Nekrasov, Nikolai Nikolaevich; Blinchikov, Alexandr Lvovich; Kazansky, Vasily Leonidovich; Besedin, Alexandr Fedorovich; Krikunenko, Anatoly Filippovich; Makarov, Egor Maximovich; Zemskov, Alexei Lavrentievich; Afinogenov, Fridrikh Ivanovich; Kirichenko, ergei Pavlovich; and Kulikov, Alexei Andreevich, to Kuibyshevsky Filial Vsesojuznogo mauchno-issledovatel skogo instituta neftepererabatyvajuschel Promyshlennosti. Gas burner. 3,681,003, 8-1-72, Cl. 431-353.000.

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Nelen, Igor Mikhailovich; and Goryachkin, Vladimir Ivanovich. Method of purifying sulphur from arsenic. 3,687,628, 8-29-72, Cl. 423-578.000.

Nelkin, Arthur; and Whittaker, Robert H., to Westinghouse Electric Corporation. Apparatus for laying underground cable. 3,699,693, 10-24-72, Cl. 61-72.600.

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Nell, David J.; and Lewis, Thomas W., II, to Dresser Industries, Inc. Nozzles for continuous casting. 3,698,942, 10-17-72, Cl. 117-123.00a.

Nell, Hans Alfred. Support structure. 3,633,855, 1-11-72, Cl. 248-1.

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Nellen, Wilhelm; Sevenich, Theodor; and Wladika, Hans, to Hoesch Aktiengesellschaft. Rolling of metal ingots into bands. 3,693,393, 9-26-72, Cl. 72-226.000.

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Nellis, Stewart; Kopf, Joseph Ellis; and Reti, Adrian R., to Technical Wire Products Inc. Electrical interconnector. 3,680,037, 7-25-72, Cl. 339-61.00m.

Nelms, Jimmie J., to Mobil Oil Corporation. Fluid stream sampling apparatus. 3,638,498, 2-1-72, Cl. 73-422.

Nelsen, Thomas Sloan. Electronic ignition system for firearms. 3,650,174, 3-21-72, Cl. 89-28.

Nelson, Alden W., to Crompton & Knowles Corporation. Multiple extrusion apparatus. 3,692,447, 9-19-72, Cl. 425-113.000.

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Nelson, Arthur. Terminal clip. 3,704,439, 11-28-72, Cl. 339-99.00r.

Nelson, Arthur J. Apparatus and method for deep sea dredging. 3,638,338, 2-1-72, Cl. 37-65.

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Nelson, Arvid L.; and Seckman, John E., to Gardner-Denver Company. Coolant passage construction for gas compressors. 3,632,237, 1-4-72, Cl. 417-536.

Nelson, Arvid L.; and Cirrincione, Gilbert, to Gardner-Denver Company. Receiver-separator unit for liquid injected gas compressor. 3,653,191, 4-4-72, Cl. 55-310.

Nelson, Axel B.; and Spacko, Roman F., to Sloan Valve Company. Adjustable quiet refill heads for flush valves. 3,656,499, 4-18-72, Cl. 137-270.000.

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Nelson, Daniel E. Hot gas pumps and thrusters. 3,685,294, 8-22-72, Cl. 60-266.000.

Nelson, David J. Tire pulverizer. 3,656,697, 4-18-72, Cl. 241-222.

Nelson, Donald Frederick, to Bell Telephone Laboratories, Incorporated. Acousto-optic tuning of optical second harmonic genera-

tors and other parametric devices. 3,665,204, 5-23-72, Cl. 307-88.3.
Nelson, Donald R.; Zakaitis, Robert C.; and Parent, Joseph V., to Goddard Industries, Inc. Valve. 3,648,723, 3-14-72, Cl. 137-454.6.
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Nelson, Evan S.; and Nelson, Charles J., to Nelson Company, The. Apparatus for perforating and opening a can of liquid and for sealing the opened can against leakage while coupling a dispenser to the opened can. 3,705,666, 12-12-72, Cl. 222-82.000.
Nelson, George P., to United States of America, Navy. Pulse train decoder with pulse width rejection. 3,667,054, 5-30-72, Cl. 328-111.000.
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Nelson, Gunner E.; Becker, Warren E.; and Kobetz, Paul, to Ethyl Corporation. Process for preparing tertiary amine alanes. 3,651,064, 3-21-72, Cl. 260-270.
Nelson, Gunner E., to Ethyl Corporation. Process for producing sodium, lithium or potassium dihydrocarbon dihydrides of aluminum. 3,686,248, 8-22-72, Cl. 260-448.00a.
Nelson, Gunner E., to Ethyl Corporation. Chemical reducing agents of enhanced hydrocarbon solubility. 3,696,047, 10-3-72, Cl. 252-188.000.
Nelson, Gunner E., to Ethyl Corporation. Method of stabilizing sodium aluminum diethyl hydride. 3,696,136, 10-3-72, Cl. 260-448.00a.
Nelson, Harold H.: *See—*
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Nelson, Harry, to Hughes Aircraft Company. Multi-function telescope. 3,698,812, 10-17-72, Cl. 356-5.000.
Nelson, Hazen E., to Stone & Webster Engineering Corporation. Evaporation-reverse osmosis water desalination system. 3,632,505, 1-4-72, Cl. 203-11.
Nelson, Henry O.; King, Howard F.; and Dale, Louis D., to United States of America, Army. Smoke generator. 3,632,067, 1-4-72, Cl. 244-136.
Nelson, Herbert, to RCA Corporation. Method of making light emitting diode. 3,694,275, 9-26-72, Cl. 148-171.000.
Nelson, Howard N.: *See—*
Sager, Karl E.; and Nelson, Howard N., 3,660,186.
Nelson, Howard N., to Kimberly-Clark Corporation. Method of dispensing interfolded sheet material and package therefor. 3,700,138, 10-24-72, Cl. 221-51.000.
Nelson, Howard W., to Veeden Industries Inc., mesne. Percentage counter. 3,684,870, 8-15-72, Cl. 235-92.0ea.
Nelson, Hugh Wharton: *See—*
Fogman, Carl Bertil; Nelson, Hugh Wharton; and Tsao, Utah, 3,650,888.
Fogman, Carl Bertil; Nelson, Hugh Wharton; and Tsao, Utah, 3,650,889.
Nelson, Jerome W.; and Randolph, James B., to CRC-Crose International, Inc. Exchangeable cartridge unit for automatic welders. 3,632,959, 1-4-72, Cl. 219-125.
Nelson, John; and Stoppard, William E., to Leesona Corporation. Strand handling. 3,640,160, 2-8-72, Cl. 83-24.
Nelson, John A. Building construction. 3,648,420, 3-14-72, Cl. 52-86.
Nelson, John C.: *See—*
Belisle, Alfred E.; and Nelson, John C., 3,652,353.
Nelson, John H.: *See—*
Buhler, Allen C.; Engel, Eric; Nelson, John H.; and Amundson, Clyde H., 3,653,921.
Nelson, John M.: *See—*
Schmedes, Robert; and Nelson, John M., 3,656,254.
Nelson, John P.; Dernovshek, Joseph F.; Miller, Hal E.; and Byers, Clifton A., to Goodyear Tire & Rubber Company, The. Disc brake with homogeneous brake stack. 3,650,357, 3-21-72, Cl. 188-71.5.
Nelson, John Richard: *See—*
Flanagan, James Loton; Kronmeyer, James Hughes; and Nelson, John Richard, 3,675,513.
Nelson, Karl E.: *See—*
Hinderaker, Philip D.; and Nelson, Karl E., 3,679,505.
Nelson, Kenneth R., to Schlage Lock Company. Lock cylinder body and method of providing the same. 3,673,831, 7-4-72, Cl. 70-373.
Nelson, Kurt, to De Laval Separator Company, The. Apparatus for indicating the sludge level in centrifuges. 3,637,134, 1-25-72, Cl. 233-19.
Nelson, L. R., Mfg. Co., Inc.: *See—*
Hanson, Richard E.; and Lippitt, Raymond F., 3,669,353.
Hayes, Jerry R., 3,655,164.
Sisson, Donald R.; and Hanson, Richard E., 3,680,778.
Nelson, Larry Ralph: *See—*
Gilbert, Daniel Eugene; Nelson, Larry Ralph; Sturgeon, Charles Edwin; and Thom, Robert Keith, 3,666,670.
Nelson, Laurence S. Drinking fountain head guard. 3,632,044, 1-4-72, Cl. 239-288.5.
Nelson, Lawrence B.: *See—*
Muller, Thomas C.; Nelson, Lawrence B.; and Bluestein, Bernard R., 3,657,347.
Nelson, Leonard; and Wilson, Thomas, to Custom Tool & Machine Co., Inc. Side operated drawbolt for tool-carrying spindle. 3,676,120, 7-11-72, Cl. 90-11.00a.
Nelson, Leonard E.: *See—*
Legacy, Lloyd W.; McAvoy, Thomas R.; and Nelson, Leonard E., 3,688,453.
Nelson, Leone M. Key holder for inside a purse. 3,682,216, 8-8-72, Cl. 150-40.000.
Nelson, Leroy E., to Winzen Research, Inc. Circular clamp for balloons or the like. 3,686,721, 8-29-72, Cl. 24-243.00k.
Nelson, Lloyd A., to Gerber Products Company. Method and apparatus for testing hermetically-sealed containers. 3,650,145, 3-21-72, Cl. 73-37.
Nelson, Lloyd A., to Gerber Products Company. Process for applying tape across the cover and body of a container. 3,686,052, 8-22-72, Cl. 156-212.000.
Nelson, Loren D.; and Silverman, Bernard A., to United States of America, Air Force. Weather modification utilizing microencapsulated material. 3,659,785, 5-2-72, Cl. 239-2.
Nelson, Lorne W. Multiple use sorting card. 3,672,499, 6-27-72, Cl. 209-80.500.
Nelson, Lowell F., to Enterprise Brass Works. Fill pipe cover. 3,698,592, 10-17-72, Cl. 220-552.000.
Nelson Manufacturing Company: *See—*
McKinstry, James E., 3,650,247.
Nelson, Marvin A.: *See—*
Bergles, Joseph L.; and Nelson, Marvin A., 3,681,236.
Nelson, Max A.: *See—*
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Nelson, Melvin A.; Lackey, Jerry G.; and Davies, Terence J., to United States of America, Atomic Energy Commission, mesne. Kerr cell system for modulating a laser beam. 3,675,022, 7-4-72, Cl. 250-199.000.
Nelson, Melvin J. Footing tile for transverse flow of seepage. 3,668,829, 6-13-72, Cl. 52-169.
Nelson, Merritt J. Shower head. 3,647,145, 3-7-72, Cl. 239-460.
Nelson Muffler Corporation: *See—*
Nelson, Ralph H., 3,687,225.
Nelson, Ralph H., 3,703,938.
Nelson, Murrell D., to Mobil Oil Corporation. Balanced pressure drilling. 3,684,038, 8-15-72, Cl. 175-66.000.
Nelson, Norman A.: *See—*
Bundy, Gordon L.; and Nelson, Norman A., 3,689,521.
Nelson, Norman A.; and Jackson, Robert W., to Upjohn Company, The. 17-Azosteroids. 3,634,419, 1-11-72, Cl. 260-244.
Nelson, Norman A., to Upjohn Company, The. Ring B-secosteroid transformation products and process. 3,634,460, 1-11-72, Cl. 260-343.2.
Nelson, Norman A., to ACF Industries, Incorporated. Subsea wellhead control system. 3,640,299, 2-8-72, Cl. 137-1.
Nelson, Norman A.; and Jackson, Robert W., to Upjohn Company, The. Dibenzo[de,g]quinoline 9(10H)ones. 3,642,800, 2-15-72, Cl. 260-286.
Nelson, Norman A., to ACF Industries Incorporated. Valve with integral closure and seat carrier unit. 3,658,087, 4-25-72, Cl. 137-454.600.
Nelson, Norman A., to Upjohn Company, The. 4b,5,6,7,9,10-Hexahydro-4-hydroxy-2,4b-dimethyl-7-oxo-1-phenanthrenepionic acid. 3,658,880, 4-25-72, Cl. 260-468.5.
Nelson, Norman A.; and Vanden Berg, Gary E., to Upjohn Company, The. Method of reducing hypercholesteremia in humans employing a copolymer of polyethylenepolyamine and a bifunctional substance, such as epichlorohydrin. 3,692,895, 9-19-72, Cl. 424-78.000.
Nelson, Olive: *See—*

Nelson, Elmer F.; and Nelson, Olive, 3,704,000.
Nelson, Paul A.: *See—*
Vissers, Donald R.; Holmes, John T.; Nelson, Paul A.; and Bartholme, Louis G., 3,683,272.
Nelson, Paul A., to United States of America, Atomic Energy Commission. Reprocessing a plutonium dioxide-molybdenum fuel. 3,647,421, 3-7-72, Cl. 75-84.1.
Nelson, Paul E.: *See—*
Johnston, David L.; and Nelson, Paul E., 3,662,375.
Nelson, Permil N. Rail joint. 3,658,245, 4-25-72, Cl. 238-151.
Nelson, Peter H., to Syntex Corporation. 2-(6-Methoxy-2-naphthyl)-1-propyl boranes. 3,651,148, 3-21-72, Cl. 260-606.5.
Nelson, Peter H., to Syntex Corporation. 2-Formyl-(6-methoxy-2-naphthyl) acetic acid. 3,681,432, 8-1-72, Cl. 260-473.00f.
Nelson, Philip E., to Purdue Research Foundation. Aseptic storage and valving system. 3,678,955, 7-25-72, Cl. 137-238.000.
Nelson, Ralph H., to Nelson Muffler Corporation. Combined exhaust muffler with spark arrester. 3,687,225, 8-29-72, Cl. 181-36.00c.
Nelson, Ralph H., to Nelson Muffler Corporation. Exhaust muffler. 3,703,938, 11-28-72, Cl. 181-58.000.
Nelson, Raymond A.; and Poland, William F., to Sperry Rand Corporation. Automatic pilot for navigable craft. 3,635,428, 1-18-72, Cl. 244-77.
Nelson, Raymond L., to Eastman Kodak Company. Belt transfer device. 3,644,034, 2-22-72, Cl. 355-3.
Nelson, Raymond L., to Eastman Kodak Company. Motion detecting circuit. 3,673,496, 6-27-72, Cl. 324-161.000.
Nelson, Richard B., to Varian Associates. Water load. 3,633,131, 1-4-72, Cl. 333-22.
Nelson, Richard E., to Honeywell Inc. Balanced pressure regulator. 3,654,948, 4-11-72, Cl. 137-118.
Nelson, Richard L.: *See—*
Crandall, Stanley C.; Harris, Billy J.; and Nelson, Richard L., 3,662,924.
Nelson, Richard L.; and Nelson, Walter P. Apparatus for making food item. 3,666,485, 5-30-72, Cl. 99-88.000.
Nelson, Richard P.: *See—*
Mathews, Victor M., Jr.; Nelson, Richard P.; and Lally, Eugene Brooks, 3,642,046.
Nelson, Robert: *See—*
Green, John L.; and Nelson, Robert, 3,673,546.
Nelson, Robert B., to Minnesota Mining and Manufacturing Company. Developer power of thermoplastic special particles having conductive particles radially dispersed therein. 3,639,245, 2-1-72, Cl. 252-62.1.
Nelson, Robert C.: *See—*
Clifford, Thomas J.; and Nelson, Robert C., 3,675,860.
Nelson, Robert D., to Lubrication Sciences, Inc. Lubricant coated bearing and method. 3,632,368, 1-4-72, Cl. 117-16.
Nelson, Robert D., to Lubrication Sciences, Inc. Layer lattice structured dry lubricant coating method. 3,644,133, 2-22-72, Cl. 117-31.
Nelson, Robert D., to Burroughs Corporation. Method for mounting connectors on printed circuit boards. 3,704,515, 12-5-72, Cl. 29-626.000.
Nelson, Robert E.; Sanders, Robert K.; and Watts, Oran Alton, III, to General Motors Corporation. Divider-multiplier circuit. 3,636,332, 1-18-72, Cl. 235-195.
Nelson, Robert E.; Sanders, Robert K.; and Watts, Oran Alton, III, to General Motors Corporation. Turbine inlet temperature computer. 3,636,335, 1-18-72, Cl. 235-193.
Nelson, Robert Gordon, to International Business Machines Corporation. Servomechanism for incrementing strip record transporting systems. 3,639,688, 2-1-72, Cl. 178-6.6.
Nelson, Robert L., to Minnesota Mining and Manufacturing Company. Unitary sterility indicator and method. 3,661,717, 5-9-72, Cl. 195-103.5.
Nelson, Robert S., to Dominion Gasket & Manufacturing Co., Limited. Extrusion apparatus for making conduit pipe. 3,666,389, 5-30-72, Cl. 425-324.000.
Nelson, Robert T.: *See—*
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Nelson, Rodney A.: *See—*
Nankee, Robert J.; Lamphere, Jack C.; and Nelson, Rodney A., 3,686,024.
Nelson, Roger John, to Deere & Company. Servo-control for an agricultural tractor hydraulic lift. 3,674,095, 7-4-72, Cl. 172-7.000.
Nelson, Roger John, to Deere & Company. Pump assembly for power steering system. 3,705,493, 12-12-72, Cl. 60-52.00s.
Nelson, Roy A. Element matching device. 3,659,356, 5-2-72, Cl. 35-35.
Nelson, Sigurd E.: *See—*
Manning, Bernard; and Nelson, Sigurd E., 3,705,985.
Nelson, Stanford C. Belt traction vehicle. 3,696,878, 10-10-72, Cl. 180-9.460.
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Nelson, Terence John: *See—*
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Nelson, Terry N.: *See—*
Foslien, Floyd L.; and Nelson, Terry N., 3,685,681.
Nelson, Thomas A., to Bendix Corporation, The. Variable back pressure check valve and drain valve. 3,665,950, 5-30-72, Cl. 137-107.
Nelson, Vaughn A., to International Harvester Company. Fluid line coupler. 3,653,405, 4-4-72, Cl. 137-594.
Nelson, Vaughn A., to International Harvester Company. Decelerator means for expansible chamber device. 3,668,975, 6-13-72, Cl. 91-409.000.
Nelson, Vaughn A., to International Harvester Company. Fluid line coupling. 3,670,770, 6-20-72, Cl. 137-614.040.
Nelson, Vaughn A., to International Harvester Company. Hydraulic directional control valve. 3,698,434, 10-17-72, Cl. 137-624.270.
Nelson, Victor R. Drier for sheet material. 3,637,983, 1-25-72, Cl. 219-388.
Nelson, Walter: *See—*
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Nelson, Walter A., to Rite Way, Inc. Grill. 3,651,796, 3-28-72, Cl. 126-215.
Nelson, Walter K., to Walco National Corporation. Adjustable beds for burial caskets. 3,653,104, 4-4-72, Cl. 27-12.
Nelson, Walter P.: *See—*
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Nelson, Wayne F., to Murphy, G. W., Industries, Inc., mesne. Cementing collar. 3,633,671, 1-11-72, Cl. 166-224.
Nelson, William F.: *See—*
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Nelson, William J.: *See—*
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Nelson, Winston L. Puzzle forming regular geometric figures from a changeable number of pieces having sequentially increasing surface areas. 3,667,760, 6-6-72, Cl. 273-157.
Nelsson, Nels, to United States Gypsum Company. Bracket standard and partition member retainer. 3,685,234, 8-22-72, Cl. 52-36.000.
Nembhard, Roy: *See—*
Domin, Siegfried; and Nembhard, Roy, 3,697,971.
Nemcansky, Jan; and Merta, Stanislva, to Prvni brnenska strojirna, oborovy podnik. Steam or gas damper with axial and radial baffle plates. 3,635,309, 1-18-72, Cl. 181-55.
Nemec, Adolf: *See—*
Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
Nemec, Joseph W.; and Schlaefer, Francis W., to Rohm & Haas Company. Method of oxidizing olefins. 3,637,835, 1-25-72, Cl. 260-533.
Nemec, Joseph W.; and Hoffer, Donald R., to Rohm & Haas Company. Method of producing unsaturated nitrile and ester compounds. 3,642,843, 2-15-72, Cl. 260-405.5.
Nemechek, Arthur A.: *See—*
Garday, Louis C.; and Nemechek, Arthur A., 3,673,855.
Nemeth, Bela J., to Kennametal, Inc. Cermet product and method and apparatus for the manufacture thereof. 3,702,573, 11-14-72, Cl. 76-101.00a.
Nemeth, Henry; Nielsen, Edwin August; and Berkin, Harvey, to Ideal Toy Corporation. Toy phonograph mechanism. 3,667,764, 6-6-72, Cl. 274-9.00r.
Nemeth, Jozef; and Csovak, Erno, to Gepipari Technologiai Intezet. Device for clamping and advancing elongated workpiece. 3,642,186, 2-15-72, Cl. 226-164.
Nemeth, Jozsef: *See—*
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Nemeth, Peter: *See—*
Pierson, Edward D.; Wright, James C.; de Rozario, Carl C.; and Nemeth, Peter, 3,648,618.
Nemeth, Piroska E.; and Sutton, Blaine M., to Smith Kline & French Laboratories. Trialkylphosphinegold complexes of 1-β-D-glucopyranosides. 3,635,945, 1-18-72, Cl. 260-210.
Nemier, Stanley E.: *See—*
Brumbaugh, Philip A.; Harrington, Richard H.; Nemier, Stanley E.; and Nielsen, Thomas C., 3,672,482.
Nemilov, Evgeny Fedorovich: *See—*
Vishnitsky, Alexandr Lazarevich; Shapiro, Lev Mironovich; Kazantsev, Evgeny Andreevich; Shvartsman, Benyamin Markovich; Shilov, Georgy Petrovich; Nemilov, Evgeny Fedorovich; Baisupov, Izmail Abdulovich; Masterov, Vasily Fomich; and Rumyantsev, Alexandr Steanovich, 3,705,848.
Nemiroff, Robert V., to Eaton Yale & Towne, Inc. Dynamic automatic braking for truck. 3,641,411, 2-8-72, Cl. 318-373.
Nemo Corporation: *See—*
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Nemoto, Gentaro: *See—*
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Nemoto, Hidetaro: *See—*
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Nemoto, Kenji, to Seiko Seiki Kabushiki Kaisha. Multi-spindle automatic bar machine. 3,685,111, 8-22-72, Cl. 29-27.000.
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Nenninger, Theodore P.: *See—*
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Nentwich, Wilhelm, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Sheet gripping device for a rotary printing press. 3,650,211, 3-21-72, Cl. 101-409.
Neogi, Shibendra P.: *See—*
Toperzer, John W.; Neogi, Shibendra P.; and Beachy, Dale K., 3,693,954.
Neovius, Theodor Gosta: *See—*
Magnusson, Bengt Gunnar; and Neovius, Theodor Gosta, 3,683,117.
Nepereny, Harold A.; and Reich, John P., to Koening, A. G., mesne. Air pollution control apparatus. 3,699,750, 10-24-72, Cl. 55-288.000.
Nepomiastchy, Alexis: *See—*
Boulin, Jacques R.; Bertin, Marcel R.; and Nepomiastchy, Alexis, 3,636,481.
Boulin, Jacques R.; and Nepomiastchy, Alexis, 3,678,419.
Nepovim, Zdenek, to Lindsay Specialty Products Limited. Cable connector. 3,668,612, 6-6-72, Cl. 339-94.
Nepovim, Zdenek, to Lindsay Specialty Products Limited. Coaxial cable connector. 3,671,926, 6-20-72, Cl. 339-177.00e.
Neptune Meter Company: *See—*
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Neptune Meters Limited: *See—*
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Dunnahoe, Richard G.; Bondahl, Gary B.; and Roth, Paul W., 3,669,741.
Slechta, Alfred F.; Culp, Gordon L.; and Dunnahoe, Richard G., 3,669,742.
Nercessian, Sarkis, to Forbro Design Corporation. High current voltage/current regulator employing a plurality of parallel connected power transistors. 3,675,114, 7-4-72, Cl. 323-9.000.
Nercessian, Sarkis, to Forbro Design Corporation. High stability regulator controlling high current source with lesser stability. 3,704,381, 11-28-72, Cl. 307-53.000.
Nereid N.V.: *See—*
Lok, Harmannus Henderikus, 3,688,720.
Nerem, Marvin E. Load transfer switch assembly. 3,647,997, 3-7-72, Cl. 200-50.
Nerenberg, Samuel T. Adapter for a macromolecule separation device. 3,640,813, 2-8-72, Cl. 204-299.
Nerenberg, Samuel T. Immunodiffusion plate apparatus. 3,645,687, 2-29-72, Cl. 23-230.
Nerenberg, Samuel T. Segmental macromolecular separation method and apparatus. 3,704,217, 11-28-72, Cl. 204-180.00g.
Neri, Louis, to Griesser AG. Ruffled blind construction. 3,651,852, 3-28-72, Cl. 160-172.
Neri, Omero; and Todd, Charles E., to Uniroyal, Inc. Fold-over device for radial ply breaker material. 3,659,836, 5-2-72, Cl. 270-86.
Nersasian, Arthur, to Du Pont de Nemours, E. I., and Company. Vinylidene fluoride copolymers having improved resistance to heat-aging. 3,645,991, 2-29-72, Cl. 260-80.77.
Nervik, Torbjorn, to ESB Incorporated. Process for removal of nitrates from sintered nickel plaques impregnated with nickel salts. 3,647,547, 3-7-72, Cl. 136-75.
Nervik, Torbjorn, to ESB Incorporated. Method for removal of residual nitrate from negative battery plates. 3,663,296, 5-16-72, Cl. 136-24.
Nerwin, Henry N.: *See—*
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Nerwin, Hubert, to Eastman Kodak Company. Camera. 3,648,582, 3-14-72, Cl. 95-11.
Nerwin, Hubert, to Eastman Kodak Company. Photographic film packs. 3,648,585, 3-14-72, Cl. 95-19.
Nerwin, Hubert, to Eastman Kodak Company. Assemblage and pack of self-processing photographic film units. 3,659,511, 5-2-72, Cl. 95-13.
Nerwin, Hubert, to Eastman Kodak Company. Film cartridge. 3,664,595, 5-23-72, Cl. 242-71.100.
Nerwin, Hubert, to Eastman Kodak Company. Photographic film unit. 3,672,273, 6-27-72, Cl. 95-13.000.
Nerwin, Hubert, to Eastman Kodak Company. Photographic film assemblage. 3,680,456, 8-1-72, Cl. 95-13.000.
Nerwin, Hubert, to Eastman Kodak Company. Film cartridge and camera employing same. 3,687,037, 8-29-72, Cl. 95-31.00r.
Nerwin, Hubert, to Eastman Kodak Company. Stripping mechanism. 3,690,238, 9-12-72, Cl. 95-13.000.
Nerwin, Hubert, to Eastman Kodak Company. Reduction of initial film winding resistance in camera film magazines. 3,690,451, 9-12-72, Cl. 206-52.00f.
Nerwin, Hubert. Photographic film assemblage. 3,694,210, 9-26-72, Cl. 96-76.00c.
Nerwin, Hubert, to Eastman Kodak Company. Film units, pack and camera. 3,702,579, 11-14-72, Cl. 95-13.000.
Nerz, Joseph E., to Extracorporeal Medical Specialties, Inc. Separable surgical needle. 3,677,243, 7-18-72, Cl. 128-214.400.
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Nesbitt, Robert Dennis, to Campbell Manufacturing Company Limited. Composition comprising unsaturated elastomer, epoxy resin polycarboxylic acid or anhydride, cross-linking catalyst and filler and golf ball made therefrom. 3,671,477, 6-20-72, Cl. 260-23.0a.
Nesbitt, Sydney M. Suspension file. 3,639,020, 2-1-72, Cl. 312-184.
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Nesheim, John G. Clip for belt buckle. 3,633,249, 1-11-72, Cl. 24-77.
Ness, Leif A.; and Thomas, Edmund P., to Air Products and Chemicals, Inc. Method and apparatus for producing refrigeration. 3,657,898, 4-25-72, Cl. 62-38.
Ness, Leif A.; and Thomas, Edmund P., to Air Products and Chemicals, Inc. Method and apparatus for producing refrigeration. 3,696,637, 10-10-72, Cl. 62-402.000.
Ness, Richard A. Reinforcing element for muscles. 3,646,615, 3-7-72, Cl. 3-1.
Ness, Richard A. Magnetic ophthalmic instrument for eye therapy. 3,656,481, 4-18-72, Cl. 128-260.
Nesseth, Clinton A. Manure transfer and storage system. 3,687,311, 8-29-72, Cl. 214-16.00r.
Nessler, Charles A. Play-by-chord slide rule. 3,691,895, 9-19-72, Cl. 84-471.000.
Nesson, Israel; Palmer, Robert G.; and Zausner, Sam, to Keystone; division of Berkey Photo. Flashlamp rotating and firing apparatus. 3,657,980, 4-25-72, Cl. 95-11.50r.
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Nester, Francis M., to Keystone Industries, Inc. Gate latching mechanism. 3,707,126, 12-26-72, Cl. 105-282.00p.
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Nethersell, Barry Herbert, to British Domestic Appliances Limited. Spin driers. 3,691,645, 9-19-72, Cl. 34-58.000.

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Netherton, Leslie T.: *See—*
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Netherwood, Paul H., to Sprague Electric Company. Multi-layer beam-lead wiring for semiconductor packages. 3,684,818, 8-15-72, Cl. 174-52.00s.

Neti, Radhakrishna M.: *See—*
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Nette, Friedrich Wilhelm. Crushing device. 3,687,379, 8-29-72, Cl. 241-147.000.

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Netti, Anthony; and Bussiere, Douglas, to Davis and Furber Machine Company. Rotating spinning ring. 3,664,112, 5-23-72, Cl. 57-120.

Nettleship, Robert, to Pye Limited. Temperature compensated amplifier employing complementary pairs of transistors. 3,683,112, 8-8-72, Cl. 179-1.00a.

Nettleton, Donald E., Jr.; Bush, James A.; and Bradner, William T., to Bristol-Myers Company. Kundrymycin and process for its production. 3,663,691, 5-16-72, Cl. 424-121.

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Netzer, Theodor; and Block, Hans-Jurgen, to Nitrochemie GmbH. Caseless propellant charge containing nitrocellulose in a synthetic resin. 3,676,233, 7-11-72, Cl. 149-19.000.

Neu, Helmut: *See—*
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Hornig, Lothar Heinz; Neu, Hermann; and Probst, Otto, 3,642,885.

Neu, Wallace I. Device for measuring changes in radius of rubber tired. 3,707,701, 12-26-72, Cl. 340-58.000.

Neubauer, Ewald: *See—*
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Neubauer, Jerry L.: *See—*
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Neubeck, William H., Jr., to Bloomer-Fiske, Inc. Loading table for use with continuous production of wieners. 3,674,163, 7-4-72, Cl. 214-309.000.

Neuber, Ralph E., to Sylvania Electric Products, Inc. Clamp with surge protection. 3,659,153, 4-25-72, Cl. 317-16.000.

Neuberger, Edmond Donald; and Junker, Thomas Joseph, to Calgon Corporation. Sampling system for stack gas. 3,641,821, 2-15-72, Cl. 73-421.5.

Neubert, Eckart: *See—*
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Neubold, Kurt: *See—*
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Neudecker, Karl; and Winkler, Friedrich, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with adjustable filter. 3,662,666, 5-16-72, Cl. 95-11.00l.

Neudecker, Karl; and Theer, Anton, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with means for adjusting the exposure control in dependency on the sensitivity of film. 3,667,362, 6-6-72, Cl. 95-31.0fs.

Neudek, Rudolph Otto: *See—*
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Neudorfer, David H.; Crookston, Ronald W.; and Bertolino, August U., to Westinghouse Electric Corporation. Readily transportable circuit breaker or two-piece segmented frame construction and two-position operating mechanism housing. 3,662,128, 5-9-72, Cl. 00-48.

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Neuenburg, Henry. Motor-driven chiseling device. 3,706,474, 12-19-72, Cl. 299-38.000.

Neuenhain, Taunus: *See—*
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Neuf, Donald, to RHG Electronics Laboratory, Inc. Double balanced microwave mixer using balanced microstrip baluns. 3,652,941, 3-28-72, Cl. 325-446.

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Neugebauer, Gerhard. Means for mounting an instrument on a panel. 3,689,013, 9-5-72, Cl. 248-27.000.

Neugebauer, Heinz, to Werkzeugmaschinenfabrik Adolf Waldrich Coburg. Worm gear for driving machines-too slides, in particular in milling machines. 3,659,474, 5-2-72, Cl. 74-424.6.

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Neuhardt, Benjamin John, Jr. Mechanical traction. 3,654,921, 4-11-72, Cl. 128-75.

Neuhaus, Hans Wilhelm; and Verweel, Jan, to U.S. Philips Corporation. Storage device. 3,702,993, 11-14-72, Cl. 340-174.0yc.

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Neuhauser, Hans; Benz, Helmut; and Gukelberger, Werner, to Gustav Neuhauser Prazisionswerkzeugfabik O.M.G. Apparatus for helically machining a blank of varying diameter. 3,673,919, 7-4-72, Cl. 90-11.620.

Neuhouser, Donald E., to General Electric Company. Mine power system ground continuity check circuit. 3,676,739, 7-11-72, Cl. 317-18.00c.

Neuklis, Winifred A.: *See—*
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Neuman, John G., to General Motors Corporation. Frequency following voltage controlled filter providing substantially constant output amplitude. 3,644,847, 2-22-72, Cl. 333-17.

Neuman, Marcel, to C.N.M.P. Berthiez. Device for correcting bending of a horizontal machine-tool support element. 3,656,860, 4-18-72, Cl. 408-234.

Neuman, Marcel, to Societe Cnmp-Berthiez. Device for machining inside spherical surfaces especially for vertical lathe. 3,688,611, 9-5-72, Cl. 82-12.000.

Neuman, Marcel L.; and Colomb, Louis F. Method and apparatus of mounting and securing a rectilinear element on a support member of a machine. 3,685,116, 8-22-72, Cl. 29-200.00b.

Neumann, Barbara Susan; and Sansom, Keith Geoffrey, to Laporte Industries Limited. Composition and process for making stable aqueous sol of synthetic silicate. 3,654,176, 4-4-72, Cl. 252-313.

Neumann, Barbara Susan, to Laporte Industries Limited. Synthetic clay-like minerals of the smaltite type and method of preparation. 3,671,190, 6-20-72, Cl. 23-111.000.
Neumann, Bernhard, to General Motors Corporation. Seat belt reel. 3,666,198, 5-30-72, Cl. 242-107.4.
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Neumann, Don B., to GCO, Inc. Holographic apparatus with automatic control system for maintaining constant phase relation between reference and object beams. 3,659,947, 5-2-72, Cl. 356-106.
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Neumann, Gerhard, to Delbag-Luftfilter Gesellschaft mit beschrankter Haftung. Roller strip filter for purifying air or gases. 3,695,008, 10-3-72, Cl. 55-354.000.
Neumann, Gerhard Max. Air filter. 3,690,045, 9-12-72, Cl. 55-356.000.
Neumann, Gerhard Max, to Delbag-Luftfilter Gesellschaft mit beschrankter Haftung. Pocket filter for air and gas purification. 3,691,736, 9-19-72, Cl. 55-484.000.
Neumann, Gernot, to Hanning Elektro-Werke Robert Hanning. Drive units for automatic washing machines. 3,662,622, 5-16-72, Cl. 74-752.
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Neumann, Klaus, to Moeller & Neumann GmbH. Billet feed system for rolling mills. 3,675,909, 7-11-72, Cl. 266-13.000.
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Neumeier, Karl E., to Programmed & Remote Systems Corporation. Removable eye bolt for lifting heavy objects. 3,680,906, 8-1-72, Cl. 294-89.000.
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Neumeister, Alvin W., to Goodyear Tire & Rubber Company, The. Cord creel. 3,687,394, 8-29-72, Cl. 242-131.000.
Neumeister, Otto. Single-stage and multi-stage hydraulic cylinders, with protection against twisting. 3,631,765, 1-4-72, Cl. 92-52.
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Neuzil, Richard W. Hydrocarbon separation process. 3,696,107, 10-3-72, Cl. 260-674.50a.

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Newall Engineering Company Limited, The: *See—*
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Newallis, Peter E.; and Cheema, Zafarullah K., to Allied Chemical Corporation. Bicycloalkyl phosphate insecticides. 3,636,204, 1-18-72, Cl. 424-211.
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Newallis, Peter E.; Nufer, Hans L.; and Chupp, John P., to Monsanto Company. Process for preparing O-aryl phosphonochloridothionates. 3,691,276, 9-12-72, Cl. 260-973.000.
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Newberger, Bernard I.; Ehrlich, Stanley W.; and Vergara, Manuel N., to Hydrocarbon Research, Inc. Purification of hydrodealkylation reaction vent hydrogen. 3,666,826, 5-30-72, Cl. 260-672.
Newberger, Bernard I., to Hydrocarbon Research, Inc. Hydrodealkylation with independent lean oil recycle. 3,702,873, 11-14-72, Cl. 260-672.00r.
Newberry, George M.; and Wowk, Nicholas F. Liquid dispensing apparatus. 3,675,820, 7-11-72, Cl. 222-76.000.
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Newell, Douglas F., to United States of America, Navy. Accelerometer monitoring device. 3,667,300, 6-6-72, Cl. 73-517.000.
Newell, George F.; and Kennedy, Paul G., to Westinghouse Electric Corporation. Comparative display of images in color. 3,673,317, 6-27-72, Cl. 178-5.20r.
Newell, George K.; and McClure, Glenn T., to Westinghouse Air Brake Company. Electrically controlled hydraulic valve of self-lapping type. 3,653,729, 4-4-72, Cl. 303-50.
Newell, Harold R., to Mesur-Matic Electronics Corporation. Harmonic drive for digital step motor. 3,644,764, 2-22-72, Cl. 310-49.
Newell, Harold R., to Mesur-Matic Electronics Corporation. Control circuit for energizing the windings of multi-phase step motors including a two level supply voltage. 3,662,245, 5-9-72, Cl. 318-696.
Newell, Harold R., to Mesur-Matic Electronics Corporation. Fast rise time pulse generator. 3,671,777, 6-20-72, Cl. 307-268.000.
Newell, Harold R., to Mesur-Matic Electronics Corporation. Stepping motor driver. 3,671,826, 6-20-72, Cl. 318-138.000.
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Newell, William George. Sealing means. 3,685,837, 8-22-72, Cl. 277-1.000.
Newey, Herbert A.; and Holler, Howard V., to Shell Oil Company. Epoxy phthalimide resins. 3,692,705, 9-19-72, Cl. 260-2.0ep.
Newhall, Henry S.; and Easton, Rufus, to Koppers Company, Inc. Method and apparatus for oscillating a continuous casting mold. 3,638,714, 2-1-72, Cl. 164-83.
Newitts, Walter F.; and Johnson, Richard C., to Foster Wheeler Corporation. Expansion seal device. 3,688,746, 9-5-72, Cl. 122-235.00g.
Newkirk, John B.; Predecki, Paul K.; and Kirsch, Wolff M. Surgical drain for shunting fluid. 3,654,932, 4-11-72, Cl. 128-350.
Newkirk, John D., to Nalco Chemical Company. Non-corrosive fuels and lubricating oils. 3,654,158, 4-4-72, Cl. 252-49.9.
Newkirk, Marc S.; and Zulkowski, Peter W., to International Materials. Fuel system for gaseous fueled engines. 3,646,924, 3-7-72, Cl. 123-120.
Newkirk, Marc S., to International Materials. Method and means for generating hydrogen and a motive source incorporating same. 3,682,142, 8-8-72, Cl. 123-3.000.
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Newman, Albert P., to Empire Products, Inc. Electrical coupling device and electrical connector. 3,644,869, 2-22-72, Cl. 339-19.
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Newman, Albert P., to Empire Products, Inc., mesne. Multiple conductor cable connector. 3,676,837, 7-11-72, Cl. 339-103.00r.
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Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Process of producing transfer elements. 3,634,120, 1-11-72, Cl. 117-36.1.
Newman, Douglas A.; and Knabe, Herbert, to Columbia Ribbon and Carbon Manufacturing Co., Inc. Thermographic transfer sheet. 3,637,414, 1-25-72, Cl. 117-36.2.
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Pressure-sensitive transfer elements. 3,647,502, 3-7-72, Cl. 117-36.1.
Newman, Douglas A.; Vogel, Alfred M.; and Brown, Albert E., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Process of making pressure-sensitive transfer elements. 3,658,567, 4-25-72, Cl. 117-36.1.
Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Process of producing a planographic printing plate and resultant article. 3,663,289, 5-16-72, Cl. 117-4.
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Newman, James W.; Bavaro, Nicholas M.; and Wagner, William A., to Windings, Inc. Package of flexible material for twistless payout and method of making such package. 3,666,200, 5-30-72, Cl. 242-163.
Newman, James W., to Windings, Inc. Package of flexible-material with twistless payout. 3,689,005, 9-5-72, Cl. 242-163.000.

Newman, James W.; and Zajac, Ronald E., to Windings, Inc. Payout stand for universal type winds with radial opening for feedout. 3,705,698, 12-12-72, Cl. 242-129.510.
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Newman, Michael; and Boocock, David, to British Railways Board. Dampened railway car truck. 3,696,757, 10-10-72, Cl. 105-4.00r.
Newman, Neil F., to Esso Research and Engineering Company. N-methylenethiophosphate derivatives of 1,3-thiazines and 1,4-thiazanes. 3,681,327, 8-1-72, Cl. 260-243.00r.
Newman, Paul; and Maxwell, John, to State for Defence, Secretary of, mesne. Hollow structure with core of interwoven strips. 3,698,145, 10-17-72, Cl. 52-144.000.
Newman, Philip G., to Hercules Incorporated. Method for making explosive oil impregnated sensitizer gelled aqueous explosive slurry. 3,637,445, 1-25-72, Cl. 149-50.
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Newman, Ritchey O., Jr.; and Schrenk, Walter J., to Dow Chemical Company, The. Rigid multilayer formed sheet structures. 3,645,838, 2-29-72, Cl. 161-164.
Newman, Ritchey O., Jr.; and Schrenk, Walter J., to Dow Chemical Company, The. Laminate of a barrier layer enclosed in rigid high density polyolefin layers. 3,673,050, 6-27-72, Cl. 161-165.000.
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Newmark, Harold Leon, to Hoffmann-La Roche Inc. Antibacterial medicinal compositions. 3,703,580, 11-21-72, Cl. 424-181.000.
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Newsome, Alfred Anthony. Windshield wiper assemblies. 3,641,614, 2-15-72, Cl. 15-250.32.
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Newsteder, Robert, to Monogram Ice Company, Inc. Tray having containers for forming ice cubes and the like. 3,661,353, 5-9-72, Cl. 249-103.
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Newton, Alwin B., to Borg-Warner Corporation. Air conditioning control system. 3,688,516, 9-5-72, Cl. 62-205.000.
Newton, Alwin B., to Borg-Warner Corporation. Air conditioning control system. 3,688,517, 9-5-72, Cl. 62-209.000.
Newton, Alwin B., to Borg-Warner Corporation. Air conditioning system. 3,693,704, 9-26-72, Cl. 165-19.000.
Newton, Alwin B., to Borg-Warner Corporation. Controls for multiple-phase ejector refrigeration systems. 3,701,264, 10-31-72, Cl. 62-191.000.
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Newton, Clifford, to Imperial Chemical Industries Limited. Apparatus for producing striped colorations on dyeable substrates in continuous form. 3,667,258, 6-6-72, Cl. 68-205.00r.
Newton, Dale P., to Aero Union Corporation. Dual tank air borne fire retardant dispensing system. 3,698,480, 10-17-72, Cl. 169-1.00a.
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Ng, Daniel Y., to Purex Corporation Ltd. Alkaline bath for nonetching removal of scale from titanium workpieces. 3,690,949, 9-12-72, Cl. 134-2.000.
Ng, David M.; and Rehkopf, Charles H., to GTE Sylvania Incorporated. Means for achieving a controlled gradient density coating on a light attenuation medium. 3,664,295, 5-23-72, Cl. 118-8.
Ng, David M.; and Rehkopf, Charles M., to Sylvania Electric Products, Inc. Optical system for forming a windowed web in a color cathode ray tubescreen structure. 3,667,355, 6-6-72, Cl. 95-1.000.
Ng, Keng Chock. Process for producing potato chips. 3,660,113, 5-2-72, Cl. 99-100.
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Ogawa, Yutaka; Ogasawara, Takayuki; and Seike, Shoji, 3,658,583.
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Ngo, Dinh-Tuan, to Bell Telephone Laboratories, Incorporated. Liquid crystal display. 3,645,604, 2-29-72, Cl. 350-160.
Ngo, Dinh-Tuan, to Bell Telephone Laboratories, Incorporated. Solid state traveling display circuit. 3,651,493, 3-21-72, Cl. 340-173.
Ngo, Dinh-Tuan, to Bell Telephone Laboratories, Incorporated. Light pen for display having inherent memory. 3,651,509, 3-21-72, Cl. 340-324.
Ngo, Dinh-Tuan, to Bell Telephone Laboratories, Incorporated. Gaseous display device. 3,671,938, 6-20-72, Cl. 340-166.00r.
Nguyen, Quang Tan: *See—*
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Nguyen, Van-Tran; and Shah, Jagdeep Chandravadan, to Bell Telephone Laboratories, Incorporated. Broadband optically-pumped semiconductive lasers. 3,679,994, 7-25-72, Cl. 331-94.000.
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Munschauer, Frederick E., Jr.; and Trautman, George H., Jr., 3,675,463.
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Niblack, John F., to Pfizer Inc. Formulation process for polynucleotide homopolymers. 3,652,538, 3-28-72, Cl. 260-211.5.
Niblo, Harold D. Material mixing and conveying apparatus. 3,692,282, 9-19-72, Cl. 259-4.000.
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Nichol, George D. Golf cart seat. 3,633,519, 1-11-72, Cl. 108-44.
Nicholas, Arthur S.; and Kassouni, Sarkis M., to U.S. Industries, Inc., mesne. Method for making a decorative plastic laminate. 3,668,034, 6-6-72, Cl. 156-245.000.
Nicholas, George C. Boring tool. 3,694,099, 9-26-72, Cl. 408-58.000.
Nicholas, George E.; and Watkins, Howard G. Building construction framework with receivers for bracing means. 3,668,828, 6-13-72, Cl. 52-92.000.
Nicholas, Harold J.; and Knapp, Furn F., Jr. Class of liquid crystals. 3,686,235, 8-22-72, Cl. 260-397.200.
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Nicholds, Kenneth Edmund; and Longbottom, Geoffrey Brian, to Hymatic Engineering Company Limited, The. Cryogenic refrigerating apparatus. 3,691,784, 9-19-72, Cl. 62-218.000.
Nicholds, Kenneth Edmund, to Hymatic Engineering Company Limited, The. Cooling apparatus. 3,704,597, 12-5-72, Cl. 62-222.000.
Nicholl, Thomas H. Induction charging device. 3,675,108, 7-4-72, Cl. 320-2.000.
Nicholls, Reginald W., to Mattel, Inc. Toy aircraft roundabout with flexible control tether. 3,705,720, 12-12-72, Cl. 272-31.00a.
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Nichols, Duane W., to Whirlpool Corporation. Axially movable twist tray domestic ice maker. 3,677,030, 7-18-72, Cl. 62-353.000.
Nichols, Dwight E., to Hoover Ball and Bearing Company. Door hinge assembly for bins. 3,651,537, 3-28-72, Cl. 16-128.
Nichols, Edgar B.; and Cundiff, J. Howard, Jr. Troller. 3,688,431, 9-5-72, Cl. 43-43.140.
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Nichols, George E., Jr., to Bird Machine Company. Coated screens. 3,640,760, 2-8-72, Cl. 117-99.

Nichols, George E., Jr., to Bird Machine Company. Slurry screen and process of making it. 3,664,502, 5-23-72, Cl. 209-397.

Nichols, George Edwin, Jr., to Bird Machine Company. Solids-liquid separating centrifuge. 3,685,722, 8-22-72, Cl. 233-23.00r.

Nichols, George M., to Stauffer Chemical Company. Process for preparing alkyl aryl phosphates. 3,642,959, 2-15-72, Cl. 260-973.

Nichols, Gus. Method of preparing aromatic polyamides. 3,639,358, 2-1-72, Cl. 260-78.

Nichols, Gust: *See—*
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Nichols, Hal C.; Irwin, Sibley R.; and Collins, Robert K., Jr., to Rohm & Haas Company. Drum positioning and printing apparatus. 3,680,479, 8-1-72, Cl. 101-38.00r.

Nichols, Harry R.: *See—*
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Nichols, James B. Cooking apparatus. 3,691,938, 9-19-72, Cl. 99-348.000.

Nichols, John A., to Mill Industries, Inc. Material drying apparatus. 3,702,503, 11-14-72, Cl. 34-114.000.

Nichols, John B.; and Gamaunt, Roger L., to Hughes Tool Company. Heavy lift helicopter with vertically adjustable cockpit. 3,679,154, 7-25-72, Cl. 244-17.110.

Nichols, Joseph; and Sexsmith, Frederick H., to Ethicon, Inc. Hydrothermal treatment of collagen sutures. 3,651,204, 3-21-72, Cl. 264-342.

Nichols, Kenneth E.: *See—*
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Nichols, Kenneth E., to Air Reduction Company, Incorporated. High pressure centrifugal pump. 3,635,581, 1-18-72, Cl. 415-169.

Nichols, Kenneth E., to Gates Rubber Company, The. Slipper bearing lubrication and seal. 3,692,373, 9-19-72, Cl. 308-36.300.

Nichols, Larry D., to Moleculon Research Corporation. Pattern forming puzzle and method with pieces rotatable in groups. 3,655,201, 4-11-72, Cl. 273-153.

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Nichols, Paul E.: *See—*
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Nichols, Raymond A.: *See—*
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Nichols, Roy A. Method of and means for constructing and erecting building structures formed of bricks, or the like. 3,659,391, 5-2-72, Cl. 52-747.

Nichols, Thomas G., to General Electric Company. Techniques for casting encapsulated coils. 3,668,583, 6-6-72, Cl. 336-58.000.

Nichols, Thomas Gilbert: *See—*
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Nichols, William A.; and Simpson, Ralph E. Tape winding means. 3,672,592, 6-27-72, Cl. 242-55.210.

Nichols, William A. Table and/or table conveyor structure. 3,695,346, 10-3-72, Cl. 165-120.000.

Nicholson, Brian John, to Tracked Hovercraft Limited. Linear motor reaction rail assembly. 3,650,469, 3-21-72, Cl. 238-264.

Nicholson, Dallas E.: *See—*
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Nicholson, Denzel Allan: *See—*
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Nicholson, Denzel Allan, to Procter & Gamble Company, The. Halogenated phosphonoacetate esters. 3,649,722, 3-14-72, Cl. 260-941.

Nicholson, Denzel Allan, to Procter & Gamble Company, The. Process for the production of halogenated methylenediphosphonates. 3,662,039, 5-9-72, Cl. 260-986.

Nicholson, Denzel Allan, to Procter & Gamble Company, The. Methylenediphosphonate esters. 3,705,219, 12-5-72, Cl. 260-932.000.

Nicholson, Donald R. Animal dehorning apparatus. 3,676,929, 7-18-72, Cl. 30-228.000.

Nicholson, Eric Samuel: *See—*
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Nicholson, Geoffrey C.; and Newman, Donald J., to Minnesota Mining and Manufacturing Company. Heat-sensitive copy-sheet. 3,669,747, 6-13-72, Cl. 117-36.900.

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Nicholson, James E.; and Adams, Richard H., to Sanders Associates, Inc. Rain erosion protective device. 3,637,166, 1-25-72, Cl. 244-1.

Nicholson, James F.; and Williams, Clarence, to Westinghouse Electric Corporation. Control system for electron beam magnetometer sensor. 3,657,643, 4-18-72, Cl. 324-44.

Nicholson, James H. Longitudinal to rotational motion. 3,643,619, 2-22-72, Cl. 115-24.

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Nicholson, Thomas W.; Jorgensen, Ray B.; and Vanek, Stanley Donald, to Nicholson Manufacturing Company. Peripheral chipper for round log sections. 3,661,192, 5-9-72, Cl. 144-172.

Nichter, David E. Drive for a reduced scale track laying utility vehicle. 3,645,349, 2-29-72, Cl. 180-6.48.

Nicita, John, to Power Technology Corporation. Gas turbine engine with aerodynamic torque converter drive. 3,651,640, 3-28-72, Cl. 69-39.24.

Nick, Didier P., to Societe Verreries Industrielle Reunies du Loing. Connector for tubular elements. 3,692,338, 9-19-72, Cl. 285-272.000.

Nickel, Horst; and Suckfull, Fritz, to Farbenfabriken Bayer Aktiengesellschaft. Method of producing aminonaphthalene sulphonic acid. 3,655,740, 4-11-72, Cl. 260-509.

Nickel, Werner; and Christopoulos, Nikolaos, to Leitz, Ernst, G.m.b.H. Electronic exposure time measuring circuit with time indicator and shutter control means. 3,677,151, 7-18-72, Cl. 95-10.0ce.

Nickell, Louis G., to Hawaiian Sugar Planters Association. Ripening of sugarcane by use of certain quaternary ammonium halides. 3,660,072, 5-2-72, Cl. 71-121.

Nickell, Louis G., to Hawaiian Sugar Planters' Association. Ripening of sugarcane by use of certain quaternary ammonium halides. 3,671,219, 6-20-72, Cl. 71-121.000.

Nickell, Louis G., to Hawaiian Sugar Planters Association. Ripening of sugarcane by use of alkyl derivatives of 3-phenoxy pyridazine. 3,704,111, 11-28-72, Cl. 71-92.000.

Nickels, James J.; Mahoney, Tennis; and Hart, Harry L., to Lincoln Logotype Co., Inc. Brake mechanism for printing wheel. 3,648,606, 3-14-72, Cl. 101-375.

Nickels, William M., to Norgren, C. A., Co. Selector valve with O-ring seals. 3,687,163, 8-29-72, Cl. 137-625.110.

Nickelsen, Hubert O.; Kopanda, Joseph E.; and Piasecki, Felix J., to United States Steel Corporation. Method of making cement clinkers. 3,677,781, 7-18-72, Cl. 106-100.000.

Nickerson, John D.; and Wiesboeck, Robert A., to United States Steel Corporation. Process for preparing phosphorus pentafluoride and fluorophosphoric acids. 3,634,034, 1-11-72, Cl. 23-205.

Nickerson, Ralph F., to Monsanto Company. Polyvinyl alcohol adhesive composition with high wet tack containing a boron compound and cis 1,2 polyol compound. 3,632,786, 1-4-72, Cl. 260-29.6.

Nickerson, Ralph F.; and Weymouth, Harold D., to Monsanto Company. Polyvinyl alcohol-glyoxal-polyol adhesive composition. 3,700,611, 10-24-72, Cl. 260-17.00r.

Nickerson, Richard Gorham; Harris, Barry Russell; and Breslouf, Morris, to Borden, Inc. Acid curable vinyl acetate copolymer latex-polyvinyl alcohol adhesive. 3,644,257, 2-22-72, Cl. 260-29.6.

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Nicklin, Thomas, to Gas Council, The. Alkylation of phenols. 3,701,811, 10-31-72, Cl. 260-621.00r.
Nicklin, Thomas, to Gas council, The. Treatment of gases. 3,704,095, 11-28-72, Cl. 423-242.000.
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Nicol, John, to Teledyne, Inc. Tube coupling assembly. 3,653,694, 4-4-72, Cl. 285-334.4.
Nicol, John Paul, to Asbestos Corporation. Novel lightweight asbestos containing cementitious material and process for producing the same. 3,661,603, 5-9-72, Cl. 106-90.
Nicola, Maurilio; and Luciano, Ezio, to Maezelectronics, S.n.C. Electronic antitheft device using an electronic safety lock. 3,660,831, 5-2-72, Cl. 340-274.
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Nicolaides, Ernest D., to Parke, Davis & Company. Phenylalanine derivatives for treatment of measles infections. 3,700,770, 10-24-72, Cl. 424-177.000.
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Nicolas, Yves; and Bonnet, Jean-Loup, to Schlumberger Technology Corporation. Wireline well tool anchoring system. 3,664,416, 5-23-72, Cl. 166-65.
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Nicolay, Karl, to Durkoppwerke GmbH. Thread retainer for sewing machines. 3,640,236, 2-8-72, Cl. 112-243.
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Nicolay, Karl; and Pollmeier, Konrad, to Durkoppwerke GmbH. Stacking device for flexible workpieces. 3,704,884, 12-5-72, Cl. 271-85.000.
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Nicolson, Garth Fancher; and Wilms, Carl Alfred, to Jackson, Byron, Inc. Power pipe tong with torque responsive brake means. 3,704,638, 12-5-72, Cl. 81-57.180.
Nicot, Gerard, to Creusot-Loire. Apparatus for shaping metallic pieces by shock waves. 3,662,577, 5-16-72, Cl. 72-56.000.
Nicpon, Philip E., to Standard Oil Company (Indiana). Polymerization catalysts using supported rhenium oxides. 3,661,802, 5-9-72, Cl. 252-430.
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Nieboer, Pieter Hendrik, to Demag Aktiengesellschaft. Device for distributing material into a furnace. 3,651,964, 3-28-72, Cl. 214-36.
Nieboer, Pieter Hendrik, to Demag Aktiengesellschaft. Valve packing for metallurgical shaft furnaces. 3,679,193, 7-25-72, Cl. 266-27.000.
Nieboer, Pieter Hendrik, to Demag Aktiengesellschaft. Charging device for a blast furnace. 3,680,849, 8-1-72, Cl. 266-27.000.
Nieboer, Pieter Hendrik, to Demag Aktiengesellschaft. Charging device for a metallurgical furnace. 3,693,956, 9-26-72, Cl. 266-27.000.
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Niechwiadowicz, Michal; and Finestone, Arnold B., to Foster Grant Co., Inc. Process for dyeing styrene polymers. 3,632,288, 1-4-72, Cl. 8-4.
Nieder, Berthold L. Apparatus for assembling laminations. 3,634,919, 1-18-72, Cl. 29-203.
Niederer, Kurt W.: *See—*
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Niederer, Otto C., to Aqua-Tech, Inc. Embedding cable like members. 3,638,439, 2-1-72, Cl. 61-72.4.
Niederer, Otto C. Egg stabilizer. 3,672,501, 6-27-72, Cl. 209-121.000.
Niederhauser, Warren Dexter; Belmares-Sarabia, Hector; and Bauer, William, Jr., to Rohm & Haas Company. Urethane elastomer with active hydrogen containing monoethylenically unsaturated monomer. 3,641,199, 2-8-72, Cl. 260-859.
Niederholtmeyer, F. J. Guenther. Door jack. 3,642,251, 2-15-72, Cl. 254-131.
Niedermeyer, Karl O. Emergency sump pump apparatus. 3,634,842, 1-11-72, Cl. 340-244.
Niedermiller, Herbert C.: *See—*
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Niediek, Gunter, to Schaper & Brunner K.G. Apparatus for coating discrete articles. 3,658,030, 4-25-72, Cl. 118-7.
Niedl, Georg. Impeller for heavy duty comminuting pumps. 3,640,474, 2-8-72, Cl. 241-46.02.
Niedner, Peter; Diez, Gerhard; and Thubeauville, Heinz. Process for mixing gases, liquids or finely grained solids with a carrier gas and for the manufacture of reaction products. 3,647,357, 3-7-72, Cl. 23-1.
Niedner, Peter Klaus: *See—*
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Niedorf, Carl: *See—*
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Niedrach, Leonard W.; and Grubb, Willard T., to General Electric Company. Fuel cell electrode. 3,635,763, 1-18-72, Cl. 136-86.

Niedrach, Leonard W.; and Stoddard, William H., Jr., to General Electric Company. Carbon dioxide sensor. 3,673,069, 6-27-72, Cl. 204-195.00g.

Niedrach, Leonard W.; and Stoddard, William H., Jr., to General Electric Company. Sensor with anion exchange resin electrolyte. 3,703,457, 11-21-72, Cl. 204-195.00p.

Niedrach, Leonard W.; and Grubb, Willard T., to General Electric Company. Carbon dioxide sensor. 3,705,088, 12-5-72, Cl. 204-195.00p.

Nief, Guy; and Morand, Jean-Pierre. Isotope separation apparatus. 3,673,406, 6-27-72, Cl. 250-43.000.

Niegisch, Walter D., to Union Carbide Corporation. Surface crystallized poly (2,2,4,4-tetramethyl-cyclobutanediol-1,3) carbonates. 3,674,623, 7-4-72, Cl. 161-164.

Niehaus, Conrad F. Continuous metallurgical process. 3,672,869, 6-27-72, Cl. 75-45.000.

Niehaus, Wolfgang: *See—*
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Niehuus, Hans-Christian: *See—*
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Nieland, Donald B. Portable goalpost. 3,675,922, 7-11-72, Cl. 273-55.00r.

Nielander, Henrik. Machine for mixing, plasticating and pressing out of plastics, rubber and other highly viscous materials at controlled pressure. 3,669,415, 6-13-72, Cl. 259-12.000.

Nielander, Henrik. Mixing and plasticizing machine. 3,695,585, 10-3-72, Cl. 259-5.000.

Nielander, William B., to Xerox Corporation. Electrostatic magnetic developing apparatus. 3,640,248, 2-8-72, Cl. 118-637.

Nield, Eric: *See—*
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Nield, Eric; and Rose, John Brewster, to Imperial Chemical Industries Limited. Thermoplastic compositions. 3,652,726, 3-28-72, Cl. 260-876.

Nield, Eric; and Rose, John Brewster, to Imperial Chemical Industries Limited. Vinyl chloride copolymers. 3,666,720, 5-30-72, Cl. 260-47.0ua.

Nield, Eric, to Imperial Chemical Industries Limited. Methyl methacrylate copolymers. 3,676,404, 7-11-72, Cl. 260-78.0ua.

Niels Clauson-Kaas: *See—*
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Niels Erik Guldbaek Kaiser: *See—*
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Nielsen, A. C., Company: *See—*
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Nielsen, Aage, to Nielsen, H., & Son Maskinfabrik A/S. Oil atomization burner. 3,652,017, 3-28-72, Cl. 239-453.

Nielsen, Alfred T., to Unidry K/S Engineering and Development Group. Method for briquetting grass and similar green crops. 3,653,319, 4-4-72, Cl. 100-38.

Nielsen, Anker J., Jr. Positive locking terminal bushings for flexible pipe. 3,700,268, 10-24-72, Cl. 285-55.000.

Nielsen, Arne E.: *See—*
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Nielsen, Asger T., to Compufoto, Inc. Character generator employing pulsed beam interrogation of matrix. 3,665,453, 5-23-72, Cl. 340-324.

Nielsen, Asger T., to Compufoto, Inc. Data source microfilm recorder with forms overlay. 3,677,146, 7-18-72, Cl. 95-1.100.

Nielsen, Asger T., to Compufoto Inc. Alignment system useful in computer output microfilm recorders. 3,688,654, 9-5-72, Cl. 95-1.100.

Nielsen, Christian A.: *See—*
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Nielsen, Donald R., to PPG Industries, Inc. Novel bleaching compositions and use thereof. 3,639,285, 2-1-72, Cl. 252-100.

Nielsen, Donald R., to PPG Industries, Inc. Preparation of diperphthalic acids. 3,655,738, 4-11-72, Cl. 260-502.

Nielsen, Edith M.: *See—*
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Nielsen, Edwin A.: *See—*
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Nielsen, Edwin August: *See—*
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Nielsen, Frank H. Rotatable load-bearing pendants. 3,684,078, 8-15-72, Cl. 198-33.0ab.

Nielsen, H., & Son Maskinfabrik A/S: *See—*
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Nielsen, Hans, to Vald. Henriksen A/S. Apparatus for dyeing skeins of yarn. 3,670,532, 6-20-72, Cl. 68-188.000.

Nielsen, Hans Borge: *See—*
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Nielsen Hardware Corporation, The: *See—*
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Nielsen, John K.: *See—*
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Nielsen, Knud. Piece of furniture, particularly a child's chair. 3,656,804, 4-18-72, Cl. 297-170.

Nielsen, Lars Stig, to Christian Rovsing A/S. Device for starting or stimulating heart contractions. 3,669,120, 6-13-72, Cl. 128-419.

Nielsen, Lawrence E.; and Fields, Joseph E., to Monsanto Company. Steel-reinforced composite. 3,632,792, 1-4-72, Cl. 260-41.

Nielsen, Lawrence E.; and Fields, Joseph E., to Monsanto Company. Boron-reinforced composite. 3,652,491, 3-28-72, Cl. 260-41.

Nielsen, Le Roy C., to Eastman Kodak Company. Web slack box having a rotatable web accumulator. 3,693,859, 9-26-72, Cl. 226-118.000.

Nielsen, Ole; and Beidil, Max. Method of manufacturing a foil material embossed on both sides, a roll nip and a machine for carrying out the method. 3,673,839, 7-4-72, Cl. 72-196.000.

Nielsen, Otto Sevenen. Leveling device for pool tables. 3,653,341, 4-4-72, Cl. 108-144.

Nielsen, Paul L.: *See—*
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Nielsen, Per Ostergaard, to Aktieselskabet Laur. Knudsen, Nordisk Elektricitets Selskab. Sand-filled electric fuses. 3,662,310, 5-9-72, Cl. 337-290.

Nielsen, Peter V., to Danfoss A/S. Passive temperature sensor. 3,664,193, 5-23-72, Cl. 73-368.000.

Nielsen, Richard H.; Nielsen, Edith M.; and Fetty, Joan H. Macrame loom. 3,688,357, 9-5-72, Cl. 28-15.000.

Nielsen, Robert A.: *See—*
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Nielsen, Robert N., Jr.: *See—*
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Nielsen, Robert P., to Shell Oil Company. Chemical production of metallic silver deposits. 3,702,259, 11-7-72, Cl. 117-37.00r.

Nielsen, Ruth A. Eyelet construction. 3,636,569, 1-25-72, Cl. 2-325.

Nielsen, Ruth N. Method and apparatus for sewing darts. 3,694,818, 10-3-72, Cl. 2-243.00r.

Nielsen, Soren, to Danfoss A/S. Wheel-drive system incorporating a hydraulic motor. 3,653,454, 4-4-72, Cl. 180-66.

Nielsen, Tage S., to Rite Autotronics Corporation. Capacitive pick-up means for an electrical tachometer. 3,686,569, 8-22-72, Cl. 324-126.000.

Nielsen, Thomas C.: *See—*
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Nielsen, Vagn; Lauridsen, Jens Birk; and Jensen, Kristian Stistrup, to Aktieselskabet Grindsledvaiket. Process for preparing propylene glycol alginate. 3,691,150, 9-12-72, Cl. 260-209.600.

Nielsen, Waldemar R.; and Mathias, Charles D., to Industrial Tools, Inc. Helical blade milling cutter. 3,672,017, 6-27-72, Cl. 29-105.000.

Nielson, Caldon M. Fishing pole holder. 3,669,390, 6-13-72, Cl. 248-42.000.

Nielson, Gary E., to Jackes-Evans Manufacturing Company. Temperature responsive capacity control device and system. 3,633,379, 1-11-72, Cl. 62-202.

Nielson, Jay P. Mechanical heart system. 3,636,570, 1-25-72, Cl. 3-1.

Nielson, Jay P.; and Allred, G. Allen, to Eaton Yale & Towne, Inc. Vacuum pick up head. 3,697,112, 10-10-72, Cl. 294-65.000.

Nielson, Lonnie R., to Carlon Engineering Company, Incorporated. Expansible wrist band. 3,673,795, 7-4-72, Cl. 59-80.000.

Nielson, Stephen M., to Texas Gulf Sulphur Company. Control of organic deposition in slurry heaters in potash crystallizer circuit. 3,674,442, 7-4-72, Cl. 23-299.000.

Niemand, Emil, to Robertshaw Controls Company. Timer construction means and system utilizing the same or the like. 3,652,870, 3-28-72, Cl. 307-133.

Niemann, George W.; and Shannon, Charles N., to United States of America, Navy. Digital frequency generator for coded interrogation. 3,676,780, 7-11-72, Cl. 325-155.000.

Niemann, Gert, to Bosch, Robert, G.m.b.H. Sealed battery with synthetic resin case and cover. 3,698,961, 10-17-72, Cl. 136-170.000.

Niemann, James Edward: *See—*
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Niemann, Theodore F., to Goodrich, B. F., Company, The. Process for block copolymerization of polar monomers with an organalithium compound and heterocyclic sulfur compound. 3,699,191, 10-17-72, Cl. 260-881.000.

Niemann, Theodore F., to Goodrich, B. F., Company, The. Catalytic block copolymerization of polar monomers. 3,700,756, 10-24-72, Cl. 260l881.000.
Niemanns, Gerd, to Draftex GmbH. Sealing strip. 3,665,646, 5-30-72, Cl. 49-490.
Niemeyer, Willy: *See—*
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Niemi, John C.: *See—*
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Niemi, William. Pressure applicator. 3,641,643, 2-15-72, Cl. 29-110.5.
Niemiec, Albin J.: *See—*
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Niemiec, Albin J.; and Pettibone, Raymond B., to Sperry Rand Corporation. Power transmission. 3,645,654, 2-29-72, Cl. 418-133.
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Niemoller, Arthur B.: *See—*
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Nienart, Louis F., to Allied Chemical Corporation. Novel hot-pressed refractory articles and preparation thereof. 3,705,112, 12-5-72, Cl. 252-520.000.
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Nienhuis, Rijkent Jan, to U.S. Philips Corporation. Integrated circuit having four MOSFET devices arranged in a circle surrounding a guard diffusion. 3,643,139, 2-15-72, Cl. 317-235.
Nienhuis, Rijkent Jan, to U.S. Philips Corporation. Tetrode MOSFET with gate safety diode within island zone. 3,649,885, 3-14-72, Cl. 317-235.
Nienstaedt, Robert; and Bunting, James William, to Courtaulds Engineering Limited. Process control method and apparatus for regulating temperature. 3,692,986, 9-19-72, Cl. 235-151.100.
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Niepenberg, Horst; Oppenberg, Rolf; and Kuhn, Rudolf, to Deutsche Babcock & Wilcox Aktiengesellschaft. Oil burner. 3,700,376, 10-24-72, Cl. 431-13.000.
Niepmann, Otto, to Maschinenfabrik Fr. Niepmann & Co. Feeding device for cigarettes for cigarette packing machines. 3,672,541, 6-27-72, Cl. 221-68.000.
Nier, Johannes, to Bosch, Robert, G.m.b.H. Method of making a semiconductor unit. 3,689,985, 9-12-72, Cl. 29-471.300.
Niermann, Horst: *See—*
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Nies, Nelson P.; and Hulbert, Richard W., to United States Borax & Chemical Corporation. Zinc borate of low hydration and method for preparing same. 3,649,172, 3-14-72, Cl. 23-59.
Niese, William F., to Libbey-Owens-Ford Company. Locating device. 3,673,664, 7-4-72, Cl. 29-203.00p.
Niesen, George P.; and Marum, Edward C., to Dick, A. B., Company. Apparatus for applying a conversion liquid to electrostatic copy material. 3,703,156, 11-21-72, Cl. 118-117.000.
Niestroj, Heinrich; and Tille, Hans, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Thread-guide setting device for straight-far knitting machines. 3,650,127, 3-21-72, Cl. 66-126.
Nieswandt, Werner; Linge, Hermann; Pirzer, Hans; Hoerauf, Werner; and Hetz, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous extraction of granular polyamides. 3,639,659, 2-1-72, Cl. 260-78.
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Nigg, Paul, to Ego Werke AG. Food service tray with cutlery. 3,704,779, 12-5-72, Cl. 206-47.00r.
Niggelom, Curt. Stand with carrying device. 3,705,703, 12-12-72, Cl. 248-168.000.
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Nighman, William, to Reynolds Metals Company. Method of and apparatus for continuously casting molten metal. 3,642,055, 2-15-72, Cl. 164-87.
Nightingale, Douglas Daniel; and Payne, Nigel, to Imperial Chemical Industries Limited. Valves. 3,688,798, 9-5-72, Cl. 137-625.470.
Nightingale, Paul Leslie; and Quigley, Garnet H. Laboratory bench or table. 3,650,586, 3-21-72, Cl. 312-195.
Nigrin, Mojmir: *See—*
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Nigro, Louis V., to Gillette Company, The. Metering dispensing valve. 3,647,122, 3-7-72, Cl. 222-501.
Nigro, Louis V., to Gillette Company, The. Dispensing package. 3,661,300, 5-9-72, Cl. 222-80.
Nigro, Louis V., to Gillette Company, The. Package for dispensing pressurized materials. 3,680,605, 8-1-72, Cl. 141-20.000.
Nigro, Louis V. Assembly for controlling discharge of material from a pressurized dispensing package. 3,692,215, 9-19-72, Cl. 222-402.130.
Nigro, Louis V., to Gillette Company, The. Dispensing control structure for pressurized dispensing package. 3,698,604, 10-17-72, Cl. 222-182.000.
Nigro, Louis V., to Gillette Company, The. Adjustable spray rate actuator. 3,703,994, 11-28-72, Cl. 239-397.000.
Nigro, Michael A. Pizza container. 3,650,383, 3-21-72, Cl. 206-45.31.
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Nihof, Hendrikus J.; and Borsboom, Albertus C. H., to Shell Oil Company. Method and apparatus for detecting an interface between two liquids in a pipeline. 3,640,120, 2-8-72, Cl. 73-53.
Nihon Boshoku Kogy Kabushiki Kaisha: *See—*
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Niinomi, Naoyuki, to Nippon Gakki Seizo Kabushiki Kaisha. Muscular voltage-controlled tone-modifying device. 3,704,339, 11-28-72, Cl. 84-1.240.
Niioka, Takeharu; and Hosokawa, Ryoji, to Tokyo Shibaura Electric Co., Ltd. Tape feed indicator device for a tape recorder. 3,673,351, 6-27-72, Cl. 179-100.20r.
Niiyama, Eisuke: *See—*
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Nijhof, Engbert Bernard Gerard; and Rosink, Wilhelmus Bernardus, to U.S. Philips Corporation. Arrangement for regulating the current supplied to the operative circuit of a commutating motor. 3,707,660, 12-26-72, Cl. 318-308.000.
Nijhuis, Cornelis J.: *See—*
McNamara, Bernard J.; Daniluk, Syl; and Nijhuis, Cornelis J., 3,636,677.
Nijman, John P., to Bunker-Ramo Corporation, The. Coaxial cable connector plug. 3,686,623, 8-22-72, Cl. 339-177.00e.
Nijman, John P., to Bunker-Ramo Corporation, The. Miniature connector and method of making it. 3,693,140, 9-19-72, Cl. 339-252.00p.
Nijo, Kiyoichi. Method of detecting temperature for controlling a refrigerator or a freezer. 3,641,781, 2-15-72, Cl. 62-80.
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Nikaido, Akira; Onda, Mitsuo; Nakajima, Fumio; Machida, Takayasu; and Sudo, Shunji, to Citizen Watch Co., Ltd. Synchronous transistor motor with source voltage compensation. 3,668,488, 6-6-72, Cl. 318-138.000.
Nikamura, Keiji: *See—*
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Nikanen, Klaus Kalevi, to Osakeyhtio, A. Ahlstrom. Coating method. 3,633,259, 1-11-72, Cl. 29-148.4.
Nikawitz, Edward J., to Givaudan Corporation. Bacteriostatic carbamates of bisphenols. 3,651,128, 3-21-72, Cl. 260-479.
Nikel, Pierre, to Laboratoire Phagogene. Micromist and aerosol generators. 3,638,861, 2-1-72, Cl. 239-216.
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Nikitin, Jury Ivanovich; Sokhin, Sergei Mikhailovich; and Pogorely, Boris Vakulovich. Cutting fluid for cold work. 3,654,153, 4-4-72, Cl. 252-42.1.
Nikitits, Edwin. Paper folding machine. 3,632,103, 1-4-72, Cl. 270-79.
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Nikkel, Ronnie D., to Phillips Petroleum Company. Yarn texturing apparatus. 3,650,001, 3-21-72, Cl. 28-1.6.
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Nikko Pen Kabushiki Kaisha: *See—*
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Niklarz, Manfred, to Stubbe Maschinenfabrik GmbH. Device for the spraying of shoe soles onto shoe shafts. 3,692,449, 9-19-72, Cl. 425-119.000.
Niklas, Ludwig, to Krautkramer, Dr., J. U.H., Gesellschaft fur Elektrophysik. Programmed ultrasonic pulse-echo apparatus for flaw size indication in materials testing. 3,643,495, 2-22-72, Cl. 73-67.9.
Niklas, Wilfrid F.: *See—*
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Niklaus, Ulrich; and Baumann, Dieter, to Ciba-Geigy AG. Curing agent mixtures for epoxide resins. 3,691,083, 9-12-72, Cl. 252-182.000.
Nikles, Erwin: *See—*
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Nikles, Erwin; and Pinter, Ladislaus, to Ciba Limited. Phenyl N-methyl carbamates. 3,646,026, 2-29-72, Cl. 260-247.2.
Nikles, Erwin, to Ciba Limited. Carbamates and pesticidal preparations containing them. 3,655,730, 4-11-72, Cl. 260-479.
Nikles, Erwin, to Ciba-Geigy AG. 2-Amino-4-tertiary butylamino-1,3,5-triazines. 3,676,441, 7-11-72, Cl. 260-249.800.
Nikles, Erwin, to Ciba-Geigy AG. Aminophenylcarbamates. 3,676,486, 7-11-72, Cl. 260-479.00c.
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Nikles, Francois; and Oguey, Henri T., to Centre Electronique Horloger SA. Assembly comprising an adjustable capacitor and a printed circuit. 3,656,033, 4-11-72, Cl. 317-249.
Nikoden, Joseph, to Detroit Bullet Trap Corporation. Bullet deflection apparatus. 3,701,532, 10-31-72, Cl. 273-102.400.
Nikodimov, Anatoly Pavlovich: *See—*
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Nikoghossian, Albert-Jean. Dental implant. 3,672,058, 6-27-72, Cl. 32-10.00a.
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Nikolaus, Harold W., to Armstrong Cork Company. Suspended ceiling grid joint structure. 3,633,952, 1-11-72, Cl. 287-189.36.
Nikoloff, Christian, to SCM Corporation. Spring-returned power driven ribbon. 3,665,855, 5-30-72, Cl. 101-336.000.
Nikolov, Ivan Dimov: *See—*
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Niku, Silvio D.: *See*—
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Niles, Burton M., to Tackle and Gear, Inc. Fishing pole mount. 3,691,665, 9-19-72, Cl. 43-15.000.

Niles, Donald E., to Outboard Marine Corporation. Lawn mower friction drive with slip clutch. 3,706,363, 12-19-72, Cl. 192-3.540.

Nilgens, Heinrich: *See*—
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Nilges, William C., to Parker-Hannifin Corporation. Automatic drain valve. 3,675,673, 7-11-72, Cl. 137-187.000.

Nill, Jan Erik, to Ingenjors C.G. Hansson AB. Apparatus for determining the density of a fluid. 3,688,588, 9-5-72, Cl. 73-451.000.

Nilles, James Jacob: *See*—
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Nilsen, Arnold: *See*—
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Nilsen, Arnold E., to N L Industries, Inc. Extraction of iron from titaniferous ores. 3,647,414, 3-7-72, Cl. 75-1.

Nilsen, Harold E. Adjustable chain stopper. 3,638,599, 2-1-72, Cl. 114-200.

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Nilsen, Norman P. Clamp fitting with seal for plastic pipe. 3,649,055, 3-14-72, Cl. 285-197.

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Nilssen, Ole K., to Motorola, Inc. Method and apparatus for decoupling engine accessories. 3,692,007, 9-19-72, Cl. 123-98.000.

Nilssen, Ole K., to Motorola, Inc. Isolator washer means for pushbutton tuner memory mechanism. 3,699,817, 10-24-72, Cl. 74-10.370.

Nilsson, Bertil: *See*—
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Nilsson, Bruno Yngve, to Boliden Aktiebolag. System for determining electric fields in geophysical prospecting work using synchronized clocks and direct coupled comparison means. 3,701,940, 10-31-72, Cl. 324-1.000.

Nilsson, Erland: *See*—
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Nilsson, Gosta, to Springfield Wire Inc. Hair setting apparatus. 3,705,974, 12-12-72, Cl. 219-222.000.

Nilsson, Gustav Lennart. Machine to be used as a crane, loader and/or excavator. 3,703,973, 11-28-72, Cl. 214-778.000.

Nilsson, Hans Erik, to A. B. Infrarodteknik. Reflector device. 3,654,471, 4-4-72, Cl. 250-85.

Nilsson, Hans Robert, to Svenska Rotor Maskiner Aktiebolag. Rotary internal combustion engine and sealing means therefor. 3,664,778, 5-23-72, Cl. 418-117.

Nilsson, Harry; and Larsson, Gunnar. Apparatus for disintegration and separation of soil and similar materials. 3,704,834, 12-5-72, Cl. 241-79.200.

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Larker, Hans; and Nilsson, Jan, 3,702,556.

Nilsson, Jan; and Larker, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Press for hot hydrostatic extrusion. 3,698,220, 10-17-72, Cl. 72-60.000.

Nilsson, John Lars Gunnar: *See*—
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Nilsson, John Martin: *See*—
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Nilsson, Lars Gunnar: *See*—
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Nilsson, Lars Olov; Liljegren, Nils Leo; and Victorin, Robert, to Sikob AB Svensk Industris Konstruklions- och Beraknigskontor. Divisible transport package. 3,659,707, 5-2-72, Cl. 206-65.

Nilsson, Leif Billy, to AB Emmaboda Glasverk. Machine for handling sheet glass. 3,690,477, 9-12-72, Cl. 214-8.50b.

Nilsson, Leif Billy, to AB Emmaboda Glasverk. Machines for packing sheet glass with interleaving means. 3,693,321, 9-26-72, Cl. 53-244.000.

Nilsson, Marit Gunnel Matilda; Udden, Ruth Gunvor Anna Britt; Udden, Per Edward Carl; and Wennerblom, Bengt Axel, to Svenska Cellulosa Aktiebolaget. Body-fluid absorption article. 3,654,929, 4-11-72, Cl. 128-287.

Nilsson, Nils Lennart, to Telefonaktiebolaget L M Ericsson. Phase detection circuit. 3,659,210, 4-25-72, Cl. 328-134.

Nilsson, Ove K-G, to Aktiebolaget Tudor. Lead storage battery cell electrolyte density measuring device and method. 3,684,950, 8-15-72, Cl. 324-29.500.

Nilsson, Ove Karl-Gustav: *See*—
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Nilsson, Philip. Log levelling machines. 3,645,308, 2-29-72, Cl. 144-176.

Nilsson, Philip, to Kockum Soderhamn Aktiebolag. Chipping and sawing machine. 3,692,074, 9-19-72, Cl. 144-39.000.

Nilsson, Sven Melker: *See*—
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Nilsson, Sven Walter, to Aktiebolaget Svenska Kullagerfabriken. Sealing means for a transmission mechanism. 3,643,521, 2-22-72, Cl. 74-459.

Nilsson, Sven Walter, to SKF Industrial Trading and Development Company N.V. Torque transferring device. 3,659,435, 5-2-72, Cl. 64-23.7.

Nilsson, Sven Walter, to SKF Industrial Trading and Development Company N.V. Device for re-circulating the balls of a ball screw mechanism. 3,699,823, 10-24-72, Cl. 74-459.000.

Nilsson, Vilgot Raymond, to Alfa-Laval AB. Centrifuge with sludge level sensing means. 3,642,196, 2-15-72, Cl. 233-19.

Nilsson, Vilgot Raymond, to Alfa-Laval AB. Centrifuge sludge control and method of operating same. 3,701,469, 10-31-72, Cl. 233-20.00a.

Niman, George J., to Hallingters Co., The. Self-correcting AFC system. 3,686,574, 8-22-72, Cl. 325-421.000.

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Nimerick, Kenneth H., to Dow Chemical Company, The. Inhibitor to corrosive attack and method of use. 3,692,675, 9-19-72, Cl. 252-8.55e.

Nimerick, Kenneth H., to Dow Chemical Company, The. Well treatments with thickened aqueous alcohol mixtures. 3,696,035, 10-3-72, Cl. 252-8.55r.

Nimmo, Neil Duncan. Clips. 3,697,028, 10-10-72, Cl. 248-121.000.

Nimtz, Klaus, to Palitex Project Company GmbH. Apparatus for controlling the operation of individual spindles in a yarn processing machine. 3,645,084, 2-29-72, Cl. 57-88.

Nimylowycz, Osyp: *See*—
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Nimylowycz, Osyp, to United States of America, Army. Rocket catapult ejector arrangement. 3,666,215, 5-30-72, Cl. 244-122.0ab.

Ninagawa, Sadayoshi: *See*—
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Ning, Robert Ye-Fong; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Preparation of 7-chloro-2,3-dihydro-1-methyl-5-phenyl-1H-1,4-benzodiazepine from 2,3-dihydro-1-methyl-5-phenyl-1H1,4-benzodiazepine by chlorination. 3,635,948, 1-18-72, Cl. 260-239.

Ning, Robert Ye-Fong; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 7-Azido-benzodiazepines. 3,644,334, 2-22-72, Cl. 260-239.

Ning, Robert Ye-Fong; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 5-Lower alkanoyl-2-glycylamino benzophenones. 3,686,308, 8-22-72, Cl. 260-562.00n.

Nink, Heinz, to Borsig Gesellschaft mit beschrankter Haftung. Seal for piston rods and pistons of piston machines. 3,658,348, 4-25-72, Cl. 277-58.

Ninke, William H., to Bell Telephone Laboratories, Incorporated. Time-shared computer graphics system having data processing means at display terminals. 3,653,001, 3-28-72, Cl. 340-172.5.

Nino, Fernando J.; and Cole, Donald Q., to Harvey Aluminum, (Incorporated). Adjustable draw die. 3,680,348, 8-1-72, Cl. 72-291.000.
Ninomiya, Kaneshige, to Bridgestone Tire Company Limited. Method of splicing rubber conveyer belts each having a steel cord embedded therein. 3,689,341, 9-5-72, Cl. 156-159.000.
Ninomiya, Kenji, to Kabushiki Kaisha Komatsu Seisakusho (Komatsu, Ltd.). Plunger pump or motor. 3,633,463, 1-11-72, Cl. 91-487.
Ninomiya, Kenji, to Kabushiki Kaisha Komatsu Seisakusho (Komatsu Ltd.). Means for preventing reverse drive through a hydrostatic transmission. 3,638,772, 2-1-72, Cl. 192-4.
Ninomiya, Kiyosha; and Ohara, Hideaki, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Friction material. 3,663,497, 5-16-72, Cl. 260-38.000.
Ninomiya, Kiyoshi: *See—*
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Ninomiya, Shoichi; Sakai, Masaaki; Oka, Sakae; and Kusunoki, Kikunobu, 50% to Fujitsu Limited and 50% to Nippon Telegraph and Telephone Public Corporation. Coincident-current magnetic core memory with combined inhibit and sense winding. 3,675,224, 7-4-72,Cl. 340-174.0cr.
Nipak, Inc.: *See—*
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Nishimura, Tatsumi; Nagasawa, Sumio; Shinohara, Hiroshi; and Kado, Masaru, to Kumiai Chemical Industry Co., Ltd. Certain phosphorous compounds used as insecticides, miticides and fungicides. 3,692,902, 9-19-72, Cl. 424-212.000.
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Nomura, Yoshiro. Device of walking legs for a toy animal. 3,678,617, 7-25-72, Cl. 46-149.000.
Nomura, Yukihiko, to Alps Electric Co., Ltd. Slide rheostat and push-pull switch assembly. 3,668,597, 6-6-72, Cl. 338-198.000.
Nomura, Yukihiko, to Alps Electric Co., Ltd. Control mechanism for adjustable electrical device including indicating means. 3,676,827, 7-11-72, Cl. 338-183.000.
Non-Acoustic Audio Corporation: *See—*
Salmansohn, Max A.; and La Monica, Daniel A., 3,689,709.
Nonaka, Masahide, to United States of America, Agriculture. Process for recovery of meat essences. 3,669,690, 6-13-72, Cl. 99-140.00r.
Nonn, Gerhard: *See—*
Ostwald, Fritz; Bender, Alfred; and Nonn, Gerhard, 3,678,954.
Nonnecke, Ernst A., to McMullen, John J., mesne. Apparatus for cooling and filling liquefied gas transport and storage tanks and improvements in said tanks. 3,670,517, 6-20-72, Cl. 62-45.000.
Nooi, Jacobus Roelof, to Lever Brothers Company. 2,2'-Disulfonated dialkyl sulfoxides and sulfones. 3,666,796, 5-30-72, Cl. 260-513.
Nooker, Eugene L.; Thompson, Luther G.; Varney, Glenn E.; and Dietz, Victor J., to United States of America, Navy. Continuous rod warhead. 3,690,257, 9-12-72, Cl. 102-67.000.
Noon, Alonzo W., to Electroprint, Inc. Toner charging and feeding machine. 3,677,224, 7-18-72, Cl. 118-63.000.
Noonan, Charles B.: *See—*
Snow, Gerald A.; Doughty, Harold A.; Allard, Charles E.; and Noonan, Charles B., 3,688,963.
Noonan, Robert J. Holder for pressure cylinders. 3,643,813, 2-22-72, Cl. 211-75.
Noone, Thomas M., to Richardson Company, The. Composite material and process for preparing same. 3,674,547, 7-4-72, Cl. 117-135.500.
Noordam, John Paul, Jr. Fisherman's soap. 3,666,669, 5-30-72, Cl. 252-132.000.
Noorlander, Daniel O., to Milk Producers, Inc. Sample device and method. 3,655,515, 4-11-72, Cl. 195-103.5.
Noorlander, Daniel O. Teat cup inflation. 3,659,557, 5-2-72, Cl. 119-14.36.
Noorlander, Daniel O. Teat cup inflation. 3,659,558, 5-2-72, Cl. 119-14.52.
Nooter Corporation: *See—*
Heilmann, Le Roy W., 3,685,508.
Noothout, Arend J.: *See—*
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Nor-Wear Tools, Inc.: *See—*
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Nora International Company: *See—*
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McCloskey, Chester M.; Rees, Donald E.; and Hoff, George, 3,649,546.
McCloskey, Chester M.; Rees, Donald E.; and Hoff, George, 3,649,548.
McCloskey, Chester M.; Rees, Donald E.; and Hoff, George L., 3,692,841.
Noranda Metal Industries Inc., mesne: *See—*
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Noranda Mines Limited: *See—*
Themelis, Nickolas J.; and Rawling, John R., 3,663,207.
Themelis, Nickolas J.; and Tarassoff, Peter, 3,700,431.
Vogt, John; Schmidt, Paul; and Mills, Leonard, 3,650,519.
Norberg, Gayle R., to Control Data Corporation. Adaptive data priority generator. 3,699,524, 10-17-72, Cl. 340-172.500.
Norbert, Stuttgart: *See—*
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Norbisrath, Max, to Spezial-Papiermaschinenfabrik August Alfred Krupp. Machine for winding tape-like strip onto reels. 3,650,488, 3-21-72, Cl. 242-67.3.
Norbro Corporation: *See—*
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Norco, Inc.: *See—*
Lehman, Kenneth G., 3,675,531.
Norcross, Austin S., to Norcross Corporation. Magnetically coupled viscometer. 3,677,070, 7-18-72, Cl. 73-57.000.
Norcross, Austin S., to Norcross Corporation. Detector for viscosity measuring system. 3,686,931, 8-29-72, Cl. 73-57.000.
Norcross Corporation: *See—*
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Norcross, Austin S., 3,686,931.
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Norcross, Kenneth, to Nairn-Williamson Limited. Polyurethane suede embossing. 3,632,727, 1-4-72, Cl. 264-232.
Norcross, Paul A.: *See—*
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Nord, Eric T.; Rosen, Samuel R.; Scarbrough, Don R.; Vilagi, Burton J.; and Runstadler, Peter W., Jr., to Nordson Corporation. Paint spraying method and apparatus. 3,635,400, 1-18-72, Cl. 239-15.
Nord, Sven Gustaf. Dishwasher device causing an aperiodical water flow. 3,678,957, 7-25-72, Cl. 137-268.000.
Nord-Aviation Societe Nationale de Constructions Aeronautiques: *See—*
Lavarenne, Jean, 3,648,267.
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Melquion, Henri; Stauff, Emile; and Guillot, Jean, 3,654,030.
Stauff, Emile; Guillot, Jean; Allard, Pierre; Schubert, Johannes; Topfer, Heinz; and Prier, Erich, 3,653,288.
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Salvesen, Sigbjorn; Haugen, Leif Gunnar; Haavaldsen, Johan; and Nordal, Vegard, 3,702,866.
Nordal, Vegard, to Nyegaard & Co. A/S. Process for the preparation of acylamido-2,4, 6-triiodobenzoic acids. 3,681,433, 8-1-72, Cl. 260-470.000.
Nordblom, George F.; and James, Herbert I., to ESB Incorporated. Zinc electrode containing an additive to reduce gassing at the zinc electrode in a heat sterilized silver-zinc alkaline battery. 3,639,176, 2-1-72, Cl. 136-30.
Nordbrock, Raymond E., to Motorola, Inc. Voltage regulator circuit for a brushless alternator. 3,697,859, 10-10-72, Cl. 322-28.000.
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Nordeen, Erwin E., to Whirlpool Corporation. Vacuum cleaner. 3,675,268, 7-11-72, Cl. 15-350.000.
Nordeen, Erwin E., to Whirlpool Corporation. Vacuum cleaner nozzle lifting device. 3,676,892, 7-18-72, Cl. 15-359.000.
Nordeen, Erwin E., to Whirlpool Corporation. Vacuum cleaner. 3,683,449, 8-15-72, Cl. 15-410.000.
Nordeen, Gerald C. Fishing apparatus. 3,698,121, 10-17-72, Cl. 43-43.140.
Nordell, Carl H.: *See—*
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Norden, Alexander R., to Westinghouse Electric Corporation. Electric switchgear with cover and switch interlock means and handle latching means. 3,632,917, 1-4-72, Cl. 200-42.
Norden, Alexander R., to Westinghouse Electric Corporation. Electric switchgear with contact viewing and contact mounting means. 3,636,291, 1-18-72, Cl. 200-166.
Norden, Alexander R. Thermostat. 3,665,360, 5-23-72, Cl. 337-100.000.
Norden, Alexander R., to O. Z. Electrical Manufacturing Company. Ground connector for conduit. 3,706,959, 12-19-72, Cl. 339-14.00r.
Nordenholt, George F. Caulking gun. 3,651,994, 3-28-72, Cl. 222-160.
Nordgard, Carl Sigvard, to Svenska Interpur AB. Purification assembly. 3,688,905, 9-5-72, Cl. 210-151.000.
Nordgren, Alfred A., to Dunn, W. E., Mfg. Co. Apparatus and process for making concrete pipe reinforcement member. 3,661,186, 5-9-72, Cl. 140-107.
Nordgren, Alfred A., to Dunn, W. E., Mfg. Co. Apparatus and method for cage rolling and welding. 3,678,971, 7-25-72, Cl. 140-107.000.
Nordgren, Hans Elov. Device in foldable enclosures. 3,673,638, 7-4-72, Cl. 24-19.000.
Nordgren, Ronald P.: *See—*
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Florance, Douglas A.; and Nordholm, Lloyd P., 3,651,399.
Nordin, Ivan C. Tetrahydropyrazolodiazepinone compounds and methods for their production. 3,700,657, 10-24-72, Cl. 260-239.30b.
Nordin, Lars-Erik Reinhold; and Mollerfors, Lars William Anshelm, to Stenberg-Flygt AB. Spring biased check valve for pipe branches. 3,705,602, 12-12-72, Cl. 137-512.000.
Nordine, Richard, to Copystatics Manufacturing Corporation. Automatic shut-off circuit for copying machine. 3,676,691, 7-11-72, Cl. 250-222.00r.
Nordischer Maschinenbau Rud Baader: *See—*
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Nordisk Ventilator Co., A/S: *See—*
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Nordmann, Edwin; and Tischer, Siegfried, to VEB Mikromat Dresden. Tool changing mechanism. 3,633,764, 1-11-72, Cl. 214-1.
Nordmann, Harald; and Schmidt, Kurt, to Aktiengesellschaft Brown, Boveri & Cie. Means for securing the coils of an electric machine in the slots of the iron body thereof and device for introducing the means in the slots. 3,665,576, 5-30-72, Cl. 29-205.
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Nordqvist, Karl Gustav, to Rederiaktiebolaget Nordstjernan. Radiation sensitive length measuring system. 3,655,990, 4-11-72, Cl. 250-219.
Nordseth, Marvin P.; and Hueber, Werner G., to United States of America, Navy. Electronic area correlator with multiple input signals. 3,662,104, 5-9-72, Cl. 178-6.8.
Nordsiel, Karl-Heinz, to Chemische Werke Huls Aktiengesellschaft. Process for the defined increase of the molecular weight of solid, unsaturated elastomers. 3,696,087, 10-3-72, Cl. 260-85.100.
Nordskog Company, Inc.: *See—*
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Nordskog, Robert A., to Nordskog Company, Inc. Wheel lock assembly. 3,690,415, 9-12-72, Cl. 188-69.000.
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Nordstrand, Leif Roland, to Monark-Crescent Aktiebolag. Washer systems for cleaning surfaces. 3,656,691, 4-18-72, Cl. 239-284.
Nordstrand, Leif Roland, to Kamas Kvarnmaskiner AB. Machine for separating a sheet from a sheet pile. 3,672,516, 6-27-72, Cl. 214-8.50a.
Nordstrom, Carl Gustaf. Transport of track-laying vehicles. 3,656,780, 4-18-72, Cl. 280-415.
Nordstrom, John D.; and Zelek, Carolyn B., to Ford Motor Company. Acrylic-siloxane resin paint IV. 3,650,811, 3-21-72, Cl. 117-93.31.
Nordstrom, John D.; and Zelek, Carolyn B., to Ford Motor Company. Acrylic-siloxane resin paint and painted article. 3,650,812, 3-21-72, Cl. 117-93.31.
Nordstrom, John D.; and Zelek, Carolyn B., to Ford Motor Company. Acrylic-siloxane resin paint II. 3,650,813, 3-21-72, Cl. 117-93.31.
Nordstrom, John David, to Ashland Oil, Inc. Vinyl carbamyloxy carboxylates. 3,674,838, 7-4-72, Cl. 260-482.00c.
Nordstrom, Knut Lennart. Maneuvering command display for aircraft. 3,691,520, 9-12-72, Cl. 340-27.0at.
Nordstrom, Olle: *See—*
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Nordstrom, Per Christer. Building block. 3,672,110, 6-27-72, Cl. 52-608.000.
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Nordt, Egon: *See—*
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Nordyke, Milo D., to United States of America, Atomic Energy Commission. Nuclear explosive method for stimulating hydrocarbon production from petroliferous formations. 3,688,843, 9-5-72, Cl. 166-247.000.
Noren, Carl Anders, to Atlas Copco Aktiebolag. Fluidic devices. 3,656,495, 4-18-72, Cl. 137-81.5.
Noren, Don W., to Noren Products, Inc. Method of forming a heat pipe. 3,680,189, 8-1-72, Cl. 29-157.30r.
Noren, Don W., to Noren Products, Inc. Heat pipes. 3,700,028, 10-24-72, Cl. 165-32.000.
Noren, Oscar B.: *See—*
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Noren, Don W., 3,700,028.
Noren, Tore H. Swingable comb for closing magnetic switch for controlling hot rinse water in a dishwasher. 3,668,346, 6-6-72, Cl. 200-61.410.
Noren, Tore H. Dishwashing machine and dish-conveying table with recirculating flushing trough. 3,698,407, 10-17-72, Cl. 134-60.000.
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Noreus, Sture Erik Olof; and Samuelson, Hans Olof, to Mo och Domsjo Aktiebolag. Process for treating cellulosic materials from which metal ions have been removed with alkali and oxygen in the presence of complex magnesium salts. 3,639,205, 2-1-72, Cl. 162-3.
Noreus, Sture Erik Olof; and Samuelson, Hans Olof, to Mo och Domsjo Aktiebolag. Process for treating cellulosic materials from which metal ions have been removed with alkali and oxygen in the presence of complex magnesium salts. 3,652,385, 3-28-72, Cl. 16223.
Noreus, Sture Erik Olof; and Samuelson, Hans Olof, to Mo och Domsjo Aktiebolag. Process for treating cellulosic materials with alkali and oxygen in the presence of complex magnesium salts. 3,652,386, 3-28-72, Cl. 162-65.
Norfin, Inc.: *See—*
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Norfolk, Cyril Leslie, to Fry's (London) Limited. Manufacture of saw blades. 3,685,373, 8-22-72, Cl. 76-112.000.
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Norman, Charles R., to Harris-Intertype Corporation. Heated adhesive applicator roll system. 3,706,298, 12-19-72, Cl. 118-5.000.
Norman, Donald E., to Kraftco Corporation. Package seal. 3,661,322, 5-9-72, Cl. 229-55.
Norman, Harry B. Air circulating device. 3,667,872, 6-6-72, Cl. 417-423.
Norman, Harry H., 1/2 to Baliski, Stephen. Spring assembly. 3,657,749, 4-25-72, Cl. 5-271.
Norman Industries, Inc.: *See—*
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Norman, John R., to T.I. (Group Services) Limited. Means for irradiating materials. 3,683,179, 8-8-72, Cl. 250-49.5te.
Norman, Leslie W.; Hunter, Skillman C.; and Perrone, George L., to Garrett Corporation, The. Method and apparatus for starting detonation combustion engines. 3,646,761, 3-7-72, Cl. 60-204.
Norman, Marvin Neil: *See—*
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Norman, Melvin H.; and Hawthorne, Nathaniel F., to Singer Company, The. Braking device for a tape dispenser. 3,664,597, 5-23-72, Cl. 242-75.400.
Norman, Michael Eric: *See—*
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Norman, Neville Marshall; and Morley, Derek Colebrock. Safety belts. 3,633,965, 1-11-72, Cl. 296-385.
Norman, Rayford M. Electrical capacitor assembly with replaceable units. 3,676,753, 7-11-72, Cl. 317-230.000.
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Norman, Vello; Williams, Thomas B.; Kallianos, Andrew G.; and Mold, James D., to Liggett & Myers Incorporated. Tobacco composition. 3,703,901, 11-28-72, Cl. 131-17.00r.
Norman, Victor B. Modular system of roof heater shingles. 3,691,343, 9-12-72, Cl. 219-213.000.
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Normand, Lestan P., Jr. Automatic wing stabilizer for boats. 3,648,641, 3-14-72, Cl. 114-123.
Normanton, James K., to Bakelite Xylonite Limited. Expandable insulation compositions. 3,645,929, 2-29-72, Cl. 260-2.5.

Normanton, James K., to Bakelite Xylonite Limited. Expandable compositions and products. 3,645,930, 2-29-72, Cl. 260-2.5.
Normanton, James K., to Bakelite Xylonite Limited. Blowing agent compositions. 3,645,931, 2-29-72, Cl. 260-2.5.
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Yamamura, Yuichi; Fujii, Setsuro; Okano, Atsuji; Hirata, Miyoshi; Abiko, Yasushi; Inaoka, Masato; Noroi, Reimei; Iwamoto, Mashiro; Funabashi, Shoichi; and Kaito, Takeo, 3,699,149.
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Norr, Artur Valter Leopold; and Holm, Fritz Bertil Willy, to AGA Aktiebolag. Storage device for organ transplants. 3,654,085, 4-4-72, Cl. 195-127.
Norrell, Arvin L.; and Norrell, Arvin W. Tool bar construction. 3,698,489, 10-17-72, Cl. 172-656.000.
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Norris, Alan H., to Bigelow-Sanford, Inc. Anti-static yarn and fabrics. 3,690,057, 9-12-72, Cl. 57-167.000.
Norris, Clarence G.; and Merrick, Woodrow W. Method of applying a metal plate to a refractory brick. 3,698,068, 10-17-72, Cl. 29-509.000.
Norris, Elwood S., to Medical Development Corporation. Phase lock doppler system for monitoring blood vessel movement. 3,631,849, 1-4-72, Cl. 128-2.05.
Norris Food Service, Inc.: *See—*
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Norris, George F., to United States of America, Health, Education and Welfare. Laboratory homogenizer. 3,666,187, 5-30-72, Cl. 241-90.000.
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Fane, William J.; and Sanders, Vernard W., 3,653,235.
Nee, Michael A., 3,677,131.
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Norris, James D., to Thermal Process Engineering Company. Cooking grill. 3,646,880, 3-7-72, Cl. 99-349.
Norris, Kermit A., to Leach Corporation. Derived clock circuit in a phase modulated digital data handling system. 3,636,536, 1-18-72, Cl. 340-174.1.
Norris, Kermit A., to Leach Corporation, mesne. Magnetic record and reproduce system for digital data having a NRZC format. 3,641,524, 2-8-72, Cl. 340-174.1.
Norris, Kermit A., to Leach Corporation. Split-phase adaptive decoding electronics. 3,646,546, 2-29-72, Cl. 340-347.
Norris, Leon F., to Sherritt Gordon Mines Limited. Preparation of powder metallurgy compositions containing dispersed refractory oxides and precipitation hardening elements. 3,695,868, 10-3-72, Cl. 75-206.000.
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Norton, Neil C. Method of preventing vapor lock during engine operation and of fuel leakage to carburetor after engine stoppage. 3,674,043, 7-4-72, Cl. 137-12.000.
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Nowak, Thomas A., to Kaiser Aluminum & Chemical Corporation. Process for forming a multimetallic rail device. 3,642,054, 2-15-72, Cl. 164-86.
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Noxon, Paul Adelbert, to Thorn-Bendix Limited. Measurement of visual range in fog. 3,650,627, 3-21-72, Cl. 356-4.
Noy, Jack M., to Kennecott Copper Corporation. Process for extracting molybdenum and rhenium from raw materials containing same. 3,705,230, 12-5-72, Cl. 23-15.00w.
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Noyes, Eliot F., to Mobil Oil Corporation. Suspended outdoor lighting fixture. 3,683,172, 8-8-72, Cl. 240-84.000.
Noyes, Ronald T., to Beard Industries, Inc. Automatic grain dryer. 3,636,638, 1-25-72, Cl. 34-45.
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Nozaki, Masanori: *See—*
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Nozawa, Tetsuo, to Teijin Limited. Process and apparatus for melt-spinning of polyamide. 3,632,719, 1-4-72, Cl. 214-176.
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Nugent, John B., to Massachusetts Institute of Technology. Boom system for oil containment. 3,703,084, 11-21-72, Cl. 61-1.00f.
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Nugent, Reginald F.; and Snyder, George P., to Time Research Laboratories, Inc. Apparatus for assembling flat packs. 3,666,907, 5-30-72, Cl. 219-85.
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Nuler, John N. Priming tool. 3,636,812, 1-25-72, Cl. 86-33.
Null, Cecil A.; and Klinger, Robert H., Sr. Digital/electronic logic and electromechanical control for stringed musical instruments. 3,682,036, 8-8-72, Cl. 84-317.000.
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Numata, Saburo, to Fuji Shashin Koki Kabushiki Kaisha. Exposure control system for a single lens reflex camera. 3,643,561, 2-22-72, Cl. 95-10.
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Nunley, William M. Animal tethering apparatus and the like. 3,648,664, 3-14-72, Cl. 119-120.
Nunn, Howard R. Anti-pollution chamber. 3,668,841, 6-13-72, Cl. 55-257.000.
Nunn, Robert H., to United States of America, Navy. Thrust control means for a solid propellant rocket motor. 3,691,770, 9-19-72, Cl. 60-254.000.
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Nupuf, Joseph S. Ophthalmometer device having target means independently adjustable while maintaining the corneal image in focus. 3,640,610, 2-8-72, Cl. 351-13.
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Nuse, Richard W. Device for attaching a fish hook to a fishing line. 3,675,276, 7-11-72, Cl. 24-130.000.
Nusonics, Inc., mesne: *See—*
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Nussbaum, Otto J., to Halstead Industries, Inc. Refrigeration defrost system with constant pressure heated receiver. 3,637,005, 1-25-72, Cl. 165-17.
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Nutter, Benjamin P., to Schlumberger Technology Corporation. Well tester apparatus. 3,662,825, 5-16-72, Cl. 166-152.
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Nutter, Lyle M. Latch for overhead doors. 3,702,710, 11-14-72, Cl. 292-235.000.
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N.V. Cacaofabriek de Zaan Koog Zaankijk: *See—*
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N.V. Chefaro Maatschappij: *See—*
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N.V. Chemische Fabriek "Naarden": *See—*
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N.V. Chemische Fabriek v/h Dr. A. Haagen: *See—*
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N.V. Chemische Industrie 'Synres': *See—*
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N.V. Consmetische Fabriek "Prondenta": *See—*
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N.V. Hollandse Signaalapparaten: *See—*
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N.V. Industrieele Handelscombinatie Holland: *See—*
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N.V. Industrielle Handelscombinatie: *See—*
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N.V. Ingenieursbureau voor Systemen en Octrooien "Spanstaal": *See—*
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N.V. Ingenieursbureau voor Systemen en Octrooien "Spanstaal": *See—*
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N.V. Koninklijke Nederlandsch Machinefabriek Voorheen E. H. Begemann: *See—*
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N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia: *See—*
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Nyberg, Sture, to Anstalt Europaische Handelsgesellschaft. Apparatus for automatically enciphering and/or deciphering a text consisting of multidigit dual coded characters. 3,683,513, 8-15-72, Cl. 35-4.000.
Nybo, Sigurd A., to Westinghouse Electric Corporation. Device for detection and location of failed nuclear fuel elements. 3,666,625, 5-30-72, Cl. 176-68.
Nyboer, Robert P. Resilient gate valve structure. 3,645,497, 2-29-72, Cl. 251-148.
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Nybom, Nils Goran; deceased (by Nybom, Ethel Barbro Louise; administratrix). Device for holding and guiding a bendable strip in electrophoresis. 3,666,655, 5-30-72, Cl. 204-299.000.
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Nye, Alice Wade. Central venous pressure monitor tube support arrangement. 3,636,942, 1-25-72, Cl. 128-2.05.
Nye, Eugene A., to La Barge, Inc. Nonflammable electric cable. 3,692,924, 9-19-72, Cl. 174-120.0sr.
Nye, John David, to Ferrox Iron Ltd. System for feeding grinding media to continuous attrition mill. 3,672,580, 6-27-72, Cl. 241-79.000.
Nye, John David, to Ferrox Iron Ltd. Process for grinding particulate solids. 3,698,647, 10-17-72, Cl. 241-24.000.
Nye, Lloyd N. Linearized thermistor networks. 3,652,921, 3-28-72, Cl. 323-69.
Nye, William M.; and Jones, Stanley W., to Lanier Electronic Laboratory, Inc., mesne. Privacy of dictate stations using a recorder and selection of recorders by dictate stations while maintaining privacy. 3,671,680, 6-20-72, Cl. 179-100.10r.
Nye, William M.; and Jones, Stanley W., to Lanier Electronic Laboratory, Inc. Recorder-transcriber switching apparatus. 3,705,961, 12-12-72, Cl. 179-102.1dr.
Nye, William M., to Lanier Electronic Laboratory, Inc. Unidirectional tape motion detection apparatus and automatic tape return. 3,706,859, 12-19-72, Cl. 179-100.20r.
Nyefler, Franz, to Heberlein Patent Corporation. Texturizing yarn, process and product. 3,698,177, 10-17-72, Cl. 57-140.00j.
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Nykopp, Erik A., to Oy Tampella AB. Press nip of a paper machine composed of a suction roll and a pressure roll. 3,655,507, 4-11-72, Cl. 162-358.
Nykopp, Erik A., to Oy Tampella Ab. Drying cylinder. 3,659,349, 5-2-72, Cl. 34-124.
Nykopp, Erik A., to Oy Tampella AB. Paper machine including a horizontal suction forming cylinder having multiple dewatering areas thereon. 3,671,388, 6-20-72, Cl. 162-304.000.
Nykopp, Erik A., to Oy Tampella AB. Apparatus for producing separate paper webs and combining them on a common porous belt. 3,681,193, 8-1-72, Cl. 162-304.000.
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Nysten, Bernhard P., to William Prym-Werke KG. Package with slideable display card. 3,651,935, 3-28-72, Cl. 206-66.
Nystrand, Ernst Daniel; Spencer, Harvey J.; and Ziegelhoffer, Paul, to Paper Converting Machine Company, Inc. Bag boxing a machine. 3,640,050, 2-8-72, Cl. 53-120.
Nystrand, Ernst Daniel; and McIntosh, Brian H., to Paper Converting Machine Company, Inc. Sanitary napkin and method and means of producing. 3,667,468, 6-6-72, Cl. 128-290.
Nystrand, Ernst Daniel, to Paper Converting Machine Company, Inc. Apparatus for applying adhesive seams to webs. 3,674,608, 7-4-72, Cl. 156-553.000.
Nystrand, Ernst Daniel, to Paper Converting Machine Company, Inc. System for folding napkins. 3,689,061, 9-5-72, Cl. 270-66.000.
Nystrand, Ernst Daniel, to Paper Converting Machine Company, Inc. Web winder with improved transfer. 3,697,010, 10-10-72, Cl. 242-56.00a.
Nystrom, Horace A., to Schlumberger Technology Corporation. Apparatus for facilitating the descent of well tools through deviated well bores. 3,675,478, 7-11-72, Cl. 73-152.000.
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Nystuen, David L., to Economics Laboratory, Inc. Combination aspirator and spray nozzle. 3,698,644, 10-17-72, Cl. 239-318.000.
Nystuen, Marcus I., to Economics Laboratory, Inc. Electronic control means for dispensing apparatus. 3,680,070, 7-25-72, Cl. 340-244.000.
Nyswander, Reuben E., to United States of America, Navy. Remote controlled, adjustable bandwidth low pass filter. 3,701,059, 10-24-72, Cl. 333-70.00a.
Nyul, Paul, to RCA Corporation. Angled array semiconductor light sources. 3,686,543, 8-22-72, Cl. 317-235.00n.
Nyunoya, Mizuo, to Aisin Seiki Kabushiki Kaisha. Automatic brake adjuster. 3,706,360, 12-19-72, Cl. 188-79.50p.
Nyunoya, Mizuo; and Yokoi, Masatada, to Aisin Seiki Kabushiki Kaisha. Wheel brake cylinder assembly for a hydraulic twin brake system. 3,707,210, 12-26-72, Cl. 188-345.000.
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Oakes, James A., to General Motors Corporation. Geometry for a PNP silicon transistor with overlay contacts. 3,697,828, 10-10-72, Cl. 317-235.000.
Oakes, Malcolm M., to Hughes Aircraft Company. Welding supply circuit including capacitor bleed. 3,641,306, 2-8-72, Cl. 219-113.

Oakes, Vincent; and Iles, Brian Rodney, to Pure Chemicals Limited. Dialkyltin bis(substituted mercaptides). 3,665,024, 5-23-72, Cl. 260-429.7.
Oakes, Vincent; and Cross, David F. W., to Interstab Limited, mesne. Vinyl chloride resins stabilized with metal compound-epoxy compound-phosphite combinations. 3,697,463, 10-10-72, Cl. 260-23.0xa.
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Oaks, Seibert S.; and Kita, John F., to Kennametal Inc. Grooving and cut-off tool. 3,646,649, 3-7-72, Cl. 29-96.
Oana, Katsuo. Portable fluid container. 3,632,045, 1-4-72, Cl. 239-307.
Oasis Electronics: *See—*
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Oates, Charles E., to Northrop Corporation. Fluid type rotary actuator. 3,665,835, 5-30-72, Cl. 92-121.000.
Oates, John E. Delivery of flowable materials into containers. 3,693,673, 9-26-72, Cl. 141-237.000.
Oates, William Lee, to RCA Corporation. Hermetic high-current therminal for electronic devices. 3,637,917, 1-25-72, Cl. 174-152.
Oatfield, John C.: *See—*
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Oatley, Charles W., to Cambridge Scientific Instruments Limited. Electron beam apparatus. 3,678,384, 7-18-72, Cl. 324-158.00r.
Oats, Edwin O., to Roll-A-Sheet. Method and apparatus for disposable storage and utilization of bedding materials. 3,641,600, 2-15-72, Cl. 5-37.
Oba, Harutaro; Sawazu, Toshihiko; Takeuchi, Sugio; and Chikata, Masaru, to Tokyo Electric Co., Ltd. Adding, subtracting and totaling calculator. 3,670,957, 6-20-72, Cl. 235-60.0tn.
Oba, Harutaro; Sawazu, Toshihiko; Takeuchi, Sugio; and Yamaguchi, Norio, to Tokyo Electric Co., Ltd. Adding, subtracting and totaling calculator. 3,677,464, 7-18-72, Cl. 235-60.0tk.
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O'Bara, Edward John, to American Cyanamid Company. Bromophenol isomerization. 3,681,467, 8-1-72, Cl. 260-623.00r.
Obara, Katsuji. Automatic apparatus for packaging powdered material with uniform bag weight and with dust-free operation. 3,707,172, 12-26-72, Cl. 141-59.000.
Obata, Kuniyoshi: *See—*
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Obata, Yoshiyuki, to Mitsubishi Denki Kabushiki Kaisha. Device for deicing rails. 3,648,017, 3-7-72, Cl. 219-213.
Obata, Yoshiyuki, to Mitsubishi Denki Kabushiki Kaisha. Brushless rotary electric machine. 3,683,268, 8-8-72, Cl. 322-20.000.
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Obayashi, Nobuharu, to Kabushiki Kaisha Kawai Gakki Seisakusho. Electronic musical instrument. 3,700,781, 10-24-72, Cl. 84-1.010.
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Obeda, Edward G., to Branson Instruments, Incorporated. Sonic apparatus with electrical circuit means. 3,649,420, 3-14-72, Cl. 156-580.
Obeda, Edward G., to Branson Instruments, Incorporated. Sonic or ultrasonic seaming apparatus. 3,666,599, 5-30-72, Cl. 156-380.000.
Obeda, Edward G., to Branson Instruments, Incorporated. Apparatus for joining thermoplastic members by sonic or ultrasonic energy. 3,666,602, 5-30-72, Cl. 156-580.
Obeda, Edward G., to Branson Instruments, Incorporated. Ultrasonic sealing apparatus. 3,697,357, 10-10-72, Cl. 156-510.000.
Obellianne, Pierre Marie Joseph, to Ugine Kuhlmann. Process for the preparation of N_2-dichlorophosphoryl-creatinine. 3,632,603, 1-4-72, Cl. 260-309.7.
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Obenhaus, Robert E., to Texas Instruments, Incorporated. Differential fluid level detector. 3,683,196, 8-8-72, Cl. 250-227.000.
Obenhaus, Robert E., to Texas Instruments, Incorporated. Protection system with manual reset means operable only on clearing of the fault. 3,702,418, 11-7-72, Cl. 317-13.00a.
Obenland, Clayton O.; Papetti, Stelvio; and Smith, Hampton D., Jr., to Olin Corporation. Sulfur-containing carborane derivatives and the method of preparation. 3,674,853, 7-4-72, Cl. 260-606.5.
Ober, Howard C. Riding lawn mower and leaf shredder. 3,657,865, 4-25-72, Cl. 56-13.3.
Oberai, Avtar S.: *See—*
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Oberg, Albert E.; and White, Laurence E., to Westinghouse Electric Corporation. Potted electrical component assembly. 3,663,751, 5-16-72, Cl. 178-7.8.
Oberg Manufacturing Co., Inc.: *See—*
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Oberg, Nathan B., to Zero Manufacturing Company. Floor for blast room with uniform down-draft ventilation. 3,657,991, 4-25-72, Cl. 98-32.
Oberg, Paul E.: *See—*
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Obergfell, Allen R., to Fastener Corporation. Fastener driving tool. 3,685,396, 8-22-72, Cl. 91-356.000.
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Oberhauser, Charles J., to Dynatech Corporation. Agitation method and means. 3,706,443, 12-19-72, Cl. 259-72.000.
Oberheim, Robert: *See—*
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Oberhofer, Alfred W.; Anderson, Donald R.; and Payne, Charles C., to Nalco Chemical Company. Removal and separation of metallic oxide scale. 3,664,870, 5-23-72, Cl. 134-3.000.
Oberhoff, Wolfgang: *See—*
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Oberkirch, Wolfgang; Gunther, Peter; and Pampus, Gottfried, to Farbenfabriken Bayer Aktiengesellschaft. Catalyst for the ring opening polymerisation of cyclopentene. 3,655,584, 4-11-72, Cl. 252-429.
Oberkirch, Wolfgang; Gunther, Peter; and Pampus, Gottfried, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of cis-polypentenamers. 3,687,921, 8-29-72, Cl. 260-88.20r.
Oberkircher, Frederick D., Jr.: *See—*
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Oberli, Rudolf, to Greiner Electronic AG. Automatic transfer pipette means. 3,635,094, 1-18-72, Cl. 73-423.
Oberli, Rudolf. Automatic analyzing apparatus for liquid specimens. 3,660,638, 5-2-72, Cl. 235-61.6.
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Oberly, James E.; Coless, Thomas L.; and Rimer, D. Woodrow, to Union Carbide Corporation. Welding flux composition. 3,663,313, 5-16-72, Cl. 148-23.
Obermaier, Alfred A.; and Pierman, Martin J., to Alnor Instrument Company. Air velocity measuring system and method for it calibration. 3,688,576, 9-5-72, Cl. 73-202.000.
Obermaier, Alfred A.; and Pierman, Martin J., to Alnor Instrument Company. High air velocity measuring system having thermotransducer. 3,702,566, 11-14-72, Cl. 73-204.000.
Obermaier, Frank E., to Eaton Corporation. Three position butterfly valve. 3,675,681, 7-11-72, Cl. 137-625.280.
Obermaier, Frank E., to Eaton Corporation. Dual valve construction. 3,680,597, 8-1-72, Cl. 137-630.190.
Obermaier, Georg; and Stangl, Anton, to Siemens Aktiengesellschaft. Winding mandrel. 3,680,806, 8-1-72, Cl. 242-68.000.
Obermark, John A., to Warner Electric Brake & Clutch Company. Two speed magnetic clutch drive. 3,675,747, 7-11-72, Cl. 192-48.200.
Obermayer, Arthur S., to Moleculon Research Corporation. Method and apparatus for quality control of explosive primers by characteristic X-ray emission. 3,662,882, 5-16-72, Cl. 209-111.500.
Obermeier, Frank J., to Economics Laboratory, Inc. Lubricating compositions. 3,657,129, 4-18-72, Cl. 252-251.5.
Obermeyer, James Henry: *See—*
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Oberst, Hermann; Reihs, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Vibration damped sandwich systems having interlayers of vinyl acetate-ethylene-N-butylacrylate opolymers. 3,640,833, 2-8-72, Cl. 161-165.
Oberst, Hermann; Reihs, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Vibration damped sandwich systems having interlayers of copolymers of vinyl acetate ethylene an mixtures of isononane-, isodecane- and isoundecane-carboxylic acid vinyl esters. 3,640,834, 2-8-72, Cl. 161-165.
Oberst, Hermann; Leonhard, Hofheim; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Vibration damped sandwich systems having interlayers of copolymers of ethylene and mixtures o isononane-, isodecane and isoundecane-carboxylic acid vinylesters. 3,640,835, 2-8-72, Cl. 161-165.
Oberst, Hermann; Reihs, Leonhard Hofheim; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Vibration damped sandwich systems having interlayers of vinyl acetate-ethylene copolymes. 3,640,836, 2-8-72, Cl. 161-165.
Oberst, Hermann; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Vibration damped sandwich systems having interlayers of vinyl acetate/2-ethylhexyl acrylate/ dibutyl maleate/crtonic acid copolymers. 3,674,624, 7-4-72, Cl. 161-165.000.
Oberst, Hermann; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Vibration damped sandwich systems having interlayers of vinyl acetate/N-butyl acrylate/dibutyl maleate/ crotoni acid copolymers. 3,674,625, 7-4-72, Cl. 161-165.000.
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Oberste-Berghaus, Gerhard, to Pintsch Bamag Aktiengesellschaft. Manufacturing highly concentrated nitric acid. 3,676,065, 7-11-72, Cl. 23-160.000.
Oberster, Arthur E.; and Schroeder, Ervin E., to Firestone Tire & Rubber Company, The. Stabilization of unvulcanized oil-extended interconnected linear-rubbery-polymers. 3,657,170, 4-18-72, Cl. 260-23.7.
Oberthur, Heinrich, to ITT Industries, Inc. Antiskid brake control. 3,682,513, 8-8-72, Cl. 303-21.00f.
Oberthur, Heinrich, to ITT Industries, Inc. Antiskid brake control system. 3,682,514, 8-8-72, Cl. 303-21.00f.
Oberthur, Heinrich, to ITT Industries, Inc. Anti-skid control device. 3,702,713, 11-14-72, Cl. 303-21.00f.
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Obetz, James Edgar; and Dardoufas, Kimon Constantine, to Allied Chemical Corporation. Finishing composition for multi-filament yarns. 3,681,244, 8-1-72, Cl. 252-8.800.
Obidniak, Louis. Water conditioner. 3,675,775, 7-11-72, Cl. 210-138.000.
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Oblander, Ruth, to Sew Fit Co. Flat dress form. 3,694,921, 10-3-72, Cl. 33-17.00r.
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Obrecht, Robert P.; Dao, Thomas; and Klingman, Gilbert E., to Stauffer Chemical Company. Ethylene dichloride purification by plural stage distillation. 3,634,200, 1-11-72, Cl. 203-35.
O'Brian, Ellen M. Automatic cut-off for intravenous equipment. 3,656,505, 4-18-72, Cl. 137-399.
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O'Brien, Dennis M.: *See—*
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O'Brien, Dennis M., to Ecodyne Corporation, mesne. Method and apparatus for regenerating mixed beds of ion exchange resins. 3,660,282, 5-2-72, Cl. 210-33.
O'Brien, Dennis M.; and Miller, Cole R., to Ecodyne Corporation. Method and apparatus for water softening. 3,676,336, 7-11-72, Cl. 210-25.000.
O'Brien, Donald G.; and Walker, Edward R., to O'Brien, D. G., Inc. Underwater disconnectible connector. 3,641,479, 2-8-72, Cl. 339-94.
O'Brien, Edward M. Extensible and retractable support. 3,637,184, 1-25-72, Cl. 248-279.
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O'Brien, Jay Philip; and Rachlin, Albert Israel, to Hoffmann-La Roche Inc. Anti-microbial phenyl 3-halopropargyl ethers. 3,686,331, 8-22-72, Cl. 260-612.00d.

O'Brien, John A., to United States of America, Navy. Floating suction head. 3,690,463, 9-12-72, Cl. 210-242.000.
O'Brien, John C.; deceased (by O'Brien, Violet D.; executrix), to Jack-O-Line Corporation. Veneer tenderizing apparatus. 3,678,974, 7-25-72, Cl. 144-2.00r.
O'Brien, John D.: *See—*
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O'Brien, John W. Mechanical ladle. 3,650,423, 3-21-72, Cl. 214-149.
O'Brien, Kevin C., to Bell Telephone Laboratories, Incorporated. Bridge circuit utilizing pulse echo technique. 3,704,410, 11-28-72, Cl. 324-58.00a.
O'Brien, Kevin Christopher, to Bell Telephone Laboratories, Incorporated. Apparatus for use in measuring phase dispersion produced by apparatus or a system. 3,675,136, 7-4-72, Cl. 328-133.000.
O'Brien, Loren J. Differential transmission. 3,657,935, 4-25-72, Cl. 74-711.000.
O'Brien, Merril N.; and Turbak, Albin F. Dry sausage casing. 3,645,760, 2-29-72, Cl. 99-176.
O'Brien, Michael; Goddard, Wilson B.; and Williams, Rodney B., to University of California, The Regents of the. Sampler for fruits or vegetables in bulk and method of sampling fruits or vegetables in bulk. 3,683,702, 8-15-72, Cl. 73-42.00r.
O'Brien, Peter Glavey. Roadside marker extension. 3,636,913, 1-25-72, Cl. 116-114.
O'Brien, Robert J.; Woodall, Norman B.; and Anderson, Donald H., to Eastman Kodak Company. Device for determining that an unexposed film is developed by the proper process. 3,639,061, 2-1-72, Cl. 356-72.
O'Brien, Robert J., to Eastman Kodak Company. Pre-splice film cleaner. 3,655,473, 4-11-72, Cl. 156-157.
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O'Brien, Thomas Edward, to Owens-Illinois, Inc. Low voltage pulser circuit for driving row-column conductor arrays of a gas discharge display capable of being made in integrated circuit form. 3,673,431, 6-27-72, Cl. 307-241.000.
O'Brien, Thomas Edward, to Owens-Illinois, Inc. High voltage pulser circuit for driving row-column conductor arrays of a gas discharge display capable of being made in integrated circuit form. 3,706,892, 12-19-72, Cl. 307-241.000.
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O'Brien, Walter F., 50% to Cucchiara, Philip M. Harpsichord with sustain mechanism. 3,677,124, 7-18-72, Cl. 84-258.000.
Obsarny, Theodore J., to Guardian Electric Manufacturing Company. Sequence relay. 3,689,857, 9-5-72, Cl. 335-165.000.
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Obuchi, Satoru; Fukuoka, Tokuji; Nagato, Saburyo; Murakami, Kunio; Shigeta, Tamikazu; and Hayashi, Hiroyuki, to Nippon Rayon Kabushiki Kaisha. Process for pre-treating glass fibers for reenforcing rubber articles. 3,682,687, 8-8-72, Cl. 117-72.000.
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Occhipinti, Carl; and Cakora, Dennis R., to Bunker-Ramo Corporation, The. Controlled insertion force receptacle for flat circuit bearing elements. 3,638,167, 1-25-72, Cl. 339-74.
Occhipinti, Peter W. Selectively contourable putting green. 3,690,673, 9-12-72, Cl. 273-176.00h.
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Ochi, Shikanosuke, to Sega Enterprises Inc. Bombing apparatus wherein virtual images of the trajectory and land appear and are shot at when aligned. 3,635,477, 1-18-72, Cl. 273-101.2.
Ochi, Takashi, to Yayo Plastic Yoki Co., Ltd. Apparatus for forming hollow tube. 3,671,360, 6-20-72, Cl. 156-466.000.
Ochiai, Chiaki; and Fujii, Takashi, to Aisin Seiki Kabushiki Kaisha. Master cylinder for hydraulic braking system. 3,662,552, 5-16-72, Cl. 60-54.60e.
Ochiai, Kohei; and Kato, Kiyoakira, to Olympus Optical Co., Ltd. Photographic camera having one or more detachable magazines. 3,653,309, 4-4-72, Cl. 95-24.
Ochiai, Takeshi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Control system for preventing the skidding of vehicles. 3,705,748, 12-12-72, Cl. 303-21.0be.
Ochiai, Tuguo, to Tokyo Roki Kabushiki Kaisha. Filter paper for oil filters. 3,640,839, 2-8-72, Cl. 162-129.
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Ocker, Herbert, to Werner & Pfleiderer. Screw-type heat exchanger. 3,688,837, 9-5-72, Cl. 165-87.000.
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Ocone, Luke Ralph, to Pennwalt Corporation. Extrudable polytetrafluoroethylene powder. 3,692,759, 9-19-72, Cl. 260-92.100.
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O'Connell, Reid J.; and Van Campen, John H., to Eastman Kodak Company. Method for preparing silver halide layers having uniform constant throughout. 3,632,373, 1-4-72, Cl. 117-34.
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O'Connor, Alton J., to Walbro Corporation. Fuel pump bellows construction. 3,703,342, 11-21-72, Cl. 417-326.000.
O'Connor, Brian R., to Du Pont de Nemours, E. I., and Company. (4,4-Dialkoxy-2,5-cyclohexadienylidene)-malononitriles. 3,636,054, 1-18-72, Cl. 260-340.7.
O'Connor, Brian Russ, to Du Pont de Nemours, E. I., and Company. α-Cyano-1,3-dithiolane--thionoacetic acid derivatives and process for preparing the same. 3,637,749, 1-25-72, Cl. 260-327.
O'Connor, Chadwell. Tiedown device. 3,677,509, 7-18-72, Cl. 248-187.000.
O'Connor, Chadwell. Steam boiler. 3,703,161, 11-21-72, Cl. 122-235.00r.
O'Connor, Charles A.; and Maehr, Richard J. Means for taking up slack in lead screw devices. 3,703,835, 11-28-72, Cl. 74-441.000.
O'Connor, Daniel G., to Singer Company, The. Computer. 3,665,411, 5-23-72, Cl. 340-172.5.
O'Connor, Daniel G., to Singer Company, The, mesne. Two stage sorting system using two-line sorting switches. 3,685,024, 8-15-72, Cl. 340-172.500.
O'Connor, David E., to Ciba-Geigy Corporation. Dyeable polypropylene fibers. 3,642,955, 2-15-72, Cl. 260-895.
O'Connor, James E., to National Cash Register Company, The. Optical storage medium and method of making and using. 3,701,118, 10-24-72, Cl. 340-173.0ls.
O'Connor, James J.: *See*—
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O'Connor, Joseph M., to Peerless of America, Incorporated. Heat exchangers. 3,692,105, 9-19-72, Cl. 165-181.000.
O'Connor, Lawrence T.; Brierley, James A.; and Bhappu, Roshan B., to Regents, New Mexico Institute of Mining and Technology, The. Bacterial leaching process. 3,679,397, 7-25-72, Cl. 75-101.000.
O'Connor, Maurice J.; and Davidson, Donald J., to Sperry Rand Corporation. Power transmission. 3,675,676, 7-11-72, Cl. 137-501.000.
O'Connor, Michael Niall: *See*—
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Ohashi, Shin-Ichi; and Nomoto, Hiroshi, to Hitachi, Ltd. Series-shunt type semiconductor switching circuit. 3,636,378, 1-18-72, Cl. 307-251.
Ohashi, Takao: *See—*
Nitda, Taro; Yumoto, Hiroshi; Tsuruoka, Takashi; Hammoto, Kazuko; Shomura, Takashi; and Ohashi, Takao, 3,678,159.
Ohashi, Tamaki. Antenna selection and impedance matching apparatus. 3,699,451, 10-17-72, Cl. 325-368.000.
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Ohata, Keiichi: *See—*
Chujo, Kiyoshi; Tanaka, Kazunobu; and Ohata, Keiichi, 3,634,366.
Ohayon, Gabriel, to Societe Rhodiaceta. Apparatus for the manufacture of texturized threads. 3,665,566, 5-30-72, Cl. 28-1.4.
Ohdachi, Yoshio: *See—*
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Ohdan, Kyoji: *See—*
Yamada, Keisho; Umemura, Sumio; Ohdan, Kyoji; Hidaka, Mikio; Fukuda, Kazuo; and Sawazi, Masao, 3,688,002.
Ohe, Keitaro; Nishio, Daijiro; and Sadamatsu, Shigeru, to Fuji Photo Film Co., Ltd. Suspension polymerization in the presence of α-methyl styrene. 3,647,773, 3-7-72, Cl. 260-88.7.
Ohe, Shuzo, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Method and an apparatus for separation of azeotropic mixtures by distillation using salt effect. 3,681,203, 8-1-72, Cl. 203-53.000.
Oherg Manufacturing Company, Inc.: *See—*
Hough, Robert J., 3,691,601.
Ohfuji, Mitsuo: *See—*
Shimada, Hiroshi; Nagai, Mitsuru; Ohfuji, Mitsuo; and Sasaki, Toshiyuki, 3,690,305.
Ohfuji, Yoshio; and Eguchi, Tamotsu, to Kuraray Co., Ltd. Process for the production of aromatic polybenzimidazoles. 3,655,632, 4-11-72, Cl. 260-78.4.
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Ohfuka, Toshio; Sato, Hideo; and Sagara, Kazunori, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for the manufacture of acrylonitrile synthetic fibers. 3,636,187, 1-18-72, Cl. 264-182.
Ohfuka, Toshio; Ichikawa, Yasushi; and Sugaya, Yoshiharu, to Asahi Kasei Kogyo Kabushiki Kaisha. Acrylic fiber. 3,651,013, 3-21-72, Cl. 260-49.
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Ohfuka, Toshio; Ichikawa, Yasushi; and Ueda, Takeshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Antistatic treating agent from polyepoxide-polyamine reaction. 3,691,110, 9-12-72, Cl. 260-2.0ep.
Ohga, Shizuo; Yasutomi, Hideatsu; and Fujita, Masuo. 2,2'-Dichlorodiisopropyl ether as a nematocide. 3,705,252, 12-5-72, Cl. 424-342.000.
Ohgoshi, Akio: *See—*
Tachikawa, Takuji; Ohgoshi, Akio; Yoshida, Susumu; Nakayama, Akira; and Ishii, Eiji, 3,638,063.
Yoshida, Susumu; Ohgoshi, Akio; Miyaoka, Senri; and Katagiri, Yoshiharu, 3,678,318.
Ohgushi, Katunori: *See—*
Miyama, Hajime; Harumiya, Noriho; Nakao, Mituru; Kimura, Mutsumi; Ito, Isao; and Ohgushi, Katunori, 3,682,800.
Ohhara, Katsunobu: *See—*
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Ohhashi, Azusa: *See—*
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Ohi, Reiichi: *See—*
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Ohi, Reiichi; Kondo, Tokiharu; Sugiyama, Mitsunori; and Syoji, Ishiguro, to Fuji Photo Film Co., Ltd. Silver halide emulsion sensitized with noble metal and sugar mercapto compound. 3,635,717, 1-18-72, Cl. 96-108.
Ohi, Reiichi; Kondo, Tokiharu; Shirasu, Kazuo; and Ono, Yoshiaki, to Fuji Photo Film Co., Ltd. Color photographic light sensitive materials having improved light fastness. 3,707,375, 12-26-72, Cl. 96-84.00r.
Ohie, Koichi: *See—*
Mori, Yoichi; Marumo, Nagayuki; Noburu, Fukazawa; and Ohie, Koichi, 3,701,623.
Ohie, Koichi; and Enomoto, Koji, to Nissan Motor Company, Limited. Lubricating circuit of an automotive power transmission. 3,667,228, 6-6-72, Cl. 60-54.
Ohie, Koichi; and Enomoto, Koji, to Nissan Motor Company, Limited. Parking brake. 3,703,941, 11-28-72, Cl. 188-31.000.
Ohinata, Sadahiro, to Showa Tsusho Co., Ltd. Instrument-board lighter. 3,643,062, 2-15-72, Cl. 219-265.
Ohio Brass Company, The: *See—*
Kalb, John W., 3,678,340.
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Valentine, Alan T., 3,642,096.
Ohio Decorative Products, Inc.: *See—*
Neuman, Charles E.; and Shank, Leland R., 3,697,727.
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Minchenko, Hildegard M.; and Kendall, Lytton A., Jr., 3,643,483.
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St. Pierre, George R., 3,690,808.
Toth, Louis S.; and Collins, Stuart A., Jr., 3,664,723.
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Ohira, Atsuo. Zigzag sewing machine with a control device for varying the overstitch width. 3,690,274, 9-12-72, Cl. 112-158.00r.

Ohira, Banri, to Howa Kogyo Kabushiki Kaisha. Bolt of bolt-action firearms. 3,631,620, 1-4-72, Cl. 42-16.

Ohira, Fukuichi; Matsumura, Toshikazu; and Shiode, Chuji, to Chisso Corporation. Degradative polyolefin composition. 3,642,761, 2-15-72, Cl. 260-93.7.

Ohira, Shigemasa; Hanzawa, Hisoshi; and Narita, Hisaya, to Sony Corporation. Bulk eraser with permanent magnet flux produced obliquely to cassette movement. 3,660,727, 5-2-72, Cl. 317-157.5.

Ohira, Tsunehisa, to Victor Company of Japan, Limited. Operation device for cassette type tape recorder. 3,689,077, 9-5-72, Cl. 274-4.00e.

Ohiwa, Hitoshi: *See—*
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Ohiwa, Katsuhiko: *See—*
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Ohkawa, Masaaki; Matsuo, Masatoshi; Sakaguchi, Tadao; and Sato, Syozi, to Sumitomo Chemical Company Ltd. 4,4'-Bis(2-β-sulfoethylamino-4-amine-1,3, 5-triazine-6-ylamino) stilbene-2,2'-disulfonic acids. 3,682,907, 8-8-72, Cl. 260-240.00b.

Ohkawa, Tihiro, to United States of America, Atomic Energy Commission, mesne. Apparatus for forming and containing plasma. 3,692,626, 9-19-72, Cl. 176-3.000.

Ohkawa, Tokio: *See—*
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Ohki, Akinori: *See—*
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Ohki, Eiji; and Oida, Sadao, to Sankyo Company, Limited. Process for producing N-acyl 3,4-epoxy-pyrrolidine derivatives. 3,657,274, 4-18-72, Cl. 260-326.3.

Ohki, Haruo. Motor driven rotatable drum chance device. 3,650,535, 3-21-72, Cl. 273-143.

Ohki, Haruo. Motor driven rotatable drum chance device. 3,655,199, 4-11-72, Cl. 273-143.

Ohki, Haruo. Motor driven rotatable drum chance device. 3,658,340, 4-25-72, Cl. 273-143.

Ohki, Hayashi: *See—*
Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; Kurita, Kunio; Ohki, Hayashi; Sato, Kunio; Nagamatsu, Kazuo; and Tokushige, Akira, 3,654,228.

Ohki, Kusuo: *See—*
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Ohki, Makoto; Irie, Hisashi; and Okamoto, Kazuo, to Kanegafuchi Boseki Kabushiki Kaisha. Composite polyacrylonitrile fiber. 3,639,204, 2-1-72, Cl. 161-173.

Ohki, Masanaga: *See—*
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Ohkita, Masao, to Alps Electric Co., Ltd. Play-free knob for a push-button switch. 3,681,555, 8-1-72, Cl. 200-172.00r.

Ohkita, Masao, to Alps Electric Co., Ltd. Alternate action mechanism with driving member movable out of engagement with latching channel in unlatched position. 3,697,713, 10-10-72, Cl. 200-153.00j.

Ohkita, Masao, to Alps Electric Co., Ltd. Slidable contact member for minature swiich. 3,699,292, 10-17-72, Cl. 200-166.00j.

Ohkoshi, Seiichi: *See—*
Takaoka, Takashi; Ohkoshi, Seiichi; and Unno, Yoichi, 3,649,124.

Ohkoshi, Takanori. Method for photographing and reproducing three-dimensional images. 3,688,045, 8-29-72, Cl. 178-6.500.

Ohkubo, Hideyo: *See—*
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Ohkubo, Hiroyuki; and Saotome, Shigeo, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha and Daido Seiko Kabushiki Kaisha. Stripper guide. 3,688,541, 9-5-72, Cl. 72-250.000.

Ohkubo, Kinji; Noguchi, Junpei; and Masuda, Takao, to Fuji Shashin Film Kabushiki Kaisha. Heat developable light-sensitive elements. 3,635,719, 1-18-72, Cl. 96-114.1.

Ohkubo, Kinji; Masuda, Takao; and Noguchi, Junpei, to Fuji Photo Film Co., Ltd. Thermally developable light-sensitive elements. 3,645,739, 2-29-72, Cl. 96-67.

Ohkubo, Kinji; and Hayashi, Katsumi, to Fuji Photo Film Co., Ltd. Rapid stabilization process for photographic silver halide materials. 3,663,227, 5-16-72, Cl. 96-61.

Ohkubo, Kinji; Noguchi, Junpei; and Ohmura, Kunioki, to Fuji Photo Film Co., Ltd. Process of precipitating silver halide in the presence of a colloid and a water-soluble iron salt. 3,672,901, 6-27-72, Cl. 96-94.000.

Ohkubo Kinji; Hayashi, Katsumi; and Sano, Kazuya, to Fuji Photo Film Co., Ltd. Photographic negative material for color diffusion transfer process. 3,676,124, 7-11-72, Cl. 96-29.00d.

Ohkubo, Kinji; Noguchi, Junpei; and Masuda, Takao, to Fuji Photo Film Co., Ltd. Process for producing silver salt of benzotriazole. 3,699,114, 10-17-72, Cl. 260-299.000.

Ohkubo, Nobuo: *See—*
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Ohkura Electric Co., Ltd.: *See—*
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Ohlbaum, Robert A.; Zanis, Charles A.; and Crisci, Joseph R., to United States of America, Navy. Titanium and titanium alloy with lubricant coated surface. 3,653,940, 4-4-72, Cl. 117-26.

Ohlhaber, Ronald L.: *See—*
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Ohlhaver, Jon: *See—*
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Ohlin, Bror Eric Gustav, to Aktiebolaget Electrolux. Storage rack. 3,647,079, 3-7-72, Cl. 211-176.

Ohlin, Bror Eric Gustav, to Aktiebolaget Electrolux. Latch for detachably connecting structural parts. 3,659,884, 5-2-72, Cl. 287-189.36.

Ohlin, Lars Erik; and Lofvenmark, Jan Olof, to Linson Instrument Aktiebolag. Method and apparatus for photometric analysis. 3,663,823, 5-16-72, Cl. 250-218.

Ohlinger, Manfred: *See—*
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Ohlschlager, Hans: *See—*
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Ohlschlager, Hans; and Riester, Oskar, to Agfa-Gevaert Aktiengesellschaft. Sensitisation of layers made of polymers which can be cross-linked by the action of light. 3,650,756, 3-21-72, Cl. 96-91.

Ohlschlager, Hans; Riester, Oskar; and Meckl, Heinz, to Agfa-Gevaert Aktiengesellschaft. Spectrally sensitized light sensitive material. 3,702,767, 11-14-72, Cl. 96-127.000.

Ohlson, Arvid T.; and Tall, Kenneth I., to Kenco Products Corporation. Dispenser having valves actuated by yoke shaped lever. 3,651,991, 3-28-72, Cl. 222-144.5.

Ohlsson, Jarl-Erik, to Sisenca S.A. Roof constructions. 3,633,659, 1-11-72, Cl. 165-56.

Ohlsson, Kurt L. Means for suspending files or folders in a filing cabinet. 3,680,938, 8-1-72, Cl. 312-184.000.

Ohlsson, Leonard W.: *See—*
Clearman, Jack F.; Ohlsson, Leonard W.; and Mackin, Michael H., 3,662,564.

Ohlsson, Leonard W.; and Von Arb, Edward J., to Whirlpool Corporation. Water pump with air lock breaking means. 3,707,334, 12-26-72, Cl. 415-121.000.

Ohlsson, Nils C. Fuel mixing and vaporizing device for internal combustion engines. 3,645,243, 2-29-72, Cl. 123-122.

Ohlsson, Olof Axel. Saw tooth. 3,651,841, 3-28-72, Cl. 143-133.

Ohlswager, Stanley, to Atlantic Richfield Company. Method for cooling the reactor effluent from the oxidation of meta-or para-xylene. 3,665,033, 5-23-72, Cl. 260-524.00r.

Ohm, Edward Allen; Ring, Douglas Harned; and Trambarulo, Ralph Francis, to Bell Telephone Laboratories, Incorporated. Multiple-section, subdivided two-coordinate optical beam deflectors. 3,666,350, 5-30-72, Cl. 350-150.

Ohm, Klaus; and Weder, Joseph, to Schramm Lack- und Farbenfabriken Aktiengesellschaft. Electro-insulating varnishes. 3,645,900, 2-29-72, Cl. 252-63.7.

Ohmachi, Yoshiro: *See—*
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Uchida, Naoya; Ohmachi, Yoshiro; Niizeki, Nobukazu; Miyazawa, Shintaro; and Iwasaki, Hiroshi, 3,671,103.

Ohmae, Kenji; Hirano, Tomiyoshi; and Akaishi, Takao, to Tokyo Shibaura Electric Co., Ltd. Reflector type incandescent lamps. 3,662,208, 5-9-72, Cl. 313-112.000.

Ohmart Corporation, The: *See—*
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Cahill, Bonaventure B.; and Lyon, Wilfred W., 3,668,399.

Ohmega Laboratories: *See—*
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Ohmi, Atsushi: *See—*
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Ohmori, Koichiro. Apparatus for forming longitudinal corrugations in sheet material. 3,692,615, 9-19-72, Cl. 425-370.000.

Ohmori, Koichiro, to Honshu Paper Company. Method for manufacturing a composite corrugated paper board. 3,700,518, 10-24-72, Cl. 156-152.000.

Ohmura, Einosuke: *See—*

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Ohmura, Jukichi: *See—*
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Ohmura, Ryjichi. Integral guide device for fishing lines. 3,690,027, 9-12-72, Cl. 43-24.000.
Ohmura, Satoshi: *See—*
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Ohmura, Tadayoshi: *See—*
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Ohneda, Tohru: *See—*
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Ohnishi, Shigekazu; Nishishita, Masaharu; and Takimoto, Hisateru, to Kuraray Co., Ltd. Method for manufacturing sheet material exhibiting a highly glossy surface. 3,703,403, 11-21-72, Cl. 117-64.00c.
Ohnishi, Shinji: *See—*
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Ohnishi, Takanobu: *See—*
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Ohnishi, Toshimi; Suzuki, Takamitsu; Takahashi, Akio; Yagi, Hiroshi; and Ohya, Shunichi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Process for cold plastic forming of spaced tooth-like projections on a ring or similarly shaped member. 3,688,549, 9-5-72, C. 72-334.000.
Ohniwa, Kazuhiro; and Ishikawa, Seiiti, to Kabushiki Kaisha Tadano Tekkosho. Extension means of a multistage extensible boom. 3,633,460, 1-11-72, Cl. 91-411.
Ohno, Isamu; Kobayashi, Akio; Ohte, Akira; Tamuki, Minoru; and Ohta, Susumu, to Yokogawa Electric Works, Ltd. Electric controller systems with manual and automatic mode. 3,655,992, 4-11-72, Cl. 307-87.
Ohno, Junji, to Nippon Gakki Seizo Kabushiki Kaisha. Multiple switch for electronic musical instruments. 3,633,145, 1-4-72, Cl. 338-69.
Ohno, Junji, to Nippon Gakki Seizo Kabushiki Kaisha. Keying system for electronic musical instruments. 3,652,774, 3-28-72, Cl. 84-1.24.
Ohno, Junji, to Nippon Gakki Seizo Kabushiki Kaisha. Key switch assembly for electronic musical instruments. 3,671,658, 6-20-72, Cl. 84-1.010.
Ohno, Junji, to Nippon Gakki Seizo Kabushiki Kaisha. Key guide for electronic musical instrument. 3,693,492, 9-26-72, Cl. 84-436.000.
Ohno, Kiyotaka: *See—*
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Ohno, Masao; and Kijima, Katsumi, to Nippon Kogaku K.K. Ultraviolet ray cutting pink glass for color photography. 3,671,277, 6-20-72, Cl. 106-47.00q.
Ohno, Richard J., to Sargent & Company. Fish mouth implements. 3,675,359, 7-11-72, Cl. 43-53.500.
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Ohno, Tomeji; Takahashi, Masao; Akashi, Tsuneo; and Tsubouchi, Norio, to Nippon Electric Company, Limited. Piezoelectric ceramics. 3,654,160, 4-4-72, Cl. 252-62.9.
Ohno, Toshihiko, to Rion Kabushiki Kaisha. Viscometer. 3,675,470, 7-11-72, Cl. 73-59.000.
Ohno, Yasuhisa: *See—*
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Ohno, Yoshio; Eda, Korekiyo; Tamamura, Toshio; and Yamasaki, Kosaburo, to Kanegafuchi Boseki Kabushiki Kaisha. Apparatus for preparing a multi-layer structure. 3,687,784, 8-29-72, Cl. 156-500.000.
Ohnsorge, Horst: *See—*
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Ohnsorge, Horst; and Wagner, Winfried, to Telefunken Patentverwerlungsgesellschaft m.b.H. Method for detecting interference in frequency shift data transmission system. 3,683,278, 8-8-72, Cl. 325-42.000.
Ohntrup, Frederick F.; Truemper, John P.; and Smith, Billy C., to Eaton Yale & Towne, Inc. Photoelectric motor control. 3,641,413, 2-8-72, Cl. 318-480.
Ohntrup, Frederick F.; and Pecsi, Louis E., to Eaton Yale & Towne, Inc. Photoelectric control for load handling device. 3,672,470, 6-27-72, Cl. 187-1.000.
Ohnuma, Kiyoshi: *See—*
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Uozumi, Sumio; Sakai, Ichio; and Ohnuma, Kiyoshi, 3,703,110.
Ohnuma, Kiyoshi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Hydraulic control system for an automatic transmission for a motor vehicle. 3,643,527, 2-22-72, Cl. 74-868.
Ohnuma, Yoshiro: *See—*
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Ohorodnik, Alexander: *See—*
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Ohya, Minoru; and Kogaki, Keiji, to Toyota Jidosha Kogyo Kabushiki Kaisha. Hydraulic control system for an automatic transmission. 3,651,714, 3-28-72, Cl. 74-867.

Ohya, Shoichi, to Kabushiki Kaisha Yamadakuma Senkojo. Continuous steam-heating method and apparatus for continuously treating or dyeing cotton and other fibers. 3,660,014, 5-2-72, Cl. 8-149.1.

Ohya, Shunichi: *See—*
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Ohyama, Yasushi; Futaki, Kiyoshi; and Tosa, Senji, to Mitsubishi Paper Mills, Ltd. Diffusion transfer process. 3,702,246, 11-7-72, Cl. 96-29.00r.

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Oikawa, Mitsuru; Tamura, Shozo; and Okabe, Tadao, to Hitachi, Ltd. Method for producing a composite shadow mask. 3,688,359, 9-5-72, Cl. 29-25.140.

Oikawa, Takashi; and Fujimoto, Takeshi, to Showa Denko Kabushiki Kaisha. Powderless etching bath. 3,689,417, 9-5-72, Cl. 252-79.300.

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Oimoen, Anders. Portable grinder. 3,673,744, 7-4-72, Cl. 51-177.000.

Oishi, Asao; Yabuki, Takashi; and Morigutt, Kazuo, to Hitachi, Ltd. Apparatus for detection of liquid level in transparent tube comprising photocell located to receive light which has been totally reflected. 3,636,360, 1-18-72, Cl. 250-218.

Oishi, Asao; Doi, Takao; and Ueno, Yoshimasa, to Hitachi, Ltd. Water turbine operation method and system. 3,658,436, 4-25-72, Cl. 415-1.

Oishi, Asao; and Sashino, Shozzo, to Hitachi, Ltd. Control device for stopping rotation of water turbine. 3,669,560, 6-13-72, Cl. 415-41.000.

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Oishi, Kazuo, to Nippondenso Kabushiki Kaisha. Contactless ignition system for internal combustion engine. 3,653,367, 4-4-72, Cl. 123-148.

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Oishi, Kazuo, to Nippondenso Kabushiki Kaisha. Capacitor discharge type ignition system for internal combustion engines. 3,665,908, 5-30-72, Cl. 123-148.

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Oishi, Kenzaburo, to Toyoda Koki Kabushiki Kaisha. Grinding machine. 3,683,558, 8-15-72, Cl. 51-101.000.

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Oisi, Saburo. Apparatus for centrifugally separating impurities from fluid suspensions. 3,696,934, 10-10-72, Cl. 210-512.

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Ojala, William K., to Ford Motor Company. System for controlling air and fuel temperature. 3,672,342, 6-27-72, Cl. 123-122.00b.

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Oka, Shunzo, to Matsushita Electric Industrial Co., Ltd. Sliding-type variable resistor. 3,639,880, 2-1-72, Cl. 338-183.

Oka, Shunzo; and Miyashita, Akitoshi, to Matsushita Electric Industrial Co., Ltd. Lever-operated variable resistor. 3,699,493, 10-17-72, Cl. 338-132.000.

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Oka, Tsumoru, to Alps Electric Co., Ltd. Electric switch with improved cam operated pivoted contact. 3,668,345, 6-6-72, Cl. 200-6.0bb.

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Olivieri, George, 30% to Rowan, Thomas M. Display device. 3,706,149, 12-19-72, Cl. 40-106.220.
Olivotto, Vanfrido. Conveyor devices. 3,670,866, 6-20-72, Cl. 198-33.0ac.
Olivotto, Vanfrido. Apparatus for collecting glass tubes at the end of a production line. 3,670,904, 6-20-72, Cl. 214-1.00p.
Olivotto, Virgilio. Apparatus for grinding elongated rolling-up material, particularly metal wire. 3,633,318, 1-11-72, Cl. 51-90.
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Olkowski, William. Horseshoe catapulting apparatus having a remote control feature. 3,690,660, 9-12-72, Cl. 273-101.000.
Olland, Frederik Walraven, to Olland Industries- en Handelmaatschappij N.V. Filtering device for preparing drinks. 3,662,675, 5-16-72, Cl. 99-289.000.
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Ollearo, Giorgio, to Olivetti, Ing., C., & C., S.p.A. Tool holder for machine tools. 3,640,397, 2-8-72, Cl. 211-1.5.
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Olmsted, Bruce Chamberlin, Jr.: *See—*
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Olmsted, Lester E.; Puetz, Eckard J.; and Rodgers, Warren, to N L Industries, Inc. Preparation of finely divided calcium silicate. 3,660,021, 5-2-72, Cl. 23-110.
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Olney, Frederick Darwin, Jr., to Honeywell Information Systems Inc. Stitch control mechanisms and thread cutter. 3,701,329, 10-31-72, Cl. 112r252.000.

Olofsson, Erik Herbert: *See—*
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O'Loughlin, Bernard T.: *See—*
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O'Loughlin, Francis A., to Thomas & Betts Corporation. Electrical connector. 3,644,875, 2-22-72, Cl. 339-97.

O'Loughlin, Francis A., to Thomas & Betts Corporation. Wrapped wire connection. 3,649,743, 3-14-72, Cl. 174-84.

O'Loughlin, Francis A.; and Herb, Philip J., to Thomas & Betts Corporation. Insulating piercing electrical connector. 3,697,669, 10-10-72, Cl. 174-84.00c.

O'Loughlin, James J.: *See—*
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O'Loughlin, James P., to Raytheon Company. Power supply providing synchronized energization of a load. 3,675,115, 7-4-72, Cl. 323-6.000.

Olowinski, Edward J., to Lord Corporation. Elastomeric reflex joint. 3,706,465, 12-19-72, Cl. 287-85.00r.

Olschewski, Karl H.: *See—*
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Olsen, Alf J., to Teletype Corporation. Cartridge, case and web. 3,655,145, 4-11-72, Cl. 242-197.

Olsen, Benny; and Olsen, Zenny, to Allied Control Company, Inc. Rotary input/feedback mechanical servo valve. 3,695,295, 10-3-72, Cl. 137-625.690.

Olsen, Douglas A.; and Osteraas, A Jean, to Ashland Oil, Inc. Modification of surfaces with nitrenes. 3,666,536, 5-30-72, Cl. 117-106.00r.

Olsen, George P.; Towle, Philip H.; and Baldwin, Richard H., to Standard Oil Company. Purification of aromatic polycarboxylic acids by catalytic reduction using prehumidified hydrogen. 3,639,465, 2-1-72, Cl. 260-525.

Olsen, Gerald N.: *See—*
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Olsen, Larry C.; Seeman, Stephen E.; Griffin, Bobby I.; and Ambrose, Charles J., to McDonnell Douglas Corporation. Nuclear battery. 3,706,893, 12-19-72, Cl. 310-3.00b.

Olsen, Leif T., to Bruk, Boen. Process for the continuous production of laminated wood of the parquet type. 3,671,353, 6-20-72, Cl. 156-302.000.

Olsen, Leif Thorvald, to Bruk, Boen. Device for the continuous production of laminated wood of the parquet type. 3,697,361, 10-10-72, Cl. 156-558.000.

Olsen, Martin F. Emergency gangway for railroad cars. 3,666,045, 5-30-72, Cl. 182-20.000.

Olsen, Olaf L. Ladder mounted paint pail support. 3,661,351, 5-9-72, Cl. 248-210.

Olsen, Oscar: *See—*
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Olsen, Perry Charles; and Tang, Pak Chong, to RCA Corporation. Video blanking and sound muting circuit. 3,673,318, 6-27-72, Cl. 178-5.80r.

Olsen, Perry Charles; and Tang, Pak Chong, to RCA Corporation. Video blanking and sound muting circuit employing grounded tuner switches. 3,679,819, 7-25-72, Cl. 178-5.80r.

Olsen, Ralph A., to Ford Motor Company. Energy absorbing steering control system. 3,678,777, 7-25-72, Cl. 74-492.000.

Olsen, Robert A., to American Hospital Supply Corporation. Base for adjustable chairs. 3,698,673, 10-17-72, Cl. 248-421.000.

Olsen, Robert A., to American Hospital Supply Corporation. Adjustable headrest for dental chairs. 3,698,765, 10-17-72, Cl. 297-396.000.

Olsen, Robert W.; Rodgers, David P.; and Viehmann, George A.; deceased (LaPalme, Camille V.; and Viehmann, George A., Jr.; co-executors), to Construction Specialties, Inc. Automatic closing louver. 3,631,790, 1-4-71, Cl. 98-110.

Olsen, Roger F.: *See—*
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Olsen, Sydney, Alvin: *See—*
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Olsen, Thomas W., to Modern Decorating Company. Screen printing machine for decorating multi-speed articles. 3,654,856, 4-11-72, Cl. 101-40.

Olsen, Thomas W., to Modern Decorating Company. Screen printing machine for round and flat articles. 3,659,523, 5-2-72, Cl. 101-38.

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Olso, Mitsuo, to Fujitsu Limited. Discriminator circuit for recorded modulated binary data signals. 3,663,883, 5-16-72, Cl. 328-72.

Olson, Albert W., to Libbey-Owens-Ford Company. Glazing unit. 3,656,471, 4-18-72, Cl. 126-200.

Olson, Buford W., Sr.; Nelson, Eldrid W.; and Davidson, Albin A., to Olson, Chas., & Sons Incorporated. Convertible rail-highway vehicle. 3,653,332, 4-4-72, Cl. 105-215.

Olson, Carl R.: *See—*
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Hartlein, Robert C.; Kiles, James D.; Larson, Willard D.; and Olson, Carl R., 3,670,649.

Olson, Charles Langdon; and Dischert, Robert Adams, to RCA Corporation. Automatic registration of color television cameras. 3,692,918, 9-19-72, Cl. 178-5.40m.

Olson, Chas., & Sons Incorporated: *See—*
Olson, Buford W., Sr.; Nelson, Eldrid W.; and Davidson, Albin A., 3,653,332.

Olson, Clyde W., to Clyde Machines, Inc. Cargo container trailer transporter. 3,684,108, 8-15-72, Cl. 214-84.000.

Olson, Danford H. B,B'-Discetoxy diethyl selenide useful as a miticide. 3,632,776, 1-4-72, Cl. 424-311.

Olson, Danford H.; and Bailey, George M., to Marathon Oil Company. Process for the production of vinylically chlorinated olefins. 3,689,578, 9-5-72, Cl. 260-654.00r.

Olson, David A.: *See—*
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Olson, David A., to Stackpole Carbon Company. Screw actuated linear motion potentiometer. 3,676,825, 7-11-72, Cl. 338-181.000.

Olson, David T.: *See—*
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Olson, Donald O. Flow restrictor with flushing means. 3,693,657, 9-26-72, Cl. 137-608.000.

Olson, Earl J.: *See—*
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Olson, Edgar C.: *See—*
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Olson, Edwin N. Coil winding apparatus. 3,635,260, 1-18-72, Cl. 140-92.2.

Olson, Elmer B., 10% to Lee, Raymond, Organization, Inc., The. Cosmetic spray comb. 3,636,963, 1-25-72, Cl. 132-112.

Olson, Floyd C.: *See—*
Bard, John C.; and Olson, Floyd C., 3,679,434.

Olson, Floyd C.; and Podebradsky, Everett V., to Mayer, Oscar, & Co., Inc. Method of preparing a meat product having a texture similar to that of a primal cut and high polyunsaturated fat content. 3,649,300, 3-14-72, Cl. 99-107.

Olson, Frank Wesley, Jr.; and Roberts, Karl Hutchenson, to Colgate-Palmolive Company. Oil and fluorescent dye containing luster imparting liquid shampoo. 3,658,985, 4-25-72, Cl. 424-70.

Olson, Frank Wesley, Jr.; and Roberts, Karl Hutcheson, to Colgate-Palmolive Company. Shampoo. 3,697,452, 10-10-72, Cl. 252-545.000.

Olson, Franklyn C. W., to United States of America, Navy. Current and turbulence meter. 3,695,103, 10-3-72, Cl. 73-170.00a.

Olson, Gaylor G., to TRW Inc. Radiant energy beam scanning method and apparatus. 3,673,412, 6-27-72, Cl. 250-201.000.

Olson, Gene E.: *See—*
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Olson, George E.: *See—*
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Dissmeyer, Fred W.; and Olson, George E., 3,650,418.
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Olson, Gunnar E. Three-jaw machine vise. 3,633,900, 1-11-72, Cl. 269-156.

Olson, Harlan D., to Cascade Corporation. Vacuum control valve. 3,648,972, 3-14-72, Cl. 251-339.
Olson, Jack R., to United States of America, Navy. Electromagnetic flowmeter. 3,693,440, 9-26-72, Cl. 73-194.00e.
Olson, James F. Rotary samplers. 3,690,179, 9-12-72, Cl. 73-424.000.
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Olson, James R., to Eastman Kodak Company. Uniform polarity resin electrostatic toners. 3,647,696, 3-7-72, Cl. 252-62.1.
Olson, John E.; Bostad, Wayne W.; and Price, Norman L., to Hyster Company. Jet pipe fluid control. 3,670,626, 6-20-72, Cl. 91-3.000.
Olson, John Henry; and Vines, Raymond Francis, to International Nickel Company, Inc., The. Brazing alloy for elevated temperature service. 3,663,217, 5-16-72, Cl. 75-165.
Olson, John W.: *See—*
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Olson, Larry Alan, to RCA Corporation. Test system for electrical apparatus. 3,659,044, 4-25-72, Cl. 178-6.8.
Olson, Lars-Olov Roland, to Saab-Scania Aktiebolag. Attachment for fastening a luggage rack into the drip moulding of an automobile. 3,702,167, 11-7-72, Cl. 224-42.10e.
Olson, Lloyd J.: *See—*
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Olson, Mark W.; and Silva, Walter F., to Uniroyal, Inc. Mold for glove heater. 3,635,623, 1-18-72, Cl. 425-123.
Olson, Melvin M., to Minnesota Mining and Manufacturing Company. Composition of matter. 3,661,874, 5-9-72, Cl. 260-83.3.
Olson, Neil W. Pipe centering jig. 3,705,453, 12-12-72, Cl. 29-200.00p.
Olson, Peter B. Anti-theft apparatus for a motor vehicle. 3,670,837, 6-20-72, Cl. 180-114.000.
Olson, Ralph B.: *See—*
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Olson, Raymond E.; and Yone, Harold R., to Barber-Colman Company. Method and means for doffing a bobbin and forming a transfer tail. 3,696,602, 10-10-72, Cl. 57-53.000.
Olson, Richard C.: *See—*
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Olson, Richard L., to Dike-O-Seal, Incorporated. Method of making pressurizable elastomeric structures. 3,657,403, 4-18-72, Cl. 264-51.
Olson, Robert A., to Glatfelter, P. H., Company. Self-bondable printing paper. 3,664,912, 5-23-72, Cl. 161-161.
Olson, Robert E.; and Toman, Joseph R., to Packard Instrument Company Inc. Bone density measuring instrument. 3,639,764, 2-1-72, Cl. 250-83.3.
Olson, Robert K., to Universal Oil Products Company. Dewaxed lubricating oil production. 3,654,133, 4-4-72, Cl. 208-59.
Olson, Robert S.: *See—*
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Olson, Robert S.; and Surls, Joseph P., Jr., to Dow Chemical Company, The. Process for recovery of beryllium. 3,669,649, 6-13-72, Cl. 75-101.000.
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Olson, Roger A., to Buckbee-Mears Company. Method of making mirror-like finishes on metal masters. 3,647,642, 3-7-72, Cl. 204-11.
Olson, Roger A.; and Osero, Norman M., to Buckbee-Mears Company. Lamp circuit. 3,706,983, 12-19-72, Cl. 340-251.000.
Olson, Ronald A., to Tektronix, Inc. Integrating circuit. 3,697,778, 10-10-72, Cl. 307-229.000.
Olson, Stanley W.: *See—*
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Olson, Theodore A.; and Scanlon, John J., to Remington Arms Company, Inc. Molding plastic coated nitrocellulose. 3,679,781, 7-25-72, Cl. 264-3.00r.
Olson, Thorvald N. Piston stroke control mechanism. 3,633,429, 1-11-72, Cl. 74-44.
Olson, Vernon. Quick disconnect clutch. 3,675,749, 7-11-72, Cl. 192-56.00r.
Olson, Virginia A.: *See—*
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Olson, Virginia A.; and Townsend, Bruce A., to Kimberly-Clark Corporation. Absorbent tampon. 3,683,912, 8-15-72, Cl. 128-285.000.
Olson, Wallace A. Methods for accelerating the curing of concrete. 3,649,725, 3-14-72, Cl. 264-40.
Olson, Wallace A. Apparatus for the curing of concrete. 3,659,077, 4-25-72, Cl. 219-213.000.
Olson, Wallace A. Apparatus for assisting in the curing of concrete and heating. 3,676,641, 7-11-72, Cl. 219-200.000.
Olson, Walter C. Mobile vibratory cable plow. 3,702,062, 11-7-72, Cl. 61-72.600.
Olson, Walter L.: *See—*
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Olsson, Bertil Lennart. Vent plug for a filling opening of a cell of an electric storage battery. 3,664,879, 5-23-72, Cl. 136-182.
Olsson, Billy E., to Berg Electronics, Inc. Circuit board socket. 3,681,744, 8-1-72, Cl. 339-256.00r.
Olsson, Billy E., to Berg Electronics, Inc. Flat conductor cable connector. 3,696,319, 10-3-72, Cl. 339-17.00f.
Olsson, Bruno. Denture or dental plate. 3,644,995, 2-29-72, Cl. 32-2.
Olsson, Erik, AG: *See—*
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Olsson, Erik Allan. Method of continuously casting steel. 3,651,856, 3-28-72, Cl. 164-82.
Olsson, Erik G.: *See—*
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Olsson, Gunnar. Cement concrete structure with anchoring means for preventing the occurence of large contraction cracks and a method for forming cement concrete structure. 3,680,450, 8-1-72, Cl. 94-22.000.
Olsson, Hans. Combination test box and battery charger. 3,663,939, 5-16-72, Cl. 320-48.000.
Olsson, Karl Gustav: *See—*
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Olsson, Kjell Olow Ingemar. Device for generating microwave oscillations. 3,702,977, 11-14-72, Cl. 331-107.00r.
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Olsson, Per O. I., to Nitro Nobel AB. Electric blasting cap having increased safety against unintentional initiation. 3,640,223, 2-8-72, Cl. 102-28.
Olsson, Sture A. B. Label printing and dispensing tool. 3,656,430, 4-18-72, Cl. 101-288.
Olsson, Sven O., to Essar Corporation. EDM machine head and hydraulic pressure apparatus. 3,662,142, 5-9-72, Cl. 219-69.
Olsson, Sven O. Container spout. 3,695,488, 10-3-72, Cl. 222-570.000.
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Olstowski, Franciszek, to Dow Chemical Company, The. Process for producing anisotropic graphite-metal composites. 3,666,455, 5-30-72, Cl. 75-201.
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Olszewski, Walter J., to Union Carbide Corporation. Gas liquefaction process and apparatus. 3,677,019, 7-18-72, Cl. 62-9.000.
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Olt, Robert L., to Hercules Incorporated. Method of producing fine particle ammonium perchlorate. 3,685,163, 8-22-72, Cl. 34-5.000.
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O'Neill, Charles T.; Krigbaum, Ronald S.; and Nussbaum, Ralph W., to Allied Chemical Corporation. Low shrinkage 1,2-butadiene polymer molding composition. 3,636,141, 1-18-72, Cl. 260-880.
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Oravec, August J. Automatically self-cleaning self-aerating tropical fish aquarium. 3,688,907, 9-5-72, Cl. 210-169.000.
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O'Regan, Richard, to Bell Telephone Laboratories, Incorporated. Multipass interferometer. 3,698,788, 10-17-72, Cl. 350-3.500.
Orehoski, Michael A.: *See—*
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Organ, Terrence John; Alderman, Leslie; Melley, Arthur; and Pratt-Johnson, William Henry, to Cadbury Brothers Limited. Method of, and means for manufacturing chocolate. 3,634,106, 1-11-72, Cl. 99-236.
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Orita, Michio; Yahagi, Masakichi; Enomoto, Chohji; Obitu, Takeo; and Tohyama, Takafumi, to Nisso Kako Co., Ltd. Fluoran derivatives and preparation thereof. 3,649,649, 3-14-72, Cl. 260-343.3.
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Orlando, Charles M., to General Electric Company. 4,4'-Bis(2-phenyl-5-pyrimidinol). 3,658,817, 4-25-72, Cl. 260-256.4.
Orlando, Charles M.; Wirth, Joseph G.; and Heath, Darrell R., to General Electric Company. 2,5-Bis(2-benzazolyl)hydroquinones and their derivatives. 3,673,202, 6-27-72, Cl. 260-304.000.
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Orlova, Frida Abramovna; Seleznev, Georgy Vasilievich; and Bonjuk, Petr Veniaminovich. Method for protection of evaporator heating elements from corrosion. 3,664,885, 5-23-72, Cl. 148-6.14.
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Orlowski, Gerald J., to Korlow Corporation. Onion ring separator. 3,682,214, 8-8-72, Cl. 146-1.00r.
Ormand, Frederick T.; and Auger, Huey V., to Airco, Inc. Hyperbaric breathing mixture. 3,676,563, 7-11-72, Cl. 424-366.000.
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Ormond, Alfred Newman. Method and apparatus for analog to digital conversion. 3,668,690, 6-6-72, Cl. 340-347.0nt.
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Ormskirk, Leonard William Eyles, to Lucas, Joseph, (Industries) Limited. Control arrangement for hydraulic transmission system. 3,690,098, 9-12-72, Cl. 60-53.00r.
Orndorff, Brickley S., to Penn-Aquatic Industries, Inc. Swimming pool and method of constructing same. 3,631,545, 1-4-72, Cl. 4-172.19.
Orndorff, Roy L., Jr., to Goodrich, B. F., Company, The. Elastomeric bearing. 3,637,273, 1-25-72, Cl. 308-238.
Orner, Harry. Preloaded ball-bearing screw and nut mechanism. 3,638,507, 2-1-72, Cl. 74-424.8.
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Ornstein, Leonard, to Mount Sinai Research Foundation, Inc. Data processing. 3,633,171, 1-4-72, Cl. 340-172.5.
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Oroslan, Andrew; Sello, Stephen B.; and Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Thioalkanoate chemical intermediates. 3,686,258, 8-22-72, Cl. 260-455.00r.
Orosz, Alex, Jr.; and St. Clair, Lawrence B., to Westinghouse Electric Corporation. Fused circuit breaker. 3,688,237, 8-29-72, Cl. 337-7.000.
Orosz, Joseph. Revolving stroke drive. 3,704,632, 12-5-72, Cl. 74-127.000.
Oroszlan, Andrew; and Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Unsymmetrical aziridinyl compounds. 3,703,509, 11-21-72, Cl. 260-239.00e.
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Orovan, Alice. Adjustable length garment. 3,665,516, 5-30-72, Cl. 2-74.
Orowan, Egon, to Massachusetts Institute of Technology. Adhesive tape. 3,655,424, 4-11-72, Cl. 117-68.5.
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Orr, Bengt Erik, to Aktiebologet Electrolux. Jack. 3,685,797, 8-22-72, Cl. 254-88.00b.
Orr, Donald J. Method of cleaning and sanitizing food processing devices. 3,657,011, 4-18-72, Cl. 134-17.
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Orr, LaVern G.; and Yutani, Nobuo, to Boeing Company, The. Electromagnetic high energy forming. 3,704,506, 12-5-72, Cl. 29-243.540.
Orr, Robert F.; and Wyers, Joseph H., to Fluoroware of California, Inc. Developing apparatus. 3,641,906, 2-15-72, Cl. 95-89.
Orr, William H., to Bell Telephone Laboratories, Incorporated. Thin film distributed RC structure. 3,665,346, 5-23-72, Cl. 333-70.
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Ort, Eldon L.; Smith, John K.; and Kacergis, John A., to United States of America, Navy. Wide band phase lock spectral purity measuring apparatus. 3,649,909, 3-14-72, Cl. 324-77.
Ort, George M., to Dick, A. B., Company. Ferrocyanide-chelate conversion solution for electrophotographic offset masters. 3,672,885, 6-27-72, Cl. 96-1.000.
Ort, Jay E., to ERA Incorporated. Unbalanced culture method of algae production. 3,645,040, 2-29-72, Cl. 47-1.4.
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Ort, Wolfgang; and Brauning, Gerhard, to Eastman Kodak Company. Focal plane shutter and mechanism for operating. 3,646,603, 2-29-72, Cl. 95-55.
Ort, Wolfgang, to Eastman Kodak Company. Automatic shutter-speed control. 3,670,635, 6-20-72, Cl. 95-10.00c.
Ort, Wolfgang, to Eastman Kodak Company. Mechanism for synchronizing operation of a camera shutter and a mechanically actuated flash device. 3,677,158, 7-18-72, Cl. 95-11.500.
Ort, Wolfgang, to Eastman Kodak Company. Film transport indicator in a camera. 3,688,668, 9-5-72, Cl. 95-31.0fm.
Ortega, Charlotte C. Birth announcement. 3,696,540, 10-10-72, Cl. 40-126.
Ortega, Robert; and Sable, Chester A., to Pools, Anthony, Inc. Swimming pool filter apparatus. 3,653,513, 4-4-72, Cl. 210-169.
Ortel, Gerhard, to Kuper, Heinrich. Machine for assembling lamina workpieces. 3,660,206, 5-2-72, Cl. 156-545.
Ortel, Gerhard, to Kuper, Heinrich. Apparatus for positioning sheets. 3,686,057, 8-22-72, Cl. 156-548.000.
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Reiss, Alice M.; and Chachowski, Rosemary K., 3,658,982.
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Pacini, Bruno Marcio; Price, Desmond Alfred; and Parikh, Anil Chandrakant, to Imperial Chemical Industries Limited. Polyamide filaments. 3,675,408, 7-11-72, Cl. 57-140.0by.
Pacini, Pier Luigi: *See—*
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Pacini, Pier Luigi; and Kleiner, Eduard Karl, to Ciba-Geigy Corporation. Polymers of 5-(3-perfluoroalkyl-1,2,4-oxadiazolyl) olefins. 3,645,985, 2-29-72, Cl. 260-78.4.
Paciorek, Walter J.; and Norton, Randolph, to Minnesota Mining and Manufacturing Company. Controlled fragrance release device. 3,685,734, 8-22-72, Cl. 239-56.000.
Pack, Howard S., to Teletype Corporation. Magnetically operable momentary switch assembly. 3,656,181, 4-11-72, Cl. 335-205.
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Packer, Mervyn B.; and Judge, Gordon W., to Automotive Products Company Limited. Anti-skid systems and apparatus for vehicles. 3,682,515, 8-8-72, Cl. 303-21.0be.
Packer, Mervyn Brian, to Automotive Products Company Limited. Means for preventing skidding of vehicle wheels. 3,632,177, 1-4-72, Cl. 303-21.
Packer, Mervyn Brian; and Judge, Gordon W., to Automotive Products Company Limited. Anti-skid systems and apparatus for vehicles. 3,635,530, 1-18-72, Cl. 303-21.
Packert, Anton; and Dietrich, Werner. Hinged container. 3,695,419, 10-3-72, Cl. 206-45.340.
Packin, Milton; and Seid, Bernard, to Radiation Machinery Corporation. Atomic irradiator having means for rotating samples for uniform exposure. 3,683,181, 8-8-72, Cl. 250-52.000.
Packman, Elias W., to Arcadia Products Corporation. Method of stretching leather shoes. 3,679,583, 7-25-72, Cl. 252-8.570.
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Padalino, Joseph J.; and Tuszynski, Alfons A., to Research Corporation. Pulse-width frequency modulation device. 3,668,560, 6-6-72, Cl. 332-9.
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Paddison, Eric; Wilson, Christopher George; and Gray, Frederick Martin, to English Electric Company Limited, The. Selector circuit for determining faults in polyphase transmission systems. 3,699,431, 107-72, Cl. 324-51.000.
Paddock, Charles F., to Uniroyal, Inc. Bonding EPDM to butadiene rubbers. 3,653,423, 4-4-72, Cl. 152-330.
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Padgett, Clarence W.; and Polkinghorn, Robert W., to North American Rockwell Corporation. Low voltage level output driver circuit. 3,660,684, 5-2-72, Cl. 307-251.
Padgett, George L., to General Electric Company. Liquid cooled seal lube coupling. 3,705,502, 12-12-72, Cl. 64-32.00r.
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Padmanathan, Thurairajah, to American Cyanamid Company. 1,3,2-Oxazaborinides and method for preparing the same. 3,669,985, 6-13-72, Cl. 260-310.00a.
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Padovani, Henry R.; and Wright, John G., to Textron, Inc., mesne. Heel stripping means. 3,653,088, 4-4-72, Cl. 12-50.5.
Padovani, Pietro, to I.S.A.P. SpA. Cupped trays made from a thin sheet of plastics material for round or pear-shaped fruits or horticultural products. 3,674,168, 7-4-72, Cl. 217-26.500.
Padovani, Pietro. Pressure operated fastening means for containers. 3,674,295, 7-4-72, Cl. 292-76.000.
Padowicz, Henry N., to Bell Telephone Laboratories, Incorporated. Method of making a communications cable. 3,638,306, 2-1-72, Cl. 29-624.
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Paelian, Owen; Rister, Donald R.; and Kellar, Richard L., to Toroid Corporation. Load cell. 3,706,349, 12-19-72, Cl. 177-211.000.
Paepke, Horst, to Warner & Swasey Company, The. Horizontal selector jacks and their actuation. 3,667,254, 6-6-72, Cl. 66-50.00r.
Paffen, Pieter Jozef Marie: *See—*
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Pagdin, William Gordon; Smith, Walter I.; Smith, Wayne A.; and Le Tendre, Eugene F., to Schlitz, Jos., Brewing Company. Conveyor. 3,669,244, 6-13-72, Cl. 198-137.000.
Page, Billy A. Crymotherapy apparatus for limbs. 3,705,587, 12-12-72, Cl. 128-402.000.
Page, Derrick J.: *See—*
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Page, Derrick J.; and Raygor, Paul O., to Westinghouse Electric Corporation. Mask changing mechanism for use in the evaporation of thin film devices. 3,669,060, 6-13-72, Cl. 118-7.000.
Page, Derrick J.; and Driver, Michael C., to Westinghouse Electric Corporation. Method of producing thin film transistors. 3,669,661, 6-13-72, Cl. 96-36.200.
Page, Donald E., to Sterling Drug Inc. N,N'-Disubstituted cyclopentane-1,2,3,4-tetracarboximides. 3,655,691, 4-11-72, Cl. 260-326.3.
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Page, Ian Bruce; and Thompson, Alan, to AMP Incorporated, mesne. Lamp holder. 3,654,593, 4-4-72, Cl. 339-188.
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Page, John S., Jr. Self-closing, sub-surface well safety valve. 3,662,824, 5-16-72, Cl. 166-72.000.
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Page, Josiah B., to International Business Machines Corporation. Method for balancing the utilization of input/output devices. 3,702,006, 10-31-72, Cl. 444-1.000.
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Page, Louis J. Ophthalmic mounting for tensionally securing lenses. 3,702,217, 11-7-72, Cl. 351-106.000.
Page, Patrick E. Parasail, glider type aerial device. 3,700,191, 10-24-72, Cl. 244-16.000.
Page, Ray A., to SCM Corporation. Integrated circuit inserting machine. 3,657,788, 4-25-72, Cl. 29-203.00r.
Page, Richard W. Dental instrument operating system. 3,673,709, 7-4-72, Cl. 32-22.000.
Page, Robert M., to United States of America, Navy. Long range obstacle locator system. 3,681,746, 8-1-72, Cl. 340-3.00r.
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Page, Walter; Schevey, William R.; and Vander Mey, John E., to Allied Chemical Corporation. Zinc electroplating process and acidic zinc fluoborate electrolyte therefor. 3,655,533, 4-11-72, Cl. 204-55.
Page, Wilbur M.; and Coupland, Ralph, to Clayton Dewandre Company Limited. Vehicle braking systems. 3,666,324, 5-30-72, Cl. 303-9.
Pagel, Armin B., to Newell Mfg. Co. Apparatus for dispensing sheet material. 3,667,825, 6-6-72, Cl. 312-39.
Pagel, Armin B., to Eastman Kodak Company. Photographic apparatus. 3,675,565, 7-11-72, Cl. 95-11.00l.
Pagel, Dilip N.: *See—*
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Paget, Fredrick W., to GTE Sylvania Incorporated. Electronic flash lamp power supply. 3,644,818, 2-22-72, Cl. 321-18.

Paget, Fredrick W., to Sylvania Electric Products, Inc. Control circuit for starting, sustaining and and operating arc lamps. 3,699,385, 10-17-72, Cl. 315-239.000.
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Paglia, Richard, to Polaroid Corporation. Apparatus for interfacing photographic camera and film cartridge. 3,705,537, 12-12-72, Cl. 95-11.00r.
Pagnotta, Gasper; and Kiesler, Allan J., to General Electric Company. Process for joining wires to sheets of refractory materials. 3,639,722, 2-1-72, Cl. 219-127.
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Pahlitzsch, Bruno. Method of and apparatus for manufacturing articles from blanks of sheet material. 3,672,667, 6-27-72, Cl. 271-74.000.
Pahlitzsch, Bruno. Device for extracting blanks from a stack. 3,682,471, 8-8-72, Cl. 271-29.000.
Pahlow, Lothar, to Wilhelmsburger Maschinenfabrik, Firma. Adjustable supporting structure for power tools or the like. 3,700,195, 10-24-72, Cl. 248-16.000.
Pahnke, Hans Jochim, to Maschinenfabrik Sack G.m.b.H. Forging machine. 3,657,916, 4-25-72, Cl. 72-399.
Pai, Venkatrao Krishnaraya; and Hyman, Daniel, to American Cyanamid Company. Separation of organic acid products and water from catalysts after synthesis by reduced pressure distillation. 3,663,613, 5-16-72, Cl. 260-533.
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Paige, Dennis D.; and Coleman, Lewis E., to Automated Lawn Builders of the Midwest, Inc. Lawn and turf maintenance unit. 3,685,468, 8-22-72, Cl. 111-11.000.
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Paige, Edward George Sydney, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in Her Britannic Majesty's Government of the. Acoustic surface wave devices. 3,678,305, 7-18-72, Cl. 310-8.100.
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Paige, Richard E. Talking book. 3,641,684, 2-15-72, Cl. 35-8.
Paige, Walter Griffin, to Burroughs Corporation. Low cost calculator providing serial printing and a bi-quinary system for amount entry. 3,687,361, 8-29-72, Cl. 235-60.00p.
Paige, William P.; and Nagle, Floyd B., to Dow Chemical Company, The. Flame retardant polypropylene and polyurethane. 3,666,692, 5-30-72, Cl. 260-2.5.
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Odone, Giovanni; Kunz, Heinrich; and Buch, Willy, 3,652,160.
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Pajulaid, Manivald Maximovich; and Tooming, Khugo Gustavovich. Apparatus for sewing together net sheets. 3,664,694, 5-23-72, Cl. 289-18.
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Pakutka, Willard M.; Cerulli, Nicholas F.; and Scanlon, Gerald T., to Westinghouse Electric Corporation. Refractory metal brazing with niobium pentoxide flux. 3,636,297, 1-18-72, Cl. 219-85.
Pal, Ajoy Kumar. Logic track circuit. 3,691,370, 9-12-72, Cl. 246-125.000.
Pala, Gianfranco: *See—*
Casadio, Silvano; and Pala, Gianfranco, 3,703,528.
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Pala, Gianfranco, to Instituto de Angeli S.p.A. 3-Halogenated 4,4'-disulfoxy-diphenyl-(2-pyridyl)-methane. 3,686,189, 8-22-72, Cl. 260-294.80r.
Palac, Kazimir, to Motorola, Inc. Method of depositing vitreous material on a faceplate panel. 3,677,791, 7-18-72, Cl. 117-33.5cm.
Palac, Kazimir, to Motorola, Inc. Edge-bonded bi-metallic strip extending from metal plate on shadow mask to stud via spring of substantially smaller cross-sectional area. 3,700,948, 10-24-72, Cl. 313-85.00s.
Palacio, Luis M.: *See—*
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Palagonia, Joseph R. Combination pick and shovel. 3,638,986, 2-1-72, Cl. 294-49.
Palan, Sherman E. Pressurized dispensing package. 3,687,174, 8-29-72, Cl. 141-20.000.
Palat, William. Apparatus and method for replacing a defective gate valve. 3,689,979, 9-12-72, Cl. 29-401.000.
Palau, Joseph; and de Germond, Jacques, to Staubli Ltd. Double-lift dobby. 3,667,507, 6-6-72, Cl. 139-71.
Palau, Joseph, to Staubli Ltd. Improvements in or relating to draw hooks of a dobby. 3,680,601, 8-1-72, Cl. 139-68.000.
Palauro, Dieter K.: *See—*
Coyne, Merton W.; and Palauro, Dieter K., 3,640,351.
Palauro, Dieter K.; and Mayer, James R., to Gardner-Denver Company. Drill rod retrieving tool. 3,697,113, 10-10-72, Cl. 294-86.240.
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Palazzetti, Mario, to Fiat Societa per Azioni. Electrical inductive/capacitive component. 3,660,790, 5-2-72, Cl. 336-69.
Palazzetti, Mario; and Cavallarin, Bruno. Magnetic ignition distributor. 3,683,880, 8-15-72, Cl. 123-146.50a.
Palazzetti, Mario; and Cavaliarin, Bruno, to Fiat Societa per Azioni. Electronic timing system for internal combustion engine. 3,705,573, 12-12-72, Cl. 123-146.50a.
Palazzola, Anthony: *See—*
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Palazzolo, Salvatore E.: *See—*
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Palazzolo, Salvatore E.; and McCaskey, Harold O., to Westinghouse Electric Corporation. Modified phenolic resin system and laminates made therefrom. 3,707,296, 12-26-72, Cl. 280-11.131.
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Palencher, Jacques, to Labocey Industrie. Apparatus for making molded objects. 3,642,409, 2-15-72, Cl. 425-305.
Palencher, Jacques, to Lebocey Industries. Shaping press, specifically for articles made of plastic. 3,679,803, 7-25-72, Cl. 425-289.000.
Palencher, Jacques; and Penard, Michel, to Societe dite: Lebacey Industrie. Moving frame measuring device. 3,705,351, 12-5-72, Cl. 324-151.00r.
Palenske, Carlton L., to Kimberly-Clark Corporation. Fitted bedsheet. 3,638,252, 2-1-72, Cl. 5-334.
Palenske, Carlton L.; and Marks, Lawrence E., to Kimberly-Clark Corporation. Double four corner contoured bedsheet. 3,681,795, 8-8-72, Cl. 5-334.00c.
Paleologo, Teo; Vargiu, Silvio; and Pezzoli, Silvestro, to Societa Italiana Resine S.p.A. Phenolic resin compositions and process. 3,632,537, 1-4-72, Cl. 260-19.
Paleologo, Teo; and Ackermann, Jacob, to Societa Italiana Resine S.p.A. Process for preparing paraformaldehyde. 3,632,655, 1-4-72, Cl. 260-615.5.
Paleologo, Teo; and Vargiu, Silvio, to Societa Italiana Resine S.p.A. Process for preparing hardened polyester resins using mixtures of organic metal derivatives of vanadium and zirconium as accelerators. 3,639,504, 2-1-72, Cl. 260-863.
Paleologo, Teo; Reni, Cesare; and Lugo, Luigi, to Societa' Italiana Resine S.p.A. Preparation of unsaturated aliphatic nitriles. 3,644,472, 2-22-72, Cl. 260-465.3.
Paleos, Joannis, to Rohm & Haas Company. Decolorization of Kraft wood pulp bleach effluents. 3,652,407, 3-28-72, Cl. 210-27.
Palermiti, Frank M.: *See—*
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Teuscher, Leon A.; Trubisky, Michael P.; Palermiti, Frank M.; and Levine, Charles J., 3,697,265.
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Palermiti, Frank M.; Royka, Stephen F.; Sullivan, William A., Jr.; and Emerald, Robert L. Imaging system. 3,635,704, 1-18-72, Cl. 96-1.
Palermiti, Frank M.; and Chatterji, Arun K., to Xerox Corporation. Imaging process employing novel solid developer material. 3,655,374, 4-11-72, Cl. 96-1.4.
Palermo, Anthony J.; and Husick, Charles B., to Picker Corporation. Adjustable collimator. 3,668,402, 6-6-72, Cl. 250-105.000.
Palethorpe, George. Insoluble organotin salt stabilizers for acrylonitrile polymers. 3,642,628, 2-15-72, Cl. 260-45.75.
Paletto, Raimondo; and Cossuta, Giuseppe, to Ates Componenti Elettronici S.p.A. Module for integrated circuits and method of making same. 3,689,683, 9-5-72, Cl. 174-52.0pe.
Palfey, Albert J.: *See—*
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Palfey, Albert J., to Dow Chemical Company, The. Goods supporting pallet. 3,707,127, 12-26-72, Cl. 108-53.000.
Palfi, Leslie. Sliding parallel rule. 3,635,396, 1-18-72, Cl. 235-70.
Palfi, Thomas L.: *See—*
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Palfreyman, Donald H., to Fabreeka Products Company. Method of bonding material having a low coefficient of friction to a substrate. 3,663,333, 5-16-72, Cl. 156-256.000.
Palfreyman, Jack; Middleton, Henry Edward; and Baker, Alan Anthony, to Rolls-Royce Limited. Epicyclic weaving of fibre discs. 3,632,460, 1-4-72, Cl. 156-175.
Palfreyman, Jack; and Middleton, Henry Edward, to Rolls-Royce Limited. Fluid flow machine. 3,640,640, 2-8-72, Cl. 416-2.
Palfreyman, Jack; and Middleton, Henry Edward, to Rolls-Royce Limited. Apparatus for producing a fibre reinforced composite material. 3,645,829, 2-29-72, Cl. 156-441.
Palfreyman, Jack; and Middleton, Henry Edward, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the. Method of making a bladed rotor. 3,675,294, 7-11-72, Cl. 29-156.80r.
Palfreyman, Raymond D., to Bendix Corporation, The. Control wheel force sensor device. 3,653,612, 4-4-72, Cl. 244-83.
Palitex Project Company GmbH: *See—*
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Paliyenko, Paul; and Beier, Werner E., to Fiber Industries, Inc. Spinnerette for extruding T-shaped filaments. 3,640,670, 2-8-72, Cl. 18-8.
Paljug, Joseph W.; and Brody, Samuel S., to American Standard Inc. Log-linear electrometer. 3,652,934, 3-28-72, Cl. 324-115.
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Riely, Phyllis; and Skyles, Robert (said Riely assor. to), 3,631,654.
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Pall, David B.; and Silverwater, Bernard F., to Pall Corporation. Inertia filter. 3,696,933, 10-10-72, Cl. 210-444.000.
Pallat, Ludwig R.: *See—*
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Pallmann, Wilhelm. Comminuting particles. 3,684,198, 8-15-72, Cl. 241-73.000.
Pallos, Laszlo: *See—*
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Pallos, Perenc M.: *See—*
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Palluel, Auguste Louis Luciene, to Imperial Chemical Industries, Limited. Coating compositions. 3,673,137, 6-27-72, Cl. 260-19.000.
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Palm, Bert E.; and Germano, Victor V., to Diamond Shamrock Corporation. Method of preparing concrete reinforcing elements. 3,682,718, 8-8-72, Cl. 148-6.200.
Palm, Christof: *See—*
Decker, Martin; Stechl, Hanns-Helge; Palm, Christof; and Buerger, Gert, 3,637,797.
Pommer, Horst; Mueller, Herbert; Mangold, Dietrich; and Palm, Christof, 3,637,817.
Palm, Clifford W.; and Gibson, William R., to Celanese Corporation. Novelty yarn. 3,640,064, 2-8-72, Cl. 57-144.
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Palm, Gordon F. Water systems for phosphate plants. 3,699,212, 10-17-72, Cl. 423-307.000.
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Palm, Richard R.: *See—*
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Palm, William E., Jr., to Compo Industries, Inc. Shoe stiffener means and method. 3,676,250, 7-11-72, Cl. 156-249.000.
Palma, James R. Guide for growing blood vessels or the like. 3,648,295, 3-14-72, Cl. 3-1.
Palma, James R. Fluid separator. 3,706,383, 12-19-72, Cl. 210-374.000.
Palma, Michael A.; and Minarick, Joseph W., to Curtiss-Wright Corporation. Torque overload sensing and indicating device for torque limiting brake mechanism. 3,701,401, 10-31-72, Cl. 188-134.000.
Palmaer, Karl V. Link configuration for drive chain. 3,641,831, 2-15-72, Cl. 74-250.
Palmai, Robert, to Sheller-Globe Corporation. Oil filter. 3,669,144, 6-13-72, Cl. 137-525.

Palmason, Einar H.; and Stevens, Harry R., to Parkson Corporation. Automatic broiling apparatus. 3,646,879, 3-7-72, Cl. 99-339.

Palmberg, Paul W. Double pass coaxial cylinder analyzer with retarding spherical grids. 3,699,331, 10-17-72, Cl. 250-49.5ae.

Palme, Karl; and Watts, Raymond L., to Wehr Corporation. Brake actuating mechanism for rapid take up of running clearance and gradual application of brake setting force. 3,682,279, 8-8-72, Cl. 188-171.000.

Palme, Rudolf, to Schwarckopf Development Corporation. Platinum-containing X-ray target. 3,660,053, 5-2-72, Cl. 29-195.

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Palmenberg, Edward C., to Chromalloy American Corporation. Means for measuring bow in a turbine blade. 3,639,994, 2-8-72, Cl. 33-174.

Palmenberg, Edward C., to Chromalloy American Corporation. Means for measuring twist in a turbine vane. 3,653,128, 4-4-72, Cl. 33-174.

Palmenberg, Edward C., to Chromalloy American Corporation. Contour-abrasion means and method. 3,685,219, 8-22-72, Cl. 51-328.000.

Palmer, Alan B.: *See—*
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Palmer, Alan B., to Du Pont de Nemours, E. I., and Company. Method of securing dense, metal-bonded refractory nitride bodies to steel and product. 3,667,099, 6-6-72, Cl. 29-191.000.

Palmer, Ansell W.; and Earl, William C., to Oktronics, Inc., mesne. Magnetic recording device employing novel head mounting mechanism. 3,665,119, 5-23-72, Cl. 179-100.2.

Palmer, Brian Michael: *See—*
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Palmer, Charles B.: *See—*
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Palmer, David R.: *See—*
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Palmer, Donald M.; Cotton, Charles C.; and Hodges, Willmer F., to United States of America, Navy. Cable fairing system. 3,696,599, 10-10-72, Cl. 57-1.0un.

Palmer, Douglas B., to Western Electric Company, Incorporated. Bandwidth and center frequency testing using predetermined a amplitude pots. 3,699,434, 10-17-72, Cl. 324-57.00r.

Palmer Filter Equipment Company: *See—*
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Palmer, Franklin E. Calender sheeting thickness correction control system. 3,635,627, 1-18-72, Cl. 425-141.

Palmer, Fred Irwin; and Fogleboch, John Richard, to RCA Corporation. Wide dynamic range product detector. 3,705,355, 12-5-72, Cl. 325-450.000.

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Palmer, Hugh C., to Kal Kan Foods, Inc. Method of producing a simulated meat. 3,645,747, 2-29-72, Cl. 99-17.

Palmer, James. Box beam wall construction. 3,641,724, 2-15-72, Cl. 52-615.

Palmer, Jay W., to Morton-Norwich Products, Inc., mesne. Use of sodium chloride in providing aqueous solutions of copper salts from copper ore. 3,647,368, 3-7-72, Cl. 23-97.

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Palmer, Leonard; and Flusfeder, Joseph. Device for holding a stamper on the die of a record press. 3,632,280, 1-4-72, Cl. 425-450.

Palmer, Lewis H., III; and Kimball, Stephen F., to Sylvania Electric Products, Inc. Tungsten halogen lamp having improved filament support. 3,634,722, 1-11-72, Cl. 313-279.

Palmer, Lucille Elma, to American Cyanamid Company. Film-forming composition. 3,634,368, 1-11-72, Cl. 260-80.72.

Palmer, Lucille Elma, to American Cyanamid Company. Hair spray containing a tetrapolymer comprising n-t-butyl acrylamide or-N-isopropyl acrylamide. 3,692,893, 9-19-72, Cl. 424-47.000.

Palmer, Myron D., to International Business Machines Corporation. Process for etching silicon nitride. 3,706,612, 12-19-72, Cl. 156-17.000.

Palmer, Neil R.; Karge, Joseph R.; and Erickson, Kenneth W., to Square D Company. Actuating mechanism for operating handle of electrical switching device. 3,688,228, 8-29-72, Cl. 335-68.000.

Palmer, Nigel I., to Leesona Corporation. Secondary metal/air cell. 3,650,837, 3-21-72, Cl. 136-86.

Palmer, Nigel I., to Leesona Corporation. Electrodes comprising fluorinated phosphonitrile polymer and fuel cell in combination therewith. 3,660,165, 5-2-72, Cl. 136-86.

Palmer, Oakley Butler; and Spencer, Paul E. Torque power wrench marking device. 3,693,483, 9-26-72, Cl. 81-524.000.

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Palmer, Raymond L., to Coventry Gauge & Tool Company Limited. Grinding machines. 3,631,633, 1-4-72, Cl. 51-95.

Palmer, Reed A.; and Fox, Raymond J., to Robertshaw Controls Company. Pneumatic control system and method. 3,649,154, 3-14-72, Cl. 431-6.

Palmer, Reed A., to Robertshaw Controls Company. Pneumatic harness plug assembly or the like. 3,687,009, 8-29-72, Cl. 91-37.000.

Palmer, Robert A., to Korblock Corporation. Encased steel building block. 3,685,244, 8-22-72, Cl. 52-592.000.

Palmer, Robert D. Posture improving device. 3,670,320, 6-13-72, Cl. 340-279.000.

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Palmer, Roy M.; and Schoenhals, Robert J., to Bendix Corporation, The. Energy absorbing device. 3,653,613, 4-4-72, Cl. 244-103.

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Palmer, Stanley D. Game apparatus board. 3,697,077, 10-10-72, Cl. 273-135.00b.

Palmer, Walter E. Moisture indicator for plants. 3,702,755, 11-14-72, Cl. 23-253.0tp.

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Palopoli, Frank P.; Blohm, Thomas R.; and Kariya, Takashi, to Richardson-Merrell Inc. Aminoalkoxy-triphenyl ethylenes and the salts thereof. 3,647,863, 3-7-72, Cl. 260-501.18.
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Paltauf, Fritz; Margot, Alfred; and Brenneisen, Paul, to Ciba-Geigy Corporation. Isothiocyano-diphenyl ethers, sulfides, sulfoxides and sulfones. 3,697,555, 10-10-72, Cl. 260-397.600.
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Palumbo, Donald R.; Platt, John V.; Noeggerath, Leon; Johnston, Laurence, Jr.; and Aleckna, Robert G., to Rohr Corporation. Method and apparatus for positioning parts. 3,657,794, 4-25-72, Cl. 29-429.
Palumbo, Henry Joseph, to Johns-Manville Corporation. Fluoroelastomer bonded-sheet packing and method of manufacture. 3,634,309, 1-11-72, Cl. 260-41.
Palumbo, Henry Joseph, to Johns-Manville Corporation. Method of making shaped articles from fibers bonded with oil-resistant synthetic rubber. 3,645,958, 2-29-72, Cl. 260-33.6.
Palumbo, Henry Joseph, to Johns-Manville Corporation. Compressed asbestos sheet packing products and method. 3,694,304, 9-26-72, Cl. 161-168.000.
Palumbo, Nunzio J.; and Macione, Jack F. Combination lock and deterrent. 3,664,276, 5-23-72, Cl. 109-29.
Palumbo, Pete, to United States Steel Corporation. Apparatus for and method of collecting smoke from coke ovens during charging. 3,647,053, 3-7-72, Cl. 201-1.
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Senolt, Hans; Tomaschko, Heinrich; and Palvik, Georg, 3,652,445.
Palyi, Leslie, to Pora, Nicholas. Two stage hammer mill. 3,643,879, 2-22-72, Cl. 241-55.
Palyi, Leslie; and Larsen, Helge. Treating cereal grains and seeds. 3,703,200, 11-21-72, Cl. 146-221.500.
Palynchuk, Alexander. Process for making continuous metal members such as sucker rod strings. 3,689,326, 9-5-72, Cl. 148-12.300.
Pamer, Karl A., to McNeil Corporation. Welded box-type structural member. 3,694,990, 10-3-72, Cl. 52-731.000.
Pamlenyi, George, to Carlson, Chesley F., Company. Photo process timer. 3,672,767, 6-27-72, Cl. 355-37.000.
Pammer, Erich: *See—*
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Oberkirch, Wolfgang; Gunther, Peter; and Pampus, Gottfried, 3,655,584.
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Pan American Petroleum Corporation: *See—*
Duncan, Floyd R., 3,670,813.
Howard, George C., 3,641,961.
Jones, Loyd W., 3,703,477.
Lindley, Ralph H.; and Bickham, Richard E., 3,671,961.
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Lummus, James L.; and Field, Leroy J., 3,703,467.
Silverman, Daniel, 3,677,342.
Pan, Coda Hoong-Tao, to Mechanical Technology Incorporated. Combination clamping and bearing system. 3,704,920, 12-5-72, Cl. 308-9.000.
Pan, Edward S.: *See—*
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Pan-Nova, Inc.: *See—*
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Panacon Corporation: *See—*
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Panametrics, Inc.: *See—*
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Lynnworth, Lawrence C.; Patch, Dana R.; and Carnevale, Edmund H., 3,636,754.
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Panariti, Viktor Mitrushi. Fluid pump. 3,664,772, 5-23-72, Cl. 417-486.
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Wheaton, Theodore C., III.; and Panas, Walter, 3,706,517.
Panasewicz, Anton Z., to Dura-Pak, Inc. Bag opening apparatus. 3,678,652, 7-25-72, Cl. 53-385.000.
Panaura Limited: *See—*
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Pande, Kailash C., to Borg-Warner Corporation. Synthesis of α-haloacrylonitrile. 3,659,006, 4-25-72, Cl. 260-465.7.
Pande, Kailash Chandra: *See—*
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Pandell, Nestor W.; and Temin, Samuel C., to Cluett, Peabody & Co., Inc., mesne. Application of reactants and/or catalysts to textile fabrics in micro-encapsulated form. 3,632,296, 1-4-72, Cl. 8-115.5.
Pandjiris, Anthony K.; Frederick, Arthur I.; and Weinfurt, Edward J., to Pandjiris Weldment Co., The. Welding head. 3,670,139, 6-13-72, Cl. 219-130.000.
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Panek, Mitchell W., to Swift & Company. Meat injection system. 3,636,857, 1-25-72, Cl. 99-257.

Panek, Mitchell W. Injector device. 3,682,087, 8-8-72, Cl. 99-256.000.

Panelli, Pio, to Fiat Societa per Azioni. Locking device for a hinged window in a motor vehicle. 3,652,112, 3-28-72, Cl. 292-210.

Panes, Jack, to Magic Charm, Inc. Undergarment with adjustable waist size and back support. 3,702,116, 11-7-72, Cl. 128-548.

Panesko, James V., to United States of America, Atomic Energy Commission. Process for palladium recovery. 3,694,370, 9-26-72, Cl. 252-301.10r.

Panettieri, Pietro. Safety switch to interrupt an electrical circuit in case of collision. 3,644,690, 2-22-72, Cl. 200-61.5.

Panfili, Jack. Clip for closing fragile stuffed casings. 3,640,317, 2-8-72, Cl. 140-82.

Pang, Michael, to American Cyanamid Company. Method of recovering metals. 3,637,476, 1-25-72, Cl. 204-106.

Pang, Michael, to American Cyanamid Company. Recovering metals by extraction with a quinaldinic acid and electrowinning from the stripped chelate. 3,697,400, 10-10-72, Cl. 204-106.000.

Pangalila, Frans V. A., to Flume Stabilization Systems, Inc. Catamaran stabilizer. 3,653,354, 4-4-72, Cl. 114-125.

Pangalila, Frans V. A., to McMullen, John J., Associates, Inc. Resilient roll controlling railway car side bearings. 3,670,661, 6-20-72, Cl. 105-199.00a.

Pangman, William J. Surgically implantable compound breast prosthesis. 3,683,424, 8-15-72, Cl. 3-36.000.

Panhandle Eastern Pipe Line Company: *See—*
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Panhard, Jean, to Societe de Constructions Mechaniques. Rotary piston internal combustion engines. 3,683,868, 8-15-72, Cl. 123-8.130.

Panhard, Jean, to Societe de Constructions Mecaniques Panhard & Levassor. Ignition devices for internal combustion engines. 3,703,887, 11-28-72, Cl. 123-117.00r.

Panhard, Jean, to Societe de Construction Mecaniques Pamhard & Levassor. Post-combustion devices for internal combustion engines. 3,704,592, 12-5-72, Cl. 60-290.000.

Panholzer, Horst: *See—*
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Panicci, Richard L.: *See—*
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Panico, Joseph: *See—*
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Panico, Joseph; and Lopin, Michael, to Health Systems, Inc. Electrolyte envelope for use on the active surface of a defibrillator paddle. 3,702,613, 11-14-72, Cl. 128-417.000.

Panico, Joseph J., to Health Systems, Inc. Therapeutic instrumentation electrode. 3,670,736, 6-20-72, Cl. 128-404.000.

Panico, Vincent A.: *See—*
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Paniez, Jean-Marie Joseph. Rack for agitating movement and inclination of bottles of champagne. 3,682,088, 8-8-72, Cl. 99-277.200.

Panigati, Pier L. Fluid operated sensor. 3,673,856, 7-4-72, Cl. 73-37.500.

Panigati, Pier Luigi. Fluid-operated cylinder. 3,696,714, 10-10-72, Cl. 92-170.000.

Panish, Morton B.; and Sumski, Stanley, to Bell Telephone Laboratories, Incorporated. Crystal growth apparatus. 3,677,228, 7-18-72, Cl. 118-422.000.

Panitz, Leon J., to Park Planning Inc. Mobile home arrangement. 3,678,639, 7-25-72, Cl. 52-79.000.

Panizzi, Rolf P. Method and apparatus for automatic switching of radios and tape recorders. 3,646,278, 2-29-72, Cl. 179-100.1.

Pankers, Alva L., to Braddock, William A. Protective garment for bedridden people. 3,648,291, 3-14-72, Cl. 2-16.

Pankey, Titus, Jr.: *See—*
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Pankoke, Werner; and Kormeyer, Dieter, to Hymmen, Theodor, KG. Apparatus for pouring surface treatment liquids onto workpieces. 3,662,710, 5-16-72, Cl. 118-324.

Pankova, Valentina Fedorovna: *See—*
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Pankove, Jacques Issac, to RCA Corporation. Electroluminescent semiconductor device of GaN. 3,683,240, 8-8-72, Cl. 317-234.00r.

Pankow, Edmund G., to Westinghouse Electric Corporation. Oven liner ground connection. 3,693,130, 9-19-72, Cl. 339-14.00r.

Pankow, Gerrit: *See—*
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Pankow, Herbert G.: *See—*
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Pankow, Paul A. H.; and Devries, Richard Alan, to Minnesota Mining and Manufacturing Company. Code structure on film cartridges. 3,666,361, 5-30-72, Cl. 352-78.

Pankratz, Harry A. Dental hammer. 3,686,756, 8-29-72, Cl. 32-43.000.

Pankuweit, Hartmut: *See—*
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Pannel, Otis R.: *See—*
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Pannell, Calvin E., to Dow Chemical Company, The. Plastisols and propellants containing alkylene dihydrazines. 3,657,028, 4-18-72, Cl. 149-19.

Pannell, McNeal. Radiator holding device. 3,669,438, 6-13-72, Cl. 269-20.000.

Panneman, Harm Jean, to Organon Inc. Phthalazine derivatives. 3,641,026, 2-8-72, Cl. 260-250.

Pannier Corporation, The: *See—*
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Pannier, Karl A., Jr.: *See—*
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Reynolds, Gordon S.; Pannier, Karl A., Jr.; and Sorenson, James L., 3,685,517.
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Pannier, Karl A., Jr.; Reynolds, Gordon S.; and Sorenson, James L., to LeVoy's Inc. Vacuum drainage collecting apparatus with disposable liner. 3,680,560, 8-1-72, Cl. 128-276.000.

Panning, Artin R., to Blower Application Company. Combined shredding, compacting and incinerating apparatus. 3,685,437, 8-22-72, Cl. 100-45.000.

Panosh, Richard L. Automatic swimming pool skimmer. 3,633,749, 1-11-72, Cl. 210-121.

Panousis, Peter T.: *See—*
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Panov, Alexei Alexandrovich: *See—*
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Panshin, Boris Mikhailovich: *See—*
Andreev, Pavel Alexeevich; Blinov, Konstantin Andreevich; Gremilov, Dmitry Ivanovich; Kanaun, Boris Izrailevich; Kanaev, Andrei Andreevich; Aslanian, Gurken Nazarovich; Paramonov, Pavel Mikhailovich; Panshin, Boris Mikhailovich; Sobolev, Sergei Petrovich; nd Shubenko-Shubin, Leonid Alexandrovich, 3,693,599.

Pansing, Nelson J., to General Motors Corporation. Thermal cycling heat range switch with wiping action. 3,636,490, 1-18-72, Cl. 337-93.

Pansini, Andrew L. Automatic chlorinator for swimming pools. 3,655,054, 4-11-72, Cl. 210-169.

Pansini, Andrew L. Swimming pool leaf trap. 3,667,611, 6-6-72, Cl. 210-244.000.

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Panson, Armand J.; and Ruka, Roswell J., to Westinghouse Electric Corporation. Homogeneous precipitation of alkaline-earth metal halophosphate phosphors. 3,694,371, 9-26-72, Cl. 252-34.40p.

Pansy, Felix: *See—*
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Pantas, Leo J.: *See—*
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Pantazis, John A. Heatsealing apparatus. 3,684,612, 8-15-72, Cl. 156-251.000.

Pantchenko, Gregory: *See—*
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Pantec Development Company: *See—*
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Panteleimonov, Vladimir Mikhailovich: *See—*
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Panter, Peter D.; Denis, Claude P-E.; and Kaempfer, Gerhard P., to Wolverine World Wide, Inc. Torsion action cutting and marking die. 3,688,325, 9-5-72, Cl. 12-52.500.

Panter, Peter D.; Denis, Claude P-E.; and Kaempf, Gerhard P., to Wolverine World Wide, Inc. Vision effective cutting and marking die. 3,698,028, 10-17-72, Cl. 12-52.500.

Panter, Robert B.; Dufton, John Peter; Duthie, Robert W.; and Verbaas, George, to GTE Automatic Electric Laboratories Incorporated. Dial pulse incoming trunk and register arrangement. 3,678,197, 7-18-72, Cl. 179-18.0eb.

Panther Machine Corporation: *See—*
Grimm, Harold; and Zuckerman, Ira, 3,672,662.
Grimm, Harold H.; and Zuckerman, Ira, 3,645,524.

Panther, Richard H.; and Purser, Charles Ralph, to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence of Her Majesty's Canadian Government. Spherical halogen Geiger tube. 3,646,381, 2-29-72, Cl. 313-93.

Pantke, Heinz-Dieter; and Pohl, Ulrich, to Huttenwerk Oberhausen AG. System for charging electric-arc furnaces. 3,634,592, 1-11-72, Cl. 13-33.

Panto, Joseph S.: *See—*
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Pantzer, Myron; and Feier, Milton, to Apod Corporation. Amino acid/phenylamine reactant-dyes for keratinous fibers and living hair. 3,698,852, 10-17-72, Cl. 8-10.200.

Panzarella, Santo C.: *See—*
Beachner, George J., Jr.; Beachner, Howard A.; and Panzarella, Santo C., 3,680,478.

Panzer, Hans P.; Yare, Robert S.; and Forbes, Malcolm R., to General Foods Corporation. Green bean decaffeination employing fluorinated hydrocarbons. 3,669,679, 6-13-72, Cl. 99-70.000.

Panzer, Hans Peter, to American Cyanamid Company. Production of alcohol-free vinylamidines. 3,666,705, 5-30-72, Cl. 260-29.6an.

Panzer, Jerome, to Esso Research and Engineering Company. Lubricating oil compositions of improved thermal stability. 3,664,955, 5-23-72, Cl. 252-47.5.

Panzer, Max L.: *See—*
Lee, Richard G.; Schleicher, Allen K.; Panzer, Max L.; and Brock, John E., 3,650,566.

Panzer, Norman. X-ray film identification means. 3,668,394, 6-6-72, Cl. 250-67.000.

Panzer, Norman. Power-assisted inflation assembly for sphygmomanometers. 3,670,720, 6-20-72, Cl. 128-2.05g.

Pao, Robert K. C.; and Fricke, Louis H., Jr., to Monsanto Company. Square root extractor for a process control system. 3,663,833, 5-16-72, Cl. 307-229.000.

Pao, Yoh-Han, to Battelle Development Corporation, The, mesne. Controllable magnetooptical devices employing magnetically ordered materials. 3,666,351, 5-30-72, Cl. 350-151.

Paola, Carl Ralph: *See—*
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Paoletta, Rocco E.; and Petrou, William, to Perma Horn Sales Corporation. Laminated shoehorn. 3,643,350, 2-22-72, Cl. 36-2.5.

Paoletti, Alfred J.: *See—*
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Morane, Bruno; Paoletti, Charles; Merrien, Louis; Sathicq, Robert; and Maurelli, Manlio, 3,659,395.
Morane, Bruno; Maurelli, Manlio; Paoletti, Charles; Merrien, Louis; and Sathicq, Robert, 3,667,652.
Morane, Bruno; Paoletti, Charles; and Terrasse, Gilles, 3,675,821.
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Paoletti, John P. Wallboard construction. 3,675,383, 7-11-72, Cl. 52-222.000.

Paoli, Stephen A. Heavy duty machine for production of comminuted meat and other foods. 3,659,638, 5-2-72, Cl. 146-76.

Paoli, Thomas L.: *See—*
Dyment, John C.; Paoli, Thomas L.; and Ripper, Jose' E., 3,654,497.

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Paoli, Thomas Lee; and Ripper, Jose Ellis, to Bell Telephone Laboratories, Incorporated. Dynamic AM control of the transverse modes of a self-pulsing semiconductor laser. 3,680,001, 7-25-72, Cl. 331-94.00.

Paoli, Thomas Lee; and Ripper, Jose Ellis, to Bell Telephone Laboratories, Incorporated. Mode-locking in semiconductor lasers. 3,696,310, 10-3-72, Cl. 331-94.500.

Paoli, Thomas Lee; and Ripper, Jose Ellis, to Bell Telephone Laboratories, Incorporated. Optical coupling of adjacent stripe contact geometry semiconductor lasers. 3,701,044, 10-24-72, Cl. 331-94.500.

Paolini, Giancarlo; and Micheletti, Ciro, to Societa per l'Esercizio Dell Istituto Sperimentale Dei Metalli Leggeri. Self-coloring anodic oxidation of aluminium and its alloys. 3,692,644, 9-19-72, Cl. 204-58.000.

Paolini, John P.; and Lendvay, Louis J., to Richardson-Merrell Inc. 6-Chloroimidazo [2,1-b] thiazole and its 5-substituted derivatives. 3,632,816, 1-4-72, Cl. 260-306.7.

Paolo Bocciardo: *See—*
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Paolucci, Julius J.: *See—*
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Paolucci, Paride: *See—*
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Paone, Mary T. Iron rest. 3,698,674, 10-17-72, Cl. 248-117.600.

Papa, Anthony Joseph; and Proops, William Robert, to Union Carbide Corporation. Phenolic foam process. 3,640,911, 2-8-72, Cl. 260-2.5.

Papa, Anthony Joseph; and Proops, William Robert, to Union Carbide Corporation. Non-punking phenolic foam. 3,673,130, 6-27-72, Cl. 260-2.50f.

Papa, Paolo; and Capetti, Federico, to Societa' Nebiolo S.p.A. Sheet transfer roller for use in multi-colour rotary printing presses. 3,643,598, 2-22-72, Cl. 101-420.

Papachristou, Christos. Automatic starter for internal combustion machines. 3,691,393, 9-12-72, Cl. 290-30.000.

Papadakis, Emmanuel P., to Bell Telephone Laboratories, Incorporated. Electromechanical wave filter. 3,638,145, 1-25-72, Cl. 333-71.

Papadakis, Emmanuel P., to Bell Telephone Laboratories, Incorporated. Nonuniform pressure bonding method. 3,664,902, 5-23-72, Cl. 156-580.

Papadopoulos, Michael N.; and Ueber, Russell C., to Shell Oil Company. Method of producing oil from an oil shalf formation containing nahcolite and dawsonite. 3,700,280, 10-24-72, Cl. 299-5.000.

Papadopoulos, Stelios B.: *See—*
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Helms, Clifford J.; and Papadopoulos, Stelios B., 3,666,977.
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Papadopulos, Michael Savvas: *See—*
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Papageorgiou, Dimitri G.: *See—*
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Papaioannou, Christos George: *See—*
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Papaioannou, Christos George, to American Cyanamid Company. Mixed anhydrides of N-aroyl-1-lower alkyl-5-nitro-2-imidazolecarboximidic acid and benzoic acids. 3,673,208, 6-27-72, Cl. 260-309.000.

Papaioannou, Christos George, to American Cyanamid Company. Preparation of 2-(2-amino-1,3,4-thiadiazol-5-yl) -1-substituted-5-nitroimidazoles. 3,682,942, 8-8-72, Cl. 260-306.80d.

Papaioannou, Christos George, to American Cyanamid Company. Process for preparing a 1-(lower alkyl)-5-nitro-2-imidazolecarboximidate ester. 3,694,452, 9-26-72, Cl. 260-309.000.

Papaioannou, Christos George, to American Cyanamid Company. Preparation of 2-substituted-5-amino or substituted amino 1,3,4-thiadiazoles. 3,705,171, 12-5-72, Cl. 260-306.80d.

Papaioannou, Christos George. Process for preparing 2,4,6-tris (tert alkylamino-s-triazines. 3,706,741, 12-19-72, Cl. 260-249.600.

Papajewski, Reinhold; and Kleinschmidt, Johann, to Singer Company, The, mesne. Thread-pull-off and wiping mechanism for sewing machines. 3,695,200, 10-3-72, Cl. 112-242.000.

Papanastassiou, Zinon B.; and Neumeyer, John L., to Little, Arthur D., Inc., mesne. N-(2-fluoroethyl)-N-[2-(3-indole)ethyl] amines. 3,674,809, 7-4-72, Cl. 260-326.150.

Papanastassiou, Zinon B.; and Neumeyer, John L., to Little, Arthur D., Inc., mesne. 3-Indole-glyoxamides. 3,691,194, 9-12-72, Cl. 260-326.13r.

Papav, Valery Georgievich: *See—*
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Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikailovich; Shevisov, Anatoly Ivanovich; Grinsnpon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexandr Mikhaivich, 3,687,188.

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Papee, Denis; and Lavalou, Michel, to Produits Chimiques Pechiney-Saint-Gobain. High porous activated alumina and method. 3,701,718, 10-31-72, Cl. 203-141.000.

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Papetti, Stelvio, to Olin Mathieson Chemical Corporation. Polymeric amino aluminum borohydride and method of preparing. 3,703,359, 11-21-72, Cl. 23-359.000.

Papiano, Francis John, to RCA Corporation. Method of alloying two metals. 3,690,943, 9-12-72, Cl. 117-212.000.

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Papirnyik, Andrew G., to Singer Company, The. Storage box with interchangeable graphics. 3,679,047, 7-25-72, Cl. 206-39.000.

Papke, Friedrich, to Voigtlander A.G. Camera with adjustment-indicating location. 3,675,552, 7-11-72, Cl. 95-11.00v.

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Papousek, Robert D. Shock absorbers for vehicles. 3,682,462, 8-8-72, Cl. 267-34.000.

Papp, Josef, to Environetics, Inc. Method and means of converting atomic energy into utilizable kinetic energy. 3,670,494, 6-20-72, Cl. 60-23.

Papp, Josef, to Environetics Inc. Method and means for generating explosive forces. 3,680,431, 8-1-72, Cl. 89-7.000.

Pappadakis, Nicholas J., to Tenneco Chemicals, Inc. Matrix material for production of plastic printing plates. 3,668,058, 6-6-72, Cl. 161-165.000.

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Pappas, James J.; and Keaveney, William P., to Inmont Corporation. Process for producing aldehydes by ozonizing and reducing certain aromatic and heterocyclic compounds containing carbon-to-carbon unsaturation. 3,637,721, 1-25-72, Cl. 260-297.

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Pappas, Michael, to Falcon Safety Products, Inc. Tilt-operated hand held gas powered acoustic device. 3,670,689, 6-20-72, Cl. 116-112.000.

Pappatheodorus Betancourt, Angel. Vehicle drawn trailer system. 3,692,332, 9-19-72, Cl. 280-423.00r.

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Papritz, Hans, to Haag Streif AG. Device for compensation of a force of constant value and direction. 3,685,779, 8-22-72, Cl. 248-399.000.

Papst, Georg F.; Gierschek, Emil; and Papst, Hans-Dieter, to Papst-Motoren KG. Fan assembly for a ventilator. 3,700,358, 10-24-72, Cl. 417-354.000.

Papst, Hans-Dieter: *See—*
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Papst, Hermann E. R. Two-stroke internal combustion engine. 3,695,239, 10-3-72, Cl. 125-65.0pd.

Papst, Hermann Ernst Robert. Piston motor with swash-plate engine assembly. 3,678,807, 7-25-72, Cl. 92-70.000.

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Paquette, Omer E. Dental cutting tool. 3,688,407, 9-5-72, Cl. 32-40.00r.

Paquette, Raymond E., to Republic National Bank of Dallas/Irving Trust Company and Union Bank. Arc lamp including electrodes having integral means for securing the electrodes against shock dislodgement. 3,633,061, 1-4-72, Cl. 313-283.

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Paramonoff, Elpidifor, to Standum Inc. Stripper for apparatus such as metallic can body former. 3,664,171, 5-23-72, Cl. 72-344.

Paramonoff, Elpidifor, to Standum Inc. Redraw blankholder positioning mechanism for cup-shaped article formers such as metallic can body formers and the like. 3,704,619, 12-5-72, Cl. 72-349.000.

Paramonov, Nikolai Parfentievich. Apparatus for determining fat concentration in materials. 3,669,629, 6-13-72, Cl. 23-259.000.

Paramonov, Pavel Mikhailovich: *See—*
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Paraskos, John A.; and Somers, Allen E., to Gulf Research & Development Company. Hydrodesulfurization of crude and residual oils at reduced space velocity. 3,706,657, 12-19-72, Cl. 208-216.000.
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Parcell, Robert F., to Parke, Davis & Company. Oximes of 3,4-dimethoxyphenylpyruvic acid esters. 3,674,834, 7-4-72, Cl. 260-471.00a.
Parcells, Alan; and Dahlgren, Donald A., to Upjohn Company, The. Purification of lactogen. 3,687,833, 8-29-72, Cl. 204-180.00g.
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Pardun, Hermann, to Lever Brothers Company. Phosphatide extraction. 3,661,946, 5-9-72, Cl. 260-403.
Paredes, Candelario, to Forney Engineering Company. Damper with double floating side rails. 3,696,804, 10-10-72, Cl. 126-285.00r.
Paredes, Candelario, to Forney Engineering Company. Airport ground aircraft automatic taxi route selecting and traffic control system. 3,706,969, 12-19-72, Cl. 340-26.000.
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Parenti, Giorgio, to Siai-Marchetti S.p.A. Torquemeter reduction gear. 3,648,533, 3-14-72, Cl. 74-410.
Parenti, Giorgio, to Siai-Marchetti S.p.A. Fuel delivery system for a plurality of aircraft engines. 3,669,136, 6-13-72, Cl. 137-113.
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Parikh, Jekishan R.; and Breuer, Max E., to Upjohn Company, The. Method for the preparation of 6-methyl-3-oxo-delta 4,6-steroids. 3,705,181, 12-5-72, Cl. 260-397.400.
Parilla, Arthur R. Talking clock apparatus. 3,644,682, 2-22-72, Cl. 179-100.1.
Parilla, Arthur R. Missile configurations, controls and utilization techniques. 3,692,258, 9-19-72, Cl. 244-3.210.
Parilla, Arthur R. Cooling techniques for high temperature engines and other components. 3,700,171, 10-24-72, Cl. 239-127.300.
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Paris, Gerard Y.; and Garmaise, David L., to Abbott Laboratories. Certain derivatives of 5-H[4,3-b] and 9-H[3,4-b]-1,2,3,4-tetrahydropyridoindoles. 3,654,289, 4-4-72, Cl. 260-295.
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Parish, William R.; and Kelley, James C., to Wellman-Lord, Inc. Concentrating fluosilicic acid. 3,645,678, 2-29-72, Cl. 23-153.
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Park, John R. Towed folding camper having a low profile. 3,697,121, 10-10-72, Cl. 296-23.00r.
Park, Joseph D.; and Choi, Sam Kwon, to Minnesota Mining and Manufacturing Company. Polyfluorotricycloalkenes. 3,637,871, 1-25-72, Cl. 260-649.
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Parkell, Edward F., to Dart Industries Inc. Apparatus for the transfer of articles. 3,679,041, 7-25-72, Cl. 198-24.000.
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Parker, Bill G. Drill string member and method for manufacture. 3,645,587, 2-29-72, Cl. 308-4.
Parker, Calvin E., Sr., to Bethlehem Steel Corporation. Strip edge shaping apparatus. 3,680,441, 8-1-72, Cl. 90-24.00f.
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Parker, Eric G., to General Motors Corporation. Transverse windshield wiping apparatus. 3,644,956, 2-29-72, Cl. 15-250.16.
Parker, Eric G., to General Motors Corporation. Transverse wiper apparatus. 3,649,989, 3-21-72, Cl. 15-250.16.
Parker, Eric G.; and Wolf, Charles C., to General Motors Corporation. Squeegee wiper for tailgate windows. 3,686,705, 8-29-72, Cl. 15-250.010.
Parker, Eric George, to General Motors Corporation. Mechanism for opening and closing a cover for a concealed windshield wiper system. 3,694,846, 10-3-72, Cl. 15-250.160.
Parker, Ernest G.; and Craine, Richard W., to International Telephone and Telegraph Corporation. Omnidirectional beacon antenna. 3,691,562, 9-12-72, Cl. 343-761.000.
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Parker, Fred W., to Du Pont de Nemours, E. I., and Company. Process for hot spraying a thermosetting acrylic enamel modified with cellulose acetate butyrate. 3,657,001, 4-18-72, Cl. 117-105.1.
Parker, Fred W., to Du Pont de Nemours, E. I., and Company. Thermosetting acrylic enamel. 3,674,734, 7-4-72, Cl. 260-31.20n.
Parker, Gilbert R., to Lorain Products Corporation. Stripping machine for electrical conductors. 3,638,518, 2-1-72, Cl. 81-9.51.
Parker, Gordon M.; Wismer, Marco; and Hahn, Ernest A., to PPG Industries, Inc. Acryloxy esters of anhydrides. 3,679,731, 7-25-72, Cl. 260-475.00p.
Parker, Gordon M.; and Heuser, Raymond C., to PPG Industries, Inc. Acryloxy esters of anhydrides and coating compositions derived therefrom. 3,690,927, 9-12-72, Cl. 117-93.310.
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Parker, Harry W., to Phillips Petroleum Company. Water flooding method using gel and viscosity increasing materials. 3,638,729, 2-1-72, Cl. 166-273.
Parker, Harry W., to Phillips Petroleum Company. Waterflooding method. 3,667,546, 6-6-72, Cl. 166-274.

Parker, Harry W., to Phillips Petroleum Company. Retorting of nuclear chimneys. 3,698,478, 10-17-72, Cl. 166-248.000.
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Parlagreco, Thomas J. Beer can stein with attached handle. 3,692,202, 9-19-72, Cl. 220-1.0bc.
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Parr, Robert A., to Boeing Company, The. Blade inspection system and method. 3,667,862, 6-6-72, Cl. 416-61.000.
Parr, Russell Dale; and Dete, Leo Joseph, Jr., to Carlisle Tire and Rubber Division. Flexible expansion joint for structures. 3,643,388, 2-22-72, Cl. 52-58.
Parr, William Geoffrey, to Imperial Chemical Industries Limited. Apparatus for treatment of sheet structures. 3,638,329, 2-1-72, Cl. 34-122.
Parratt, Noel James: *See—*
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Parrent, Ottis L. Contact lens inserter. 3,697,109, 10-10-72, Cl. 294-1.0ca.
Parrent, William Russell: *See—*
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Parrett, John T., to Koehring Company. Differential pressure holding valve. 3,665,810, 5-30-72, Cl. 91-420.000.
Parrilla, Salvatore C. Interconnected picture frames. 3,648,393, 3-14-72, Cl. 40-152.
Parrinello, Anthony J.: *See—*
Etter, Doyle O.; and Parrinello, Anthony J., 3,650,742.
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Parrini, Paolo: *See—*
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Parrini, Paolo; Credali, Lino; and Chiolle, Antonio, to Consiglio Nazionale Delle Ricerche and Montecatini Edison S.p.A. Anion-exchange resins and process for preparation thereof. 3,686,100, 8-22-72, Cl. 260-2.10e.
Parris, Chester L.: *See—*
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Parris, Peter P., to Tridair Industries. Tie-down fitting. 3,696,759, 10-10-72, Cl. 105-369.00a.
Parrish, Donald Bob; and Pruitt, Ronnie Mac, to Dow Chemical Company, The. Polyurethanes. 3,676,379, 7-11-72, Cl. 260-2.5aq.
Parrish, Hushel L., Jr.: *See—*
Anderson, Richard M.; Parrish, Hushel L., Jr.; and Spade, Kenneth L., 3,691,786.
Parrish, Robert Guy, to Du Pont de Nemours, E. I., and Company. Microcellular foam sheet. 3,637,458, 1-25-72, Cl. 161-150.
Parrish, Russell C., to Phillips Petroleum Company. Material moving apparatus and method. 3,677,311, 7-18-72, Cl. 141-1.000.
Parry, Curtis L.: *See—*
Mumma, Harold J.; and Parry, Curtis L., 3,633,506.
Parry, Harvey L.; and Landua, Alton J., to Shell Oil Company. Crystalline 1,5-diglycidylnaphthalene and cured products thereof. 3,635,843, 1-18-72, Cl. 260-2.
Parry, James R.: *See—*
Fox, Marvin L.; and Parry, James R., 3,640,304.
Parry, James W. Bridle bit having improved mouthpiece mounting. 3,670,476, 6-20-72, Cl. 54-8.000.
Parry, John, to Ingenious Devices Limited. Apparatus for providing oil grooves in valve guides. 3,700,343, 10-24-72, Cl. 408-81.000.
Parry, John R., to Campbell Soup Company. Farm machine for removing protective ground covers from a cultivated field. 3,687,392, 8-29-72, Cl. 242-86.50r.
Parry, Keith S.: *See—*
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Parry, Robert D.; deceased (by Parry, Margaret G.; executrix). Wall mount device for guns. 3,637,180, 1-25-72, Cl. 248-203.
Parry, Walter E., to International Business Machines Corporation. Keyboard. 3,684,827, 8-15-72, Cl. 178-17.00c.
Pars, Harry G.: *See—*
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Razdan, Raj K.; Granchelli, Felix E.; and Pars, Harry G., 3,639,427.
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Razdan, Raj K.; Thompson, William R.; Granchelli, Felix E.; and Pars, Harry G., 3,661,919.
Pars, Harry G.; and Granchelli, Felix E. Compound, 2-benzyl-10-(1-cyclohexylethyl)-5, 5-dimethyl-8-hydroxy-1,2,3,4-tetrahydro-5H-[1]-benzopyrano[3,4-d]pyridine. 3,632,595, 1-4-72, Cl. 260-297.
Pars, Harry G.; Granchelli, Felix E.; and Razdan, Raj K., to Little, Arthur D., Inc., mesne. 1,2,3,4-Tetrahydro 5H-[1]benzopyrano[3,4-a] pyridine. 3,635,993, 1-18-72, Cl. 260-297.
Pars, Harry G.; and Razdan, Raj K., to Beecham Group Limited, mesne. Certain 1,2,3,6 or 1,2,5,6-tetrahydropyridine intermediates. 3,652,576, 3-28-72, Cl. 260-297.
Pars, Harry G.; and Granchelli, Felix E., to Little, Arthur D., Inc. Novel 6-oxo-7,8,9,10-tetrahydro-6H-dibenzo [b,d]pyrans. 3,654,312, 4-4-72, Cl. 260-343.2.
Pars, Harry G.; and Granchelli, Felix E., to Little, Arthur D., Inc. 7,8,9,10-Tetrahydro (and 7,8,9,10,11,12-hexahydro) 6H-dibenzo[b,d]pyrans. 3,676,462, 7-11-72, Cl. 260-345.300.
Parsen, Edward M. Cable gripping towing device. 3,672,636, 6-27-72, Cl. 254-134.30r.
Parshad, Ram, to Research Corporation. Intercommunication system. 3,665,106, 5-23-72, Cl. 179-1.
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Parshall, George William, to Du Pont de Nemours, E. I., and Company. Catalytic oxidation of cyclododecene to 1,2-dodecanedioic acid. 3,646,130, 2-29-72, Cl. 260-533.
Parshall, George William, to Du Pont de Nemours, E. I., and Company. Process for the preparation of 2-acyloxycyclododecanones. 3,657,292, 4-18-72, Cl. 260-410.
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Parshin, Alexei Nikolaevich, to Vsesojuzny Nauchno-Issledovatelsky Institut Legkogo i Textilnogo Mashinostroenija. Selvage forming device for looms. 3,685,551, 8-22-72, Cl. 139-122.00s.
Parsi, Edgardo J., to Ionics, Incorporated. Carbonation process for SO_2 removal. 3,645,882, 2-29-72, Cl. 204-301.
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Parsons, Billie D. Grain drill with rod weeder. 3,661,101, 5-9-72, Cl. 111-69.
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Parsons, Charles H., to Edwards Company, Inc. Ground detector system having fast response and decoupling of detector circuit. 3,696,366, 10-3-72, Cl. 340-255.000.
Parsons, Charles L. Sorghum seed holder bird feeder. 3,646,911, 3-7-72, Cl. 119-51.
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Parsons, John T. Use of tape-controlled milling machines to carve combustible casting patterns. 3,635,124, 1-18-72, Cl. 90-11.
Parsons, John T. Self-aligned multi-part combustible casting pattern and method of making same. 3,635,280, 1-18-72, Cl. 164-246.

Parsons, John T. Superimposed modular construction of vaporizable patterns. 3,707,029, 12-26-72, Cl. 29-407.000.
Parsons, Marshall F. Vertical kiln system and process. 3,697,057, 10-10-72, Cl. 263-29.000.
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Parsons, Ronald W., to Allcock Laight and Westwood Limited. Expansible connector for joining tubes. 3,674,293, 7-4-72, Cl. 287-56.000.
Parsons, Ronald W., to Allcock Laight and Westwood Limited. Carriage for skis. 3,695,495, 10-3-72, Cl. 224-29.00r.
Parsons, Stuart L., to AMP Incorporated. Terminal tape and method for making the same. 3,650,706, 3-21-72, Cl. 29-193.5.
Parsons, Timothy F., to Eastman Kodak Company. Diffusion transfer product and process containing 5-seleno-1,2,3,4-tetrazole. 3,655,380, 4-11-72, Cl. 96-29.
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Partain, James H.; and Johnson, Richard H., to Stone Container Corporation. Mailing container with cushioning cell construction. 3,664,573, 5-23-72, Cl. 229-40.
Partain, James H.; and Johnson, Richard H., to Stone Container Corporation. Paperboard cushioning cell construction. 3,666,168, 5-30-72, Cl. 229-40.000.
Parthasarathy, R.; Scherzer, Julius; and Warthen, John L., to Grace, W. R., & Co. Hydrocracking catalyst. 3,652,459, 3-28-72, Cl. 252-455.
Parthasarathy, R; and Ciapetta, Frank G., to Grace, W. R., & Co. Oxidation process. 3,666,804, 5-30-72, Cl. 260-530.00n.
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Partridge, Donald F. Circuit for controlling the conduction of a switching device. 3,652,874, 3-28-72, Cl. 307-252.
Partridge, Gerald J., to Robbins, Jim, Seat Belt Company. Double locking retractable seat belt assembly. 3,664,599, 5-23-72, Cl. 242-107.400.
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Partridge, Harvie C., to Smithpac Canada Ltd. Vertical packer assembly and guide frame thereof for refuse carrier. 3,688,928, 9-5-72, Cl. 214-83.300.
Partridge, Jerry A.; and Jensen, Reilly C., to United States of America, Atomic Energy Commission. Method for purification of di-(2-ethylhexyl) phosphoric acid. 3,641,226, 2-8-72, Cl. 260-990.
Partridge, Leslie W., to Burdick Corporation, The. Position sensor. 3,636,449, 1-18-72, Cl. 324-157.
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Pasbrig, Max. Make-and-break spark plug. 3,693,607, 9-26-72, Cl. 123-143.00r.
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Paschal, Forrest A.; Stuart, Gerald L.; and Pascal, Forrest A., II., to Paschal, Forrest, Machinery Company. Apparatus for stacking uncured brick. 3,700,274, 10-24-72, Cl. 294-63.00r.
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Pasek, James E.; and Woodward, Charles D., to General Motors Corporation. Anti-lock brake modulator. 3,671,085, 6-20-72, Cl. 303-21.00f.
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Pasieka, John F., to Polaroid Corporation. Identification card camera system capable of producing cards having different formats. 3,696,716, 10-10-72, Cl. 95-11.100.
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Pasini, Joseph, III; Overbey, William K., Jr.; and Slagle, Franklin D., to United States of America, Interior. Radial flow cell. 3,636,751, 1-25-72, Cl. 73-38.
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Passal, Frank, to M & T Chemicals Inc. Nickel electroplating and electrolytes therefor. 3,677,912, 7-18-72, Cl. 204-49.000.
Passal, Frank, to M & T Chemicals Inc. Nickel plating. 3,677,913, 7-18-72, Cl. 204-49.000.
Passal, Frank; and Tomson, Arthur J., to M & T Chemicals Inc. N-2,3-dibromopropenyl pyridinium, quinolinium and isoquinolinium derivatives. 3,678,055, 7-18-72, Cl. 260-290.00r.
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Patry, Leon R. Connector for a post-mounted lighting fixture. 3,696,242, 10-3-72, Cl. 240-84.000.

Patry, Leon R., to Adjusta-Post Manufacturing Company. Mounting device for a light fixture globe. 3,704,368, 11-28-72, Cl. 240-128.000.

Patsch, Manfred; and Eilingsfeld, Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Anthraquinone dyes. 3,671,536, 6-20-72, Cl. 260-307.500.

Patschan, Wolfgang: *See—*
Kersten, Karl-Heinz; and Patschan, Wolfgang, 3,673,515.

Patsis, Angelos V.: *See—*
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Patt, Sylvester. Boring and facing head. 3,685,917, 8-22-72, Cl. 408-150.000.

Pattantyus, Tamas I., to Westinghouse Electric Corporation. Frequency difference detector. 3,663,884, 5-16-72, Cl. 328-134.

Pattberg, Georg: *See—*
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Patten, Bradley T. Artificial ice nuclei generator. 3,645,446, 2-29-72, Cl. 239-14.

Patten, Dan H. Land and water craft trailer unit. 3,677,425, 7-18-72, Cl. 214-85.100.

Patten, James W.: *See—*
Deminet, Czeslaw; Patten, James W.; and Van Der Mark, Hendrik H., 3,633,267.

Patten, Raymond A. Apparatus for monitoring film thickness by reflecting a light beam from the film surface. 3,645,623, 2-29-72, Cl. 356-1.

Patten, Stanley F., Jr.: *See—*
Wheeless, Leon L., Jr.; and Patten, Stanley F., Jr., 3,657,537.

Patterson, Albert D., to North Electric Company. Binary synchronous up/down counter. 3,704,361, 11-28-72, Cl. 235-92.0cp.

Patterson, Andrew M., Jr.: *See—*
Danly, Donald E.; and Patterson, Andrew M., Jr., 3,660,258.

Patterson, Billy R., to Lone Star Steel Company. Traveling valve. 3,690,348, 9-12-72, Cl. 138-97.000.

Patterson, Carl Dean, to Celanese Corporation. Cigarette filter construction. 3,648,712, 3-14-72, Cl. 131-10.5.

Patterson, Carol M.; and Lero, Thomas E., to Research Equipment Company. Animal cage door locking device. 3,651,786, 3-28-72, Cl. 119-17.

Patterson, Charles B., to Purex Corporation, Ltd. Method for soap bars having marble-like decoration. 3,676,538, 7-11-72, Cl. 264-75.000.

Patterson, David D., to Garkan, Herschal F. Baby strollers. 3,689,099, 9-5-72, Cl. 280-38.000.

Patterson, Donald S., to Sargent Industries, Inc. Assembly adapted for use with ball screw actuator. 3,646,827, 3-7-72, Cl. 74-424.8.

Patterson, Donald S., to Sargent Industries, Inc. Sealing and wiping means for ball screw actuator. 3,678,776, 7-25-72, Cl. 74-459.000.

Patterson, Edwin B. Methods of producing a plurality of well streams. 3,634,998, 1-18-72, Cl. 55-32.

Patterson, Eldridge P.: *See—*
Berry, Robert E.; Bissett, Owen W.; Wagner, Charles J., Jr.; and Patterson, Eldridge P., 3,672,909.

Patterson, Gerald D., to Dow Chemical Company, The. Method and apparatus for dual location sonar measurement of caverns. 3,643,212, 2-15-72, Cl. 340-3.

Patterson, Gerald D., to Dow Chemical Company, The. Sonic method and means for determination of solution concentrations. 3,648,513, 3-14-72, Cl. 73-53.

Patterson, Gordon I.; and Telfer, Dugald J., to Vapor Corporation. Railroad switch heater. 3,697,746, 10-10-72, Cl. 246-428.000.

Patterson, Henry J. Re-usable buffing wheel carrier. 3,643,284, 2-22-72, Cl. 15-230.19.

Patterson, James A.: *See—*
Finkle, Eugene D.; and Patterson, James A., 3,679,205.

Patterson, James A.; McMurray, Raymond C.; and Schwarzott, Carol J., to Sondell Research & Development Co. Reagent generator. 3,632,496, 1-4-72, Cl. 204-249.

Patterson, James A., to Sondell Research & Development Co. Spherical electronic components. 3,683,307, 8-8-72, Cl. 338-99.000.

Patterson, John F.: *See—*
Andrews, Harry N.; Patterson, John F.; and Wilson, John F., 3,647,622.

Patterson, Jonn A.: *See—*
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Patterson, Joseph M., to FMC Corporation. Separator for harvested nuts and debris. 3,633,738, 1-11-72, Cl. 209-31.

Patterson, Le Roy, to American International Corporation. Combustion toilet. 3,683,425, 8-15-72, Cl. 4-231.000.

Patterson, Luther E. Combined lawn mower and edger. 3,690,384, 9-12-72, Cl. 172-15.000.

Patterson, Michael P. Combination greeting card and three dimensional ornament. 3,668,796, 6-13-72, Cl. 40-126.00a.

Patterson, N. Donald: *See—*
Scarnato, Thomas J.; and Patterson, N. Donald, 3,672,132.

Patterson, Paul Raymond; Fry, Darryl Diamond; and Klothen, Irving. Odor free non-caking conditioned urea composition and process of preparing same. 3,689,551, 9-5-72, Cl. 260-555.00c.

Patterson, Robert E.; and Walker, John L., Sr., to Walker, Johnnie, Medical Electronics, Inc. Automatic physiological recording and alarm system for hospitals. 3,646,930, 3-7-72, Cl. 128-2.06.

Patterson, Robert W., to United States Steel Corporation. Apparatus for controlling weight and distribution of a coating. 3,670,695, 6-20-72, Cl. 118-63.000.

Patterson, Robert W., to United States Steel Corporation. Apparatus for removing excess coating material from strip. 3,685,484, 8-22-72, Cl. 118-63.000.

Patterson, Roger Lee; and Brodie, Bryan William, to Deere & Company. Seed dispensing apparatus. 3,680,742, 8-1-72, Cl. 222-177.000.

Patterson, Roger Lee; and Ventresca, Mario, to Deere & Company. Rear furrow wheel control structure for disc tillers and the like. 3,700,042, 10-24-72, Cl. 172-385.000.

Patterson, Roger Lee; and Ventresca, Mario, to Deere & Company. Land wheel control means. 3,701,385, 10-31-72, Cl. 172-386.000.

Patterson, Roger Lee; and Isachsen, Henning, to Deere & Company. Tool mounting means for agricultural implements. 3,706,345, 12-19-72, Cl. 172-572.000.

Patterson, Ronald Lowdon Straiton: *See—*
Melrose, David R.; Patterson, Ronald Lowdon Straiton; and Reed, Hugh Charles Brent, 3,681,490.

Patterson, Thomas. Non-linear quantization reference amplitude lend time crossing intervals. 3,684,829, 8-15-72, Cl. 179-1.0sa.

Patterson, Velt C. Hot gas refrigeration defrosting system. 3,664,150, 5-23-72, Cl. 62-234.

Patterson, Waldo C.: *See—*
Payton, Charles E.; and Patterson, Waldo C., 3,654,460.

Patterson, Wayne A. Treatment of organic waste products. 3,668,120, 6-6-72, Cl. 210-60.000.

Patterson, William B., Jr., to Dresser Industries, Inc. Oil slick elimination. 3,634,227, 1-11-72, Cl. 210-11.

Patterson, William C., to Aluminum Company of America. Method of manufacturing aluminum coated ferrous base articles. 3,632,453, 1-4-72, Cl. 148-6.15.

Patterson, William J., to United States of America, National Aeronautics and Space Administration. Siloxane-containing epoxide compounds. 3,660,434, 5-2-72, Cl. 260-348.0sc.

Patterson, William J.; and Morris, Donald E., to United States of America, National Aeronautics and Space Administration. Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups. 3,666,718, 5-30-72, Cl. 260-46.50p.

Patterson-Kelley Co., Inc., The: *See—*
Clark, John A., Jr.; Morgan, Lemuel J.; and Kirschner, Robert F., 3,666,003.
Clark, John A., Jr.; Morgan, Lemuel J.; and Kirschner, Robert F., 3,666,918.
Drake, Charles E., 3,636,982.
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Kirschner, Robert F.; Clark, John A., Jr.; and Morgan, Lemuel J., 3,633,658.

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Patthy, Agnes, nee Lukats: *See—*
Kisfaludy, Lajos; Patthy, Agnes, nee Lukats; Dancsi, Lajos; Domok, Livia, nee Kis-Vigh; Karpati, Egon; and Szporny, Laszlo, 3,642,805.
Pattijn, Hendrik Adolf: *See—*
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Pattillo, Roy E.: *See—*
Gunter, Josef K.; Gunter, C. Walton; Pattillo, Roy E.; and Howe, James W., Jr., 3,681,815.
Pattison, Martin Oren; and Bohlmann, Willy Frank, Jr., to Esso Production Research Company. Method and apparatus for attaching pipelines to offshore structures. 3,690,112, 9-12-72, Cl. 61-72.300.
Pattison, Richard Arthur, to Electronized Chemicals Corporation. Portable electric heat gun. 3,668,370, 6-6-72, Cl. 219-373.000.
Pattison, Roy: *See—*
Coussell, Ivan John; and Pattison, Roy, 3,689,843.
Patton, Charles W., Jr., to Super Laundry Machinery Company, Inc. Small piece laundry folding machine. 3,642,270, 2-15-72, Cl. 270-62.
Patton, Frank J., Jr.; and Gardner, Danny J. Aerosol can puncher. 3,678,578, 7-25-72, Cl. 30-10.000.
Patton, George Allen, to AMP Incorporated. Electrical terminal block for interconnecting a plurality of conductors. 3,702,456, 11-7-72, Cl. 339-198.00h.
Patton, James C.: *See—*
Fehr, Isaac N., Jr.; Morris, Trebor B.; Russ, John J.; Bingham, Richard C.; Rubi, Jose M.; Patton, James C.; and Cannon, Sidney E., 3,649,304.
Patton, John T.; and Gillette, Thomas W. Process for producing light products from heavy hydrocarbons. 3,684,689, 8-15-72, Cl. 208-54.000.
Patton, John T., Jr.: *See—*
Pizzini, Louis C.; Demou, John G.; Patton, John T., Jr.; and Levis, William W., Jr., 3,652,639.
Patton, Richard A., to Morton International, Inc. Process for providing improved polyvinylidene chloride-coated substrates. 3,645,824, 2-29-72, Cl. 156-322.
Patton, Robert W. Rail transposing machine. 3,635,164, 1-18-72, Cl. 104-1.
Patton, Tad L.: *See—*
Starnes, William H., Jr.; and Patton, Tad L., 3,635,886.
Patton, Tad L., to Esso Research and Engineering Company. Cyanide ion as catalyst for heterocyclic polymers. 3,635,905, 1-18-72, Cl. 260-77.5.
Patton, Tad L., to Esso Research and Engineering Company. Synthesis of dicyanoformamides having an aromatic organic moiety. 3,637,843, 1-25-72, Cl. 260-545.
Patton, Tad L.; and Haynes, Raymond R., to Esso Research and Engineering Company. Dyeable polyolefins containing acid salts of polyvinylpyridines. 3,639,528, 2-1-72, Cl. 260-895.
Patton, Tad L., to Esso Research and Engineering Company. Poly(1,3-imidazolidine-2,4,5-triones). 3,661,859, 5-9-72, Cl. 260-77.5.
Patton, Tao L., to Esso Research and Engineering Company. Synthesis of cyanoformamidyl isocyanates and polyiminoimidazolidinediones therefrom. 3,684,773, 8-15-72, Cl. 260-77.5ch.
Patton, Terence R.; and Ringel, Melvin B., to United States of America, Navy. Frequency averaging controlled false alarm rate (CFAR) circuit. 3,701,149, 10-24-72, Cl. 343-5.0dp.
Patton, Thomas H.: *See—*
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Patton, Willard Thomas: *See—*
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Pattore, Vittorio: *See—*
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Pattullo, John Patrick: *See—*
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Patusa Aktiengesellschaft: *See—*
Seaton, William W., 3,703,248.
Patzelt, Harold I.; Connelly, Lawrence J.; Ballweber, Edward G.; Korzenski, David B.; and Slepicka, Kenneth L., to Nalco Chemical Company. Process for preparing acrylamide polymers. 3,663,518, 5-16-72, Cl. 260-80.3.
Patzelt, Heinz-Wolfgang: *See—*
Moller, Friedrich; Hauptmann, Gunter; and Patzelt, Heinz-Wolfgang, 3,694,510.
Patzke, Robert C.: *See—*
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Patzlaff, Albert W., to Blueberry Equipment, Inc. Raspberry harvester. 3,703,072, 11-21-72, Cl. 56-330.000.
Paucha, Gene, to Forr Company. Filter apparatus with removable filter elements. 3,693,328, 9-26-72, Cl. 55-436.000.
Pauels, Heinrich, to Schloemann Aktiengesellschaft. Apparatus for the continuous casting of metal strip. 3,659,643, 5-2-72, Cl. 164-260.
Paugh, Edward C.: *See—*
Upstone, Harlan R.; and Paugh, Edward C., 3,678,441.
Paul, Albert Peter, to American Cyanamid Company. Dyeing keratinaceous material with N-carbamoylethyl amines. 3,658,454, 4-25-72, Cl. 8-10.
Paul, Ben E.; and Olmstead, Ival L., to Aerojet-General Corporation. Solid grain caseless ammunition propellant. 3,688,697, 9-5-72, Cl. 102-38.000.
Paul, Bernt, to Siemens Aktiengesellschaft. Semiconductor type radiation detector. 3,675,018, 7-4-72, Cl. 250-83.30r.
Paul, Claude; and Cheron, Henri, to Azote et Produits Chimiques S.A. Magnesia supports for catalysts in hydrocarbon reforming. 3,695,856, 10-3-72, Cl. 48-214.000.
Paul Claude, Marie Touvier-Berthet: *See—*
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Paul, Donald E.: *See—*
Hebert, Richard A.; Moynihan, Daniel J.; Paul, Donald E.; Petrovic, Louis J.; Rubel, Peter A.; and Seferian, Ralph, 3,663,283.
Paul, Donald G., to Chemalytics Corporation. Gas analysis apparatus and method using paralle gas density detectors and different carrier gases to determine molecular weight. 3,693,403, 9-26-72, Cl. 73-30.000.
Paul, Fred: *See—*
Morris, Thomas B.; Paul, Fred; and Powell, Barney R., 3,634,648.
Morris, Thomas B.; Paul, Fred; and Powell, Barney R., 3,665,146.
Paul, Guy, to Societe des Transports Petroliers par Pipe-Line (Societe Anonyme). Densimeter for pipeline-transported liquids. 3,661,015, 5-9-72, Cl. 73-437.
Paul, Ian Andrew, to Honeywell Inc. Control circuits for use in automatic control systems. 3,675,050, 7-4-72, Cl. 307-304.000.
Paul, Igor L., to Ames, B. C., Company. Dial indicators. 3,699,473, 10-17-72, Cl. 55-17.0rr.
Paul, Jurgen: *See—*
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Paul, Marius Angelo: *See—*
Sfinteanu, Dragos; and Paul, Marius Angelo, 3,633,358.
Paul, Maynard C.; Sauter, Gerald F.; and Oberg, Paul E., to Sperry Rand Corporation. High density magnetic recording scheme. 3,683,407, 8-8-72, Cl. 346-74.00m.
Paul, Roy D.; and Blocker, Edwin W., to United Aircraft Corporation. Coating for condenser surfaces. 3,658,581, 4-25-72, Cl. 117-169.
Paul, Thomas Campbell, to Dowty Meco Limited. Chain conveyors. 3,680,682, 8-1-72, Cl. 198-204.000.
Paul, William T., to North American Rockwell Corporation. Power transmitting chain with floating bushing and method of manufacture. 3,643,517, 2-22-72, Cl. 74-254.
Paul, William T.; and Tracy, Wayne R., to North American Rockwell Corporation. Roller chain disconnector apparatus. 3,698,181, 10-17-72, Cl. 59-11.000.
Paulauskas, Clyde L.: *See—*
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Paule, Kurt: *See—*
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Pauley, Eugene E. Building panel and assembly. 3,685,228, 8-22-72, Cl. 52-506.000.
Pauley, Reginald W., to Ingersoll-Rand Company. Wrenching system and method. 3,643,501, 2-22-72, Cl. 73-133.
Pauley, Reginald W., to Ingersoll-Rand Company. Signal inhibitor for impact wrench. 3,643,749, 2-22-72, Cl. 173-12.
Paulfus, Bernard, to Noma-World Wide Inc. One-piece socket for decorative light. 3,660,801, 5-2-72, Cl. 339-97.
Pauli, Gunter: *See—*
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Pauli, Otto: *See—*
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Pauliukonis, Richard S. Elastomatic valve. 3,666,230, 5-30-72, Cl. 251-63.500.
Pauliukonis, Richard S. Metering valve. 3,672,396, 6-27-72, Cl. 137-512.000.
Pauliukonis, Richard S. Pneumatic/hydraulic pressure actuated positive displacement pump. 3,676,022, 7-11-72, Cl. 417-392.000.
Pauliukonis, Richard S. Quick exhaust valve. 3,680,582, 8-1-72, Cl. 137-102.
Pauliukonis, Richard S. Control valve. 3,696,835, 10-10-72, Cl. 137-625.600.
Pauliukonis, Richard S. Plastic actuating cylinder. 3,703,125, 11-21-72, Cl. 92-85.000.

Pauliukonis, Richard S. Simple control valves. 3,706,325, 12-19-72, Cl. 137c625.660.

Paull, Henry, Jr., to Central Paper Company. Filter apparatus and method. 3,672,507, 6-27-72, Cl. 210-77.000.

Paull, Kenneth D.: *See—*
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Paull, Melvin. Surveillance and alarm system. 3,648,268, 3-7-72, Cl. 340-276.

Paull, Peter L.; and Armistead, Fontaine C., to Texaco Development Corporation. Hydraulic lift for amphibious craft. 3,683,629, 8-15-72, Cl. 61-8.000.

Paull, Stephen, to Constellation Science and Technology Corporation, mesne. Utility meter remote automatic reading system. 3,656,112, 4-11-72, Cl. 340-151.

Paulonis, Daniel F.: *See—*
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Paulonis, Daniel F.; Duvall, David Scott; and Owczarski, William A., to United Aircraft Corporation. Diffusion bonding utilizing transient liquid phase. 3,678,570, 7-25-72, Cl. 29-498.000.

Pauloski, Chester E., to Dow Chemical Company, The. Process for making substituted crotonates. 3,639,445, 2-1-72, Cl. 260-473.

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Paulsen, Duane Owen: *See—*
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Paulsen, Duane Owen, to Du Pont de Nemours, E. I., and Company. Oil and water repellent cosmetic powder. 3,632,744, 1-4-72, Cl. 424-69.

Paulsen, Glen E.: *See—*
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Paulsen, Glen E., to T. O. Plastics. Depth finding device. 3,646,684, 3-7-72, Cl. 33-126.5.

Paulsen, Jens C. Wrist band with high resistance to expansion and relatively low contractive force. 3,693,375, 9-26-72, Cl. 63-5.00r.

Paulsen, Paul L.: *See—*
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Paulsen, Robert M.: *See—*
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Paulson, Allen E. Cycle counter for jet engines. 3,670,565, 6-20-72, Cl. 73-117.300.

Paulson, Carl G., to Hayes, C. I., Inc. Apparatus for heat treating metallic articles. 3,704,871, 12-5-72, Cl. 263-2.00r.

Paulson, Donald C., to New Britain Machine Company, The. Plastics injection-molding machine utilizing premixed billets. 3,698,845, 10-17-72, Cl. 425-145.000.

Paulson, Elmir E.: *See—*
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Paulson, Erland G.; and Mandala, Charles G., to Eldon Industries, Inc. Buoyancy type weighing scale. 3,701,391, 10-31-72, Cl. 177-207.000.

Paulson, Harold E. Printing press feeder. 3,655,181, 4-11-72, Cl. 271-29.

Paulson, Harold E. Printing press feeder. 3,685,821, 8-22-72, Cl. 271-29.000.

Paulson, Loree A. D.; Cahoon, John A.; and Frogameni, James, to Worthington Compressor and Engine International; division of Worthington Corporation. Rotatable boom turret assembly. 3,648,956, 3-14-72, Cl. 248-2.

Paulson, Theodore C. Mold for a hollow block. 3,669,402, 6-13-72, Cl. 249-150.000.

Paulson, Thomas M.: *See—*
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Paulssen, Walter A.; and Johnston, Robert R., to Dresser Industries, Inc. Safety brake. 3,706,361, 12-19-72, Cl. 188-189.000.

Paulstra: *See—*
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Paulus, Ray A.: *See—*
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Paulus, Rudolf; and Huber, Hans-Peter, to Agfa-Gevaert Aktiengesellschaft. Arrangement for determining frame lengths on film strips. 3,699,349, 10-17-72, Cl. 250-219.0fr.

Paulus, Wilfried: *See—*
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Paulve, Marcel Luc Amedee. Electromechanical apparatus for checking and signalling the position of a railway-track switch or the like. 3,679,895, 7-25-72, Cl. 246-253.000.

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Pauly, Donald E., to Telemation, Inc. Shifting phase in a television camera. 3,670,181, 6-13-72, Cl. 307-262.000.

Pauly, Donald E., to Telemation, Inc. High frequency multiple phase signal generator. 3,671,872, 6-20-72, Cl. 328-55.000.

Pauly, Ronald R.: *See—*
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Pauly, Ronald R., to Tonka Corporation. Axle mounting for toy vehicles. 3,668,806, 6-13-72, Cl. 46-201.000.

Pauly, Walter W., to Stanton Magnetics, Inc. Speaker protective circuit. 3,686,511, 8-22-72, Cl. 307-202.000.

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Paumier, Inc.: *See—*
Clendenin, William H.; and Paumier, Thomas B., 3,653,301.

Paumier, Thomas B.: *See—*
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Paunovic, Milan, to Photocircuits; division of Kollmorgen Corporation. Electroless plating baths with improved deposition rates. 3,645,749, 2-29-72, Cl. 106-1.

Pause, Helmut: *See—*
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Pause, Kurt, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Liquid-solid separator. 3,648,926, 3-14-72, Cl. 233-20.

Pause, Kurt. Centrifuge drum with discharge openings. 3,662,947, 5-16-72, Cl. 233-47.

Pause, Kurt, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Spindle for centrifuges. 3,664,151, 5-23-72, Cl. 64-1.000.

Paustian, John E.; and De Thomas, Waldo, to Thiokol Chemical Corporation. Process for preparing hydrazinium diperchlorate. 3,632,318, 1-4-72, Cl. 23-35.

Paustian, John E.; and Fein, Marvin M., to Thiokol Chemical Corporation. High-energy propellant containing coated hydrazinium azide. 3,667,524, 6-6-72, Cl. 149-8.000.

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Pautz, Donald W.: *See—*
Koons, Harold O.; Pautz, Donald W.; and Gardner, Willis W., 3,653,350.

Pauwels, William A.; and Nystrom, Robert G., to Loctite Corporation. Dispensing of hardenable liquids. 3,638,831, 2-1-72, Cl. 222-1.

Pauza, William Vito: *See—*
Kunkle, John Philip; and Pauza, William Vito, 3,639,893.

Pauza, William Vito, to AMP Incorporated. Staking electrical contact and method of making an electrical connector. 3,634,601, 1-11-72, Cl. 174-68.5.

Pauza, William Vito, to AMP Incorporated. Power frame for integrated circuit. 3,651,448, 3-21-72, Cl. 339-112.

Pavelle Corporation, The: *See—*
Aston, Keith, 3,640,618.
Long, John Geoffrey, 3,647,296.

Pavelle, James Clinton. Multiple design viewer. 3,680,227, 8-1-72, Cl. 35-27.000.

Pavernick, Stanford. Feeding mat. 3,637,454, 1-25-72, Cl. 161-44.

Pavia, Edgar H. Manufacture of sodium hypochlorite. 3,702,234, 11-7-72, Cl. 23-86.000.

Pavia, Robert J. Ducting. 3,688,803, 9-5-72, Cl. 138-173.000.

Paviak, Stanley C.: *See—*
Franke, Norman W.; Paviak, Stanley C.; and Porter, Warren K., Jr., 3,706,676.

Paviak, Stanley C., to Gulf Research & Development Company. Detergent compositions. 3,676,373, 7-11-72, Cl. 252-531.000.

Pavilon, Stanley J., to Mc Kee, Arthur G., & Company. Method of repairing tube structures. 3,638,684, 2-1-72, Cl. 138-97.

Pavleszek, John; and Zugcic, Joseph Paul, to American Can Company. Necking-in die pilot. 3,680,350, 8-1-72, Cl. 72-358.000.

Pavlik, Frank J., to Minnesota Mining and Manufacturing Company. Esters of perfluoro-tertiaryalkyl alcohols and hydrocarbyl or halohydrocarbyl carboxylic acids. 3,668,233, 6-6-72, Cl. 260-471.00c.

Pavlik, Kamil: *See—*
Jindra, Karel; Pavlik, Kamil; Kas, Josef; Kocian, Zdenfk; Hanjs, Vaciav; and Tyls, Jaruslav, 3,681,907.

Pavlik, Norman M., to Westinghouse Electric Corporation. Nonreactive refractory separating coatings for electrical steels. 3,671,335, 6-20-72, Cl. 148-28.000.

Pavlin, Cyrille Francois: *See—*
Soviche, Gilles Andre Paul; Bues, Jean Pierre; Pavlin, Cyrille Francois; and Mace, Edouard Maurice Eugene Aime, 3,654,945.

Pavlou, James, to Mica Corporation, The. Printed circuit board fabrication by electroplating a surface through a porous membrane. 3,691,007, 9-12-72, Cl. 161-213.000.

Pavlov, Gely Georgievich: *See—*
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Pavlov, Leonid Viktorovich: *See—*
Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexandr; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikailovich; Shevisov, Anatoly Ivanovich; Grinsnpon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexandr Mikhaivich, 3,687,188.

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Kusovsky, Boris Isaakovich; Pavlov, Nikolai Ivanovich; Matiichenko, Anatoly Petrovich; Zakharov, Sergei Alexandrovich; and Birjukov, Dmitry Anatolievich, 3,704,222.
Pavlovic, Jack Dale: *See—*
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Pavon, Miguel Sancho: *See—*
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Paweck AG: *See—*
Bergner, Siegfried, 3,667,269.
Pawl, Walter S. Vehicle anti-skid and anti-spin signal and control device. 3,668,629, 6-6-72, Cl. 340-53.000.
Pawlak, Daniel E.: *See—*
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Pawletko, Joseph P.: *See—*
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Jakubowski, Marek; and Pawletko, Joseph P., 3,636,429.
Pawlicki, Heinrich R. Deformable fibreglass reinforced supporting element. 3,660,215, 5-2-72, Cl. 161-57.
Pawlina, Julian S., to Tecumseh Products Company. Spark arrester and muffler construction. 3,677,364, 7-18-72, Cl. 181-36.00r.
Pawloski, Chester E., to Dow Chemical Company, The. 4,7-Dihydro-2-styryl-1,3-dioxepins. 3,635,958, 1-18-72, Cl. 260-240.
Pawloski, Chester E., to Dow Chemical Company, The. Certain 1-(2-propynyl)-2(1H)-pyridones. 3,635,996, 1-18-72, Cl. 260-297.
Pawloski, Chester E., to Dow Chemical Company, The. 2-Propynyl ester of N-acetyl anthranilic acid. 3,636,078, 1-18-72, Cl. 260-471.
Pawloski, Chester E., to Dow Chemical Company, The. Substituted 1,3-dioxepins. 3,652,594, 3-28-72, Cl. 260-338.
Pawloski, Chester E.; and Stewart, Russell L., to Dow Chemical Company, The. Allene chlorination. 3,663,633, 5-16-72, Cl. 260-654.
Pawloski, Chester E.; and Stewart, Russell L., to Dow Chemical Company, The. Methylacetylene chlorination. 3,700,735, 10-24-72, Cl. 260-597.00r.
Pawloski, James A. Powered cutting tool and cutting head therefor. 3,654,700, 4-11-72, Cl. 30-247.
Pawsat, Carlton P., to Wald Manufacturing Company, Incorporated. Bicycle training wheel bracket. 3,642,305, 2-15-72, Cl. 280-293.
Pawsat, Carlton P.; and Humlong, Robert F., to Wald Manufacturing Company, Incorporated. Adjustable support for kickstand. 3,647,242, 3-7-72, Cl. 280-298.
Pawsat, Carlton P.; and Humlong, Robert F., to Wald Manufacturing Company, Incorporated. Reflector pedal for cycles. 3,659,478, 5-2-72, Cl. 74-594.4.
Pawsat, Carlton P.; and Humlong, Robert F., to Wald Manufacturing Company, Incorporated. Reflective pedal. 3,701,289, 10-31-72, Cl. 74-594.400.
Pawsat, Carlton P.; and Humlong, Robert F. Reflective pedal. 3,701,290, 10-31-72, Cl. 74-594.400.
Pawsat, Carlton P.; and Humlong, Robert F., to Wald Manufacturing Company, Incorporated. Handlebar with reflector-receptive recessed areas. 3,707,319, 12-26-72, Cl. 350-97.000.
Pawson, Beverly Ann; and Saucy, Gabriel, to Hoffmann-La Roche Inc. Juvabione and derivatives thereof. 3,641,156, 2-8-72, Cl. 260-586.
Paxhia, Emmanuel A.; and Willett, David A., to Sybron Corporation. Radiation moisture measuring system having thermoelectrically cooled detector. 3,703,639, 11-21-72, Cl. 250-83.30h.
Paxton, Douglas R.; and Talbott, George Robert, to Paxve, Inc. Burner. 3,690,807, 9-12-72, Cl. 431-1.000.
Paxton, Douglas Ray. Variable dwell cam advance mechanism. 3,687,010, 8-29-72, Cl. 91-262.000.
Paxton, William H.: *See—*
Ebert, Robert J.; and Paxton, William H., 3,692,254.
Paxve, Inc.: *See—*
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Paya Rico, Raimundo. Spring-operated driving mechanism for toy micro-vehicles. 3,647,025, 3-7-72, Cl. 185-39.
Payet, George Louis; and Forg, John H., to McGraw-Edison Company. Method and apparatus for producing a durable press in garments containing cellulose or cellulosic derivatives. 3,660,013, 5-2-72, Cl. 8-116.400.
Payk, Heinz: *See—*
Kipp, Adolf; and Payk, Heinz, 3,646,799.
Paymal, Jean, to Compagnie de Saint-Gobain. Method and apparatus for production of fibers from thermoplastic materials, particularly glass fibers. 3,634,055, 1-11-72, Cl. 65-6.
Paymal, Jean, to Compagnie de Saint-Gobain. Continuous production of composite panels, particularly for buildings. 3,671,355, 6-20-72, Cl. 156-324.000.
Payne, Arthur D.; and Reinheimer, Harry J., to International Business Machines Corporation. Error detecting and correcting system and method. 3,659,089, 4-25-72, Cl. 235-153.
Payne, Billy D.: *See—*
Watson, James W.; and Payne, Billy D., 3,702,777.
Payne, Burlyl R. Audible psychogolvanometer. 3,648,686, 3-14-72, Cl. 128-2.1.
Payne, Charles C.: *See—*
Oberhofer, Alfred W.; Anderson, Donald R.; and Payne, Charles C., 3,664,870.
Payne, Charles C., to Nalco Chemical Company. Silica sol compositions. 3,689,431, 9-5-72, Cl. 252-313.00s.
Payne, Clarence Oval, Sr. Sewer lift alarm system. 3,644,916, 2-22-72, Cl. 340-244.
Payne, Derek G., to Grafton, Walter, & Son Limited. Spools for business machines. 3,653,605, 4-4-72, Cl. 242-74.
Payne, Donald C.: *See—*
Brunett, Carl J.; and Payne, Donald C., 3,683,184.
Payne, Francis M., to Spra-Kleen Company, Inc., The. Humidifier unit for warm air heating systems. 3,689,037, 9-5-72, Cl. 261-105.000.
Payne, George B., to Shell Oil Company. Sulfur ylid production. 3,644,487, 2-22-72, Cl. 260-481.
Payne, Harold A. Structural connections. 3,669,479, 6-13-72, Cl. 287-189.36c.
Payne, Harold J. W., to Robertson, H. H., Company. Method of making coated panels. 3,649,324, 3-14-72, Cl. 117-9.
Payne, Harold R., to Borg-Warner Corporation. Defrosting arrangement and method for a refrigeration system. 3,677,025, 7-18-72, Cl. 62-81.000.
Payne, Herbert James: *See—*
Brown, Lewis Judson; Lippy, Joseph Edmund, Jr.; and Payne, Herbert James, 3,632,487.
Payne, Jimmie Sturgis, Jr., to Reichhold Chemicals, Inc. Process for improved curing of unsaturated polyester resin compositions and resulting product. 3,649,711, 3-14-72, Cl. 260-863.
Payne, Mackey M.; and Harper, John S., Jr. Conveyor apparatus. 3,707,218, 12-26-72, Cl. 198-109.000.
Payne, Nigel: *See—*
Nightingale, Douglas Daniel; and Payne, Nigel, 3,688,798.
Payne, Paul E.: *See—*
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Payne, Peter Charles John: *See—*
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Kilgour, John; Payne, Peter Charles John; Reid, John Stewart; and Everett, Eric George, 3,690,050.
Payne, Philip A.: *See—*
Hermle, Paul A.; and Payne, Philip A., 3,654,034.
Payne, Robert A., to Stewart-Warner Corporation. Display system with solid matrix display board. 3,638,215, 1-25-72, Cl. 340-324.
Payne, Robert A.; and Van der Molen, John F., to Stewart-Warner Corporation. Zero offset numerical servo machine control system. 3,665,280, 5-23-72, Cl. 318-572.
Payne, Robert L., to Bourns, Inc. Variable resistor pin terminal and method. 3,659,245, 4-25-72, Cl. 338-312.
Payne, Robert M.: *See—*
Andrews, Russell W.; Kolesar, Paul M.; Payne, Robert M.; and Posner, Howard G., 3,651,511.
Payne, Roy David, to International Standard Electric Corporation. Pulse analyzer. 3,678,252, 7-18-72, Cl. 235-92.0ev.
Payne, Stanley D.; Hill, Donald E.; and Walker, Robert G., to Industra Products, Inc. Wire coil stripper and inserting device. 3,685,118, 8-22-72, Cl. 29-205.00r.
Payne, Sumas. Vehicle theft signalling device. 3,703,703, 11-21-72, Cl. 340-63.000.
Payne, Vivian H., to Cameron Iron Works, Inc., mesne. Pressure operated-positive displacement shuttle valve. 3,642,020, 2-15-72, Cl. 137-112.
Payne, Vivian Hershel, to Offshore Systems Inc. Three position valve. 3,683,966, 8-15-72, Cl. 137-625.480.
Payne, William B., to Scripto, Inc. Method of producing a heat treated beryllium copper tip for a ball point writing instrument. 3,643,319, 2-22-72, Cl. 29-441.
Payne, Winslow C.; and Trottier, Gerard M., to Warner & Swasey Company, The, mesne. Co-ordinated periodic lubrication system for machine tools. 3,678,631, 7-25-72, Cl. 51-165.770.
Paynter, John; and Morgan, John R., to General Electric Company. Electrochemical cell with manganese oxide catalyst and method of generating electrical energy. 3,649,361, 3-14-72, Cl. 136-86.
Paynter, John; and Morgan, John R., to General Electric Company. Method of forming a catalyst, catalyst coated powder and electrode. 3,649,365, 3-14-72, Cl. 136-120.
Paynter, William D.; and Kielsmeier, Elwood W., to Mayer, Oscar, & Co., Inc. Preparation of packaged sliced dry sausage. 3,634,102, 1-11-72, Cl. 99-174.
Payrau, Paul Bertrand: *See—*
Moczar, Madeleine Csanadi; Moczar, Elemer; and Payrau, Paul Bertrand, 3,676,298.
Payraudeau, Henri Andre Charles: *See—*
Payraudeau, Hubert Michel Henri; and Payraudeau, Henri Andre Charles, 3,683,573.
Payraudeau, Hubert Michel Henri; and Payraudeau, Henri Andre Charles, to Technab, Les Brouzils (Vendee). Process for covering buildings, particularly dwellings, and the dwellings obtained by ap-

plication of this or a similar process. 3,683,573, 8-15-72, Cl.52-235.000.
Payrhammer, Bernd: *See—*
Frisch, Hans Otto; and Payrhammer, Bernd, 3,692,322.
Payrhammer, Bernd, to Marker, Hannes. Toe iron for safety ski bindings. 3,698,732, 10-17-72, Cl. 280-11.35t.
Payrissat, Maurice: *See—*
Wurm, Joseph-Gerard; and Payrissat, Maurice, 3,666,425.
Payson, Buford L., to Roberts Consolidated Industries, Inc. Carpet stretcher with ratchet handle. 3,692,278, 9-19-72, Cl. 254-62.000.
Payson, Buford L., 25% to Strauss, Robert E. Carpet stretcher improvements. 3,693,936, 9-26-72, Cl. 254-62.000.
Payton, Charles E.; and Patterson, Waldo C., to Continental Oil Company. Automatic sample changer for a goniometer with means to accomodate samples of different thicknesses. 3,654,460, 4-4-72, Cl. 250-51.5.
Payton, Joy T.: *See—*
Harnsberger, Bobby G.; and Payton, Joy T., 3,654,990.
Harnsberger, Bobby G.; and Payton, Joy T., 3,654,991.
Harnsberger, Bobby G.; and Payton, Joy T., 3,654,992.
Paz, Pascual S. Automatic occupied trip counting apparatus. 3,674,986, 7-4-72, Cl. 235-30.00a.
Pazder, George J., Jr.: *See—*
Hessler, Henry M., 3,677,313.
Pazhia, Vincent B.; and Bossler, Franklin B., to Textron, Inc. Quiet jet discharge nozzle. 3,695,388, 10-3-72, Cl. 181-33.00f.
Pbuchi, Kazuo; and Honjo, Satoru. Process for the production of a transparent original. 3,653,938, 4-4-72, Cl. 117-15.
Pchelkina, Valentina Mikhailovna: *See—*
Shepelyakovsky, Konstantin Zakharovich; Ushakov, Boris Konstantinovich; Devyatkin, Vasily Petrovich; Devyatkov, Vladimir Fedorovich; Shakhov, Vasily Ivanovich; Kachkanov, Nikolai Nikolaevich; Gazarov, Leon Alexandrovich; Pchelkina, Valentina Mikhailovna; Drbunov, Mikhail Alexandrovich; and Vologdin, Vladislav Valentinovich, 3,682,519.
PCR, Inc., mesne: *See—*
Schuman, Pau D.; Stump, Eugene C., Jr.; and Rachow, Stephen, 3,654,273.
Peabe, Peter, to Autoflug GmbH. Central strap lock, especially for body harness equipment for parachute jumpers. 3,703,749, 11-28-72, Cl. 24-205.170.
Peabody Galion Corporation: *See—*
Herpich, William A.; Park, Glenn S.; and Palmer, George W., 3,661,281.
Herpich, William A.; Cooley, Charles R.; and Shoup, Loren A., 3,662,910.
Peacher, Teddy J., to United States of America, Army. Automatic beam scanning apparatus for evaluating optical beacons. 3,706,498, 12-19-72, Cl. 356-121.000.
Peacock, Alton E.: *See—*
Self, Joseph A.; Sovereigh, Gerald W.; and Peacock, Alton E., 3,663,352.
Peacock Brothers Limited: *See—*
Schneller, Stephen G., 3,642,152.
Peacock, Dixon W.; and Needham, Riley B., to Phillips Petroleum Company. Aiding auto-ignition in tar sand formation. 3,680,634, 8-1-72, Cl. 166-261.000.
Peacock, Frederick Charles: *See—*
Freeman, Peter Frank Hilary; Markey, Roger Franklin Joseph; Peacock, Frederick Charles; and Sharpe, Stuart Peter, 3,657,247.
Ghosh, Ranajit; Bishop, Nigel Douglas; and Peacock, Frederick Charles, 3,661,930.
Peacock, Jack, to McCorquodale & Company Limited. Printing of cheques. 3,692,298, 9-19-72, Cl. 270-12.000.
Peacock, Peter J.: *See—*
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Scarnato, Thomas J.; and Peacock, Peter J., 3,633,345.
Scarnato, Thomas J.; Adams, James R.; Keller, Arthur H.; and Peacock, Peter J., 3,637,237.
Scarnato, Thomas J.; Meyer, Martin H.; and Peacock, Peter J., 3,641,750.
Scarnato, Thomas J.; Tufts, Guy O.; Peacock, Peter J.; and Cicci, George B., 3,672,138.
Scarnato, Thomas J.; Peacock, Peter J.; Cicci, George B.; Krage, Paul W.; and Kowalik, John J., 3,683,602.
Scarnato, Thomas J.; Peacock, Peter J.; and Kowalik, John J., 3,699,758.
Tufts, Guy O.; Scarnato, Thomas J.; and Peacock, Peter J., 3,670,483.
Peacock, Peter J.; and Scarnato, Thomas J., to International Harvester Company. Roll opening device. 3,672,135, 6-27-72, Cl. 56-14.200.
Peacock, Peter J.; and Gordon, Paul C., to International Harvester Company. Mower conditioner. 3,672,136, 6-27-72, Cl. 56-14.4.
Peacock, Ralph W. Method of hand sewing moccasins. 3,676,883, 7-18-72, Cl. 12-142.0mc.
Peak, Charles Benjamin, to Deere & Company. Quick-adjustable lower stop for feeder house drum. 3,699,753, 10-24-72, Cl. 56-14.500.
Peak, Leonard R. Tractor pull load measuring device. 3,667,291, 6-6-72, Cl. 73-141.00r.
Peake, Thaddeus A.: *See—*
De Core, Fred; Peake, Thaddeus A.; and Marshall, Ted R., 3,668,768.
Peaker, Charles R., to Uniroyal, Inc. Stabilized latex coating composition containing an alkyl sulfide terminated oligomer. 3,632,466, 1-4-72, Cl. 161-67.
Peaker, Charles R., to Uniroyal, Inc. Coating compositions and coated articles. 3,699,069, 10-17-72, Cl. 260-29.7sq.
Peale, Robert E. Adjustable axis work support. 3,700,228, 10-24-72, Cl. 269-61.000.
Peanut Research & Testing Laboratories, Inc.: *See—*
Baxley, James R., 3,645,752.
Pear, Charles B., Jr.: *See—*
Murray, Joseph John; and Pear, Charles B., Jr., 3,665,436.
Pear, Charles B., Jr., to Potter Instrument Company, Inc. Method and system for high density recording of information on premagnetized magnetic tape. 3,665,485, 5-23-72, Cl. 346-74.00m.
Pear, Charles B., Jr.; and Ross, Joseph A., to Potter Instrument Company, Inc. Hammer firing system for a high speed printer. 3,678,847, 7-25-72, Cl. 101-93.00c.
Pearce, Brian: *See—*
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Pearce, Christopher A.: *See—*
Fulton, Michael; Jones, John Darrell; and Pearce, Christopher A., 3,676,420.
Pearce, Douglas Henry, to Access Equipment Limited. Scaffolding. 3,697,032, 10-10-72, Cl. 248-188.400.
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Pearce, Geoffrey Downing: *See—*
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Pearce, Godfrey R.; and Breeden, William J., to Mallory, P. R., & Co., Inc. Capacitor having a sealing means engaging the terminals. 3,686,536, 8-22-72, Cl. 317-230.000.
Pearce, James Gordon, to Stromberg-Carlson Corporation. Reverting call arrangement. 3,673,337, 6-27-72, Cl. 179-17.00d.
Pearce, Joseph L., Jr., to Otis Engineering Corporation. Well tools. 3,646,996, 3-7-72, Cl. 166-212.
Pearce, Larry N., to Deering Milliken Research Corporation. Yarn bulking methods. 3,702,492, 11-14-72, Cl. 28-72.0hr.
Pearce, Lucia C.: *See—*
Bosley, Denis V.; and Pearce, Lucia C., 3,646,592.
Pearce, Richard A., to Fasco Industries, Inc. Electric artificial fireplace. 3,636,307, 1-18-72, Cl. 219-370.
Pearce, Ronald A., to Coors Container Company, mesne. Testing device for testing edges of cylinders for defects. 3,672,208, 6-27-72, Cl. 73-49.200.
Pearce, Shairyl I.: *See—*
Audiffred, Sidney J.; Johnson, Lowell E.; and Pearce, Shairyl I., 3,673,799.
Pearce, Woodrow W. Illuminated magic wand. 3,707,055, 12-26-72, Cl. 46-228.000.
Pearl, Curt Charles; and Poland, Sidney, to APL Corporation. Method and apparatus for manufacturing shopping bag. 3,680,445, 8-1-72, Cl. 93-35.00r.
Pearl, David L.; Waller, John G.; and Head, Beverly P., Jr., to Grace, W. R., & Co. Egg carton. 3,664,574, 5-23-72, Cl. 229-44.00r.
Pearl, David L.; Harris, George E.; Waller, John G.; and Head, Beverly P., Jr., to Grace, W. R., & Co. Carton labeling method. 3,690,986, 9-12-72, Cl. 156-257.000.
Pearl, David R.: *See—*
Gerber, Heinz Joseph; and Pearl, David R., 3,672,661.
Pearl, David R., to Gerber Garment Technology. Cutter blade and guide construction for a sheet material cutter with a reciprocating cantilevered blade. 3,682,034, 8-8-72, Cl. 83-635.000.
Pearl, David R., to Gerber Garment Technology. Apparatus for cutting sheet material. 3,693,489, 9-26-72, Cl. 83-374.000.
Pearl, David Raymond: *See—*
Gerber, Heinz Joseph; and Pearl, David Raymond, 3,677,123.
Pearl, Wesley L., to General Electric Company. Corrosion inhibition. 3,663,725, 5-16-72, Cl. 176-38.
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Pearlman, Robert I.: *See—*
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Pearlstein, Fred; and D'Ambrosio, Margaret R., to United States of America, Army. Heat resistant chromate conversion coatings. 3,687,740, 8-29-72, Cl. 148-6.200.
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Pearne, Frank S.; and Pearne, Florentin J., to Aircraft Mechanics, Inc. Brick handling and stacking machine. 3,656,634, 4-18-72, Cl. 214-6.

Pearo, Joseph J., to Diapulse Corporation. Ultra-short wave athermapeutic apparatus. 3,670,737, 6-20-72, Cl. 128-422.000.
Pears, Edward Alexander. Press tools and dies. 3,683,722, 8-15-72, Cl. 76-107.00r.
Pearsall Corporation: *See—*
Voight, Richard W.; and Hoffenberg, David S., 3,652,232.
Pearsall, Ralph E.: *See—*
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Pearsall, Ralph E., to USM Corporation. Tables for stacking flexible work. 3,659,727, 5-2-72, Cl. 214-6.
Pearson, Alan: *See—*
Mac Zura, George; and Pearson, Alan, 3,655,339.
Pearson, Alan; and Marhanka, John E., to Aluminum Company of America. Producing sintered alumina fibers from an alumina slip of very high solids content. 3,705,223, 12-5-72, Cl. 264-56.000.
Pearson, Alma: *See—*
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Pearson, Anthony: *See—*
Pearson, William Michael; and Pearson, Anthony, 3,674,593.
Pearson, Arthur J.: *See—*
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Pearson, Ben, Manufacturing Company: *See—*
Bandemer, Martin E., 3,651,624.
Pearson, Charles J.: *See—*
Chung, Daniel A.; and Pearson, Charles J., 3,677,869.
Pearson, Charles J.; Robinson, Keith D.; and Sassaman, William O., to Goodyear Tire & Rubber Company, The. Bumper structure having a light fixture associated therewith. 3,639,748, 2-1-72, Cl. 240-7.1.
Pearson, Clyde C., Jr. Building structure with elevators. 3,659,387, 5-2-72, Cl. 52-30.
Pearson, Dale S.: *See—*
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Pearson, David L.; and Fehringer, Bernard G., to Shell Oil Company. Process for the production of dimethyl (1-methyl-2-(methylcarbamoyl) vinyl phosphate. 3,632,694, 1-4-72, Cl. 260-969.
Pearson, David P.: *See—*
Cobb, Raymond L.; and Pearson, David P., 3,658,667.
Pearson, Derek Gordon, to Associated Lead Manufacturers Limited. Dust-free lead stabilizer for synthetic resins. 3,668,144, 6-6-72, Cl. 252-400.000.
Pearson, Durk J., to TRW Inc. Laser Q-switching monitoring method and apparatus. 3,678,411, 7-18-72, Cl. 331-94.500.
Pearson, Eugene S.: *See—*
Judge, Robert L.; and Pearson, Eugene S., 3,676,832.
Pearson, George H., to Slumberland Group Limited. Spring interiors for mattresses, seats and the like. 3,685,062, 8-22-72, Cl. 5-269.000.
Pearson, Harold E., to Gillette Company, The. Spring loaded hinge. 3,676,902, 7-18-72, Cl. 24-252.000.
Pearson, Harry C., to Portland Iron Works. Thin kerf saw machinery. 3,703,915, 11-28-72, Cl. 83-824.000.
Pearson, Herbert Irvin. Hide-away trailer hitch. 3,640,550, 2-8-72, Cl. 280-491.
Pearson, Howard: *See—*
Vassil, Theo N.; and Pearson, Howard, 3,634,839.
Pearson, John B.: *See—*
Keinanen, Henry J.; and Pearson, John B., 3,688,535.
Pearson, John R.; and Johnson, Glenn J., to Mellquist Mfg. Co., Inc. Actuator for bucky diaphragms. 3,660,660, 5-2-72, Cl. 250-62.
Pearson, Johnnie Prine: *See—*
McGinley, William L.; and Pearson, Johnnie Prine, 3,693,452.
Pearson, Kenneth William: *See—*
Dodman, David; Pearson, Kenneth William; and Woolley, John Mathers, 3,700,605.
Pearson, Lee E.; and Clark, Jeri O., to Owens-Corning Fiberglas Corporation. Retaining wall for fluids and method for production. 3,661,294, 5-9-72, Cl. 220-83.
Pearson, Lee E., to Owens-Corning Fiberglas Corporation. High strength strap and method of making it. 3,668,740, 6-13-72, Cl. 24-16.0pb.
Pearson, Lee E., to Owens-Corning Fiberglas Corporation. Glass fiber container and method of construction. 3,673,028, 6-27-72, Cl. 156-172.000.
Pearson, Lee E., to Owens-Corning Fiberglas Corporation. Underground storage tank for liquids. 3,680,727, 8-1-72, Cl. 220-3.000.
Pearson, Lee E.; and Clark, Jeri O., to Owens-Corning Fiberglas Corporation. Method of forming a fluid retaining wall. 3,700,512, 10-24-72, Cl. 156-62.400.
Pearson, Melvin A.: *See—*
Schlemmer, Alfred H.; and Pearson, Melvin A., 3,633,333.
Pearson, Paul O.: *See—*
Epina, August P.; and Pearson, Paul O., 3,703,997.
Herger, Zoltan L.; and Pearson, Paul O., 3,645,464.
Pearson, R. A., Company: *See—*
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Pearson, Reinhold A., 3,700,090.
Pearson, Raymond H., to Whitehall Electronics Corporation. Pressure sensitive hydrophone. 3,660,809, 5-2-72, Cl. 340-8.00s.
Pearson, Reinhold A., to Pearson, R. A., Company. Method of placing partitions between grouped articles. 3,680,278, 8-1-72, Cl. 53-26.000.
Pearson, Reinhold A.; deceased (by Pearson, Alma; executrix), to Pearson, R. A., Company. Conveyor and article handling apparatus. 3,700,090, 10-24-72, Cl. 198-34.000.
Pearson, Ronald K. Stacked sheet filter assembly. 3,648,843, 3-14-72, Cl. 210-443.
Pearson, Samuel J.: *See—*
Freeman, Donald J.; Fulkerson, Ambrose A.; Grall , Kenneth J.; and Pearson, Samuel J., 3,695,949.
Pearson, Samuel Reader, to Texas Instruments, Incorporated. Resettable timing circuit. 3,673,439, 6-27-72, Cl. 307-293.000.
Pearson, Samuel Reader, to Texas Instruments, Incorporated. Automatic data retrieval and display system. 3,704,451, 11-28-72, Cl. 340-172.500.
Pearson, Walter C.; Quinn, Edward R.; and Thompson, Dorman N., to Minnesota Mining and Manufacturing Company. Prefabricated bow forms. 3,637,455, 1-25-72, Cl. 161-49.
Pearson, William Michael; and Pearson, Anthony, to Bondina Limited. Method of making a protective laminate having a interposed powdered layer. 3,674,593, 7-4-72, Cl. 156-276.000.
Pearson, William S., to Cypro Incorporated. Apparatus for molding hollow plastic articles. 3,632,249, 1-4-72, Cl. 18-5.
Pearson, William S., to Cypro Incorporated. Comminuting apparatus. 3,700,177, 10-24-72, Cl. 241-36.000.
Pease, Charles C.: *See—*
Ritter, Ralph Kenneth; Pease, Charles C.; and Fay, Elliott J., 3,641,305.
Pease, Donald L.: *See—*
Baller, Ernst O.; Crandell, Melvin G.; Pease, Donald L.; and Witinski, Francis D., 3,674,363.
Pease, James F. Electrical heating element and fitting assembly. 3,657,519, 4-18-72, Cl. 219-536.
Pease, Robert A., to Teledyne, Inc. Current compensator circuit. 3,668,541, 6-6-72, Cl. 330-23.000.
Peasley, Curtiss M. Combined brush depth regulator and scraper. 3,641,615, 2-15-72, Cl. 15-257.05.
Peat, Robert W., to Butler Manufacturing Company. Mobile feed mixer and bunk loader. 3,706,442, 12-19-72, Cl. 259-41.000.
Peate, Norman T. Bicycle fork extension. 3,643,974, 2-22-72, Cl. 280-278.
Peay, Robert L.: *See—*
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Pebenito, Amabel A.: *See—*
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Pebler, Alfred H.: *See—*
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PEBRA GmbH Paul Braun: *See—*
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Lipinski, Reinhard, 3,662,149.
Peccerill, Donald: *See—*
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Pecchio, Rafael. Anti-fouling sinker assembly for fishing lines. 3,683,542, 8-15-72, Cl. 43-44.970.
Pecci, Angelo A. Electromagnetic motor with plural reciprocating members. 3,676,719, 7-11-72, Cl. 310-24.000.
Pecci, Giancarlo: *See—*
Girotti, Pierleona; Floris, Telemaco; and Pecci, Giancarlo, 3,642,612.
Peccoud, Michel: *See—*
Bost, Jose; Hollard, Daniel; Peccoud, Michel; and Suscillon, Michel, 3,644,738.
Pech, David J., to Manitowoc Engineering Company. Boom sheave assembly. 3,680,840, 8-1-72, Cl. 254-192.000.
Pech, Hans Peter, to Schloemann Aktiengesellschaft. Reel for rod or wire. 3,690,631, 9-12-72, Cl. 266-6.00r.
Peche, Gerhard: *See—*
Bahr, Alex; and Peche, Gerhard, 3,676,743.
Bahr, Alex; and Peche, Gerhard, 3,691,428.
Peche, Gerhard, to Siemens Aktiengesellschaft. Overvoltage arrester. 3,649,874, 3-14-72, Cl. 317-62.
Peche, Gerhard; and Seiffarth, Werner, to Siemens Aktiengesellschaft. Gas discharge over voltage arrester filled with a noble gas. 3,651,380, 3-21-72, Cl. 317-62.
Pechenick, William; and Gelblum, Gideon P., to United States of America, Interior, mesne. Formation and separation of barium hydrosulfide and barium hydroxide for use in chemical recovery processes. 3,632,309, 1-4-72, Cl. 23-134.
Pecherer, Benjamin: *See—*
Batcho, Andrew David; Berger, Julius; Furlenmeier, Andre; Keller, Oscar; Pecherer, Benjamin; Schocher, Arno Johannes; Spiegelberg, Hans; and Vaterlaus, Bruno Peter, 3,706,729.
Brossi, Arnold; and Pecherer, Benjamin, 3,654,343.
Pechin, William H.; Bradley, Ronnie A.; and Sease, John D., to United States of America, Atomic Energy Commission. Nuclear

fuel having minimum-gas-release properties. 3,689,428, 9-5-72, Cl. 252-301.10r.
Pechiney Compagnie de Produits Chimiques et Electrometallurgiques: *See*—
Chambran, Jacques, 3,633,652.
Chretien, Roland; and Richaud, Henri, 3,658,665.
Pechiney Ugine Kuhlmann: *See*—
Kazeef, Michel G., 3,682,235.
Pechiney-Progil: *See*—
Aronica, Claude S.; and Moulin, Louis, 3,671,632.
Demosay, Daniel; Pillon, Daniel; and Ducret, Jacques, 3,669,975.
Demozay, Daniel; Caffiero, Rodolphe; and Pillon, Daniel, 3,639,619.
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Pechiney-Saint Gobain: *See*—
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Pechthold, Heinz; and Gold, Gerhard, to PMD Entwicklungswerk fur Kunststoffmaschinen GmbH & Co. Apparatus for closing a filled synthetic material container. 3,690,803, 9-12-72, Cl. 425-326.000.
Pechthold, Heinz, to Etablissement Bonatex. Apparatus for the automatic continuous manufacture of filled and closed containers. 3,694,126, 9-26-72, Cl. 425-326.000.
Peck, Alvin W., to Phillips Petroleum Company. Clarifying ammonium phosphate solutions using attapulgite and bentonite. 3,697,233, 10-10-72, Cl. 23-293.00r.
Peck, Arland A.: *See*—
Appleby, Paul E.; Folden, Denver C.; and Peck, Arland A., 3,676,261.
Folden, Denver C.; and Peck, Arland A., 3,687,779.
Peck, David W.; and Gentry, Robert R., to Union Carbide Corporation. Method for producing esters of polycyclic compounds. 3,641,115, 2-8-72, Cl. 260-475.
Peck, Donald E.: *See*—
Hayes, John R.; Eckart, Francis H.; and Peck, Donald E., 3,670,624.
Peck, Donald W., to Oaks Power Corporation. Dual voltage power system for use with vehicle alternators and the like. 3,668,514, 6-6-72, Cl. 322-28.000.
Peck, James G., Jr., to PPG Industries, Inc. Method of operating a mercury-amalgam cathode electroltic cell. 3,691,036, 9-12-72, Cl. 204-99.000.
Peck, Lawrence J. Sewage treatment system. 3,638,793, 2-1-72, Cl. 210-73.
Peck, Merrill V.; Thompson, Edwin P.; Thompson, William F.; and Peck, Robert M., to Frank Edge Saw Manufacturing Company. Machine for cutting contour. 3,685,377, 8-22-72, Cl. 83-201.000.
Peck, Reese A.: *See*—
Herbstman, Sheldon; and Peck, Reese A., 3,684,685.
Herbstman, Sheldon; and Peck, Reese A., 3,684,686.
Patel, Jitendra A.; Herbstman, Sheldon; Peck, Reese A.; and Wilson, Raymond F., 3,668,117.
Wilson, Raymond F.; Peck, Reese A.; and Guptill, Frank E., Jr., 3,658,681.
Wilson, Raymond F.; Peck, Reese A.; and Guptill, Frank E., Jr., 3,671,420.
Peck, Reese A.; and Wilson, Raymond F., to Texaco Inc. Process for increasing the yield of lower boiling hydrocarbons. 3,671,421, 6-20-72, Cl. 208-68.000.
Peck, Richard O., to Amsted Industries Incorporated. Top block lifting with back block loading control. 3,675,889, 7-11-72, Cl. 249-82.000.
Peck, Richard Otis, to Amsted Industries Incorporated. Mold with tie rod assembly for slotted block. 3,689,023, 9-5-72, Cl. 249-82.000.
Peck, Robert M.: *See*—
Peck, Merrill V.; Thompson, Edwin P.; Thompson, William F.; and Peck, Robert M., 3,685,377.
Peck, Ronald G., to Square D Company Canada Limited. Electric circuit breaker with arc current shunting blade stacked on contact blade. 3,683,140, 8-8-72, Cl. 200-146.00r.
Peck, Thomas W., to Powers Manufacturing, Inc. Centrifugal filter. 3,646,724, 3-7-72, Cl. 55-274.
Peck, Walter R.: *See*—
Stencel, Fred B.; and Peck, Walter R., 3,648,955.
Peck, William G.: *See*—
Hall, Thomas O., Jr.; and Peck, William G., 3,702,922.
Pecka, Jan: *See*—
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Peckels, Kenneth T.: *See*—
Lerew, Wilford J.; and Peckels, Kenneth T., 3,698,675.
Peckham, Augustus W. Slidable snap fastener device for supporting drapes or curtains. 3,688,341, 9-5-72, Cl. 16-93.00d.
Pecksen, Otto: *See*—
Madlener, Paul; and Pecksen, Otto, 3,703,867.
Pecorari, John G.; and Tamkin, Michael S., to Zenith Radio Corporation. Final test arrangement for color cathode-ray tube. 3,654,548, 4-4-72, Cl. 324-20.
Pecorella, James. Multi-purpose carpet seam joining tool. 3,673,621, 7-4-72, Cl. 7-8.000.
Pecsi, Louis E.: *See*—
Ohntrup, Frederick F.; and Pecsi, Louis E., 3,672,470.
Pecze, Andras; Suto, Laszlo; and Banoczi, Zoltan, to Szerszamgepipari Muvek. Saw sharpener, particularly to sharpen jump saws. 3,651,715, 3-28-72, Cl. 76-37.
Peddinghaus, Carl Ullrich. Hydropneumatic shock absorber. 3,651,902, 3-28-72, Cl. 188-269.
Peddinghaus, Carl Ullrich. Headstock. 3,663,005, 5-16-72, Cl. 269-247.000.
Peddinghaus, Carl Ullrich. Bending machine. 3,670,541, 6-20-72, Cl. 72-8.000.
Peddinghaus, Carl Ullrich. Load-bearing spring leg. 3,684,269, 8-15-72, Cl. 267-64.000.
Peddinghaus, Paul Ferd.: *See*—
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Peddinghaus, Paul Ferd, Jr., 3,661,002.
Peddinghaus, Paul Ferd, Jr., to Peddinghaus, Paul Ferd. Bending machine for bending reinforcing irons for concrete. 3,661,002, 5-9-72, Cl. 72-21.
Pedersen, Arne Bybjerg, to Bristol-Myers Company. Hair roller containing temperature indicator. 3,665,938, 5-30-72, Cl. 132-33.00r.
Pedersen, Carl. Measuring instrument and reading device assembly. 3,650,599, 3-21-72, Cl. 350-113.
Pedersen, Charles John, to Du Pont de Nemours, E. I., and Company. Complexes of polyether compounds and ionic compounds. 3,686,225, 8-22-72, Cl. 260-340.300.
Pedersen, Charles John, to Du Pont de Nemours, E. I., and Company. Polyether compounds. 3,687,978, 8-29-72, Cl. 260-340.300.
Pedersen, Daryl R.; and White, Charles E., to Novatron, Inc. Solid state heat-cooling zone control system. 3,631,921, 1-4-72, Cl. 165-22.
Pedersen, Egon A., to Singer Company, The. Magnetically latched switch assembly. 3,639,869, 2-1-72, Cl. 335-207.
Pedersen, Egon A., to Singer Company, The. Keyboard having magnetic latching and improved operator touch. 3,693,123, 9-19-72, Cl. 335-206.000.
Pedersen, George H., to General Motors Corporation. Jet nozzle. 3,670,964, 6-20-72, Cl. 239-265.019.
Pedersen, Harry: *See*—
Bergemann, Werner E.; Hunkeler, Ernst J.; and Pedersen, Harry, 3,659,496.
Pedersen, Harry, to Gleason Works, The. Self-cleaning chuck. 3,674,280, 7-4-72, Cl. 279-2.000.
Pedersen, James M. Controllable pitch propeller. 3,690,788, 9-12-72, Cl. 416-157.000.
Pedersen, Johannes Sigurd, to Aarhus Metalemballage Industri. Method for producing cases having rounded sides and being open at both ends. 3,693,398, 9-26-72, Cl. 72-368.000.
Pedersen, John H.; and Bedford, Michael J., to Burroughs Corporation. Multiple terminal computer control system for group polling. 3,668,649, 6-6-72, Cl. 340-172.500.
Pedersen, Kristian Stausholm, to Danfoss A/S. Method for running in metal components. 3,664,886, 5-23-72, Cl. 148-6.15r.
Pedersen, Niels E., to Johnson Service Company. Electric to fluidic transducer. 3,645,293, 2-29-72, Cl. 137-608.
Pedersen, Norman E., to Panametrics, Inc. Signal processor. 3,696,417, 10-3-72, Cl. 343-7.700.
Pedersen, Poul K.; Wagstaff, Robert A.; and Waldrop, Thomas W., to Sperry Rand Corporation. Reverse drive for a forage harvester cutting reel. 3,678,772, 7-25-72, Cl. 74-220.000.
Pederson, Arthur M., to Battelle Development Corporation, mesne. Apparatus for temperature measurement. 3,675,484, 7-11-72, Cl. 73-362.0ar.
Pederson, Donald J.: *See*—
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Pederson, Ronald E., to Du Pont of Canada, Limited. Apparatus for sealing and cutting layers of thermoplastic film. 3,692,613, 9-19-72, Cl. 156-498.000.
Pederson, Wellington Edward: *See*—
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Pedigo, Joel B.: *See*—
Frampton, Orville D.; Pedigo, Joel B.; and Lecher, Hans Z., 3,673,251.
Pedigo, Joel B.; Feldman, Julian; and Keresztes, Imre A., to National Distillers and Chemical Corporation. Selective hydrolysis and cyclization of unsaturated nitriles. 3,666,766, 5-30-72, Cl. 260-294.7.
Pedigo, Richard A. Grass-clippings pelletizer for lawnmowers. 3,664,097, 5-23-72, Cl. 56-1.
Pedinoff, Melvin E.: *See*—
Zimmerman, Robert L.; Schweitzer, Bernard P.; Garvin, Hugh L.; Pedinoff, Melvin E.; and Waldner, Michael, 3,668,662.
Pedley, Dianne, to Maidenform Inc. Unitary brassiere and slip combination. 3,677,252, 7-18-72, Cl. 128-454.000.
Pedley, John David, to Hopkins & Buckland Limited. Safety rails and the like. 3,651,853, 3-28-72, Cl. 160-216.

Pedrani, Giulio, to Fiat Societa per Azioni. Air conditioning device for motor vehicles. 3,683,783, 8-15-72, Cl. 98-2.070.
Pedraza, Rafael De Jesus. Laminated pallet and method of making same. 3,684,632, 8-15-72, Cl. 161-41.000.
Pedrazzoli, Andrea; and Dall'Asta, Leone, to Societe d'Etudes de Recherches et d'Applications Scientifiques et Medicales E.R.A.S.M.E. 1-(Adamantylemethoxy)-2-hydroxy-3-substituted amino propanes and acid addition salts thereof. 3,663,617, 5-16-72, Cl. 260-63.
Pedrazzoli, Andrea; and Asta, Leone Dall, to Societe d'Etudes de Recherches et d'Applications Scientifiques et Medicales E.R.A.S.M.E. 1,2,3,6-Tetrahydropyridine derivatives. 3,702,850, 11-14-72, Cl. 260-294.860.
Pedretti, Alberto: *See—*
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Peebles, Joseph M., to Pillsbury Company, The. Apparatus for heating grain. 3,669,363, 6-13-72, Cl. 241-8.000.
Peek, Ellis, Jr. Fruit harvester. 3,698,579, 10-17-72, Cl. 214-83.100.
Peek, Henry L.: *See—*
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Armitage, Charles H.; Peek, Henry L.; and Pflanz, Herbert M., 3,641,294.
Peek, Henry L., to Allis-Chalmers Manufacturing Company. Circuit breaker with hydraulic operating mechanism for vacuum interrupter. 3,674,955, 7-4-72, Cl. 200-82.000.
Peekema, Richard M.: *See—*
Hart, Burt E.; and Peekema, Richard M., 3,652,902.
Peel, Eric: *See—*
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Peel, Richard V.; and Phillips, Billie W., to Marquardt Industrial Products Co. Train length measurement system. 3,641,338, 2-8-72, Cl. 246-1.
Peel, Robert; and Northup, Francis B. Yarn covering apparatus. 3,698,173, 10-17-72, Cl. 57-18.000.
Peelle, Jonathan W.: *See—*
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Peep, Mart; and Flower, Ronald J., to United States of America, Navy. Water wave follower. 3,656,342, 4-18-72, Cl. 73-170.
Peer, Hendricus Gerardus: *See—*
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Peerless Industries, Inc.: *See—*
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Peerless Trailer and Truck Service, Inc.: *See—*
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Peery, Walter E., to Eureka Carlisle Company. Web winding machine. 3,645,465, 2-29-72, Cl. 242-72.1.
Peery, Walter E. Frictional torque transferring apparatus with a liquid mercury cooling system. 3,695,407, 10-3-72, Cl. 192-113.00b.
Peeso, James B., Jr., to American Cyanamid Company. Compositions and processes for acrylonitrile polymer spinning solutions. 3,632,541, 1-4-72, Cl. 260-29.6.
Peeso, James Bruce, Jr.: *See—*
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Peet, James, 1/2 to West Bridgford Machine Co., Limited. Take down apparatus for circular seamless hose knitting machines. 3,668,900, 6-13-72, Cl. 66-149.
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Peets, Robert S., to Singer Company, The. Carrying case for sewing machines. 3,680,939, 8-1-72, Cl. 312-208.000.
Peetz, Hans Dieter; and Lurssen, Hermann, to Compagnie de Saint-Gobain. Electric thermal window with an adjustable terminal structure. 3,634,654, 1-11-72, Cl. 219-522.
Pefferman, William C., to PPG Industries, Inc. Treatment of titanium tetrachloride dryer residue. 3,696,519, 10-10-72, Cl. 34-9.000.
Pegert, Walter Emil: *See—*
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Pegg, Frank Raymond. Bulk display self service bin unit. 3,650,384, 3-21-72, Cl. 206-45.34.
Pegg, Samuel, & Son, Limited: *See—*
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Pehrsson, Anders Lennart; and Andersson, Sven-Ola, to Aktiebolaget Karlstads Mekaniska Werkstad. Hollow blade for propellers and method of making it. 3,647,318, 3-7-72, Cl. 416-233.
Pei, Yu Kun; and Veres, Frank, to Owens-Illinois, Inc. Method for making and assembling sealed tubular bodies. 3,666,583, 5-30-72, Cl. 156-82.000.
Peiffer, Harold E.; and Kohl, Ralph A., to Eastman Kodak Company. Fluid dispensing apparatus. 3,668,996, 6-13-72, Cl. 95-89.00r.
Peiffer, Howard Richard: *See—*
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Slator, Damon T.; Bishop, Thomas R.; and Peil, Archie W., 3,689,112.
Slator, Damon T.; and Peil, Archie W., 3,690,381.
Slator, Damon T.; and Peil, Archie W., 3,692,107.
Peil, Le Roy E. Apparatus for baggage inspection. 3,678,278, 7-18-72, Cl. 250-108.00r.
Peil, William, to General Electric Company. Signal processor for reception of amplitude or frequency modulated signals. 3,665,507, 5-23-72, Cl. 325-315.000.
Peil, William; Daino, Peter R.; and Sauter, Lon J., to General Electric Company. Push-button switch assembly. 3,705,367, 12-5-72, Cl. 335-186.000.
Peille, Jean Marie Raymond Albert. Process for continuous production of composite plates whose faces can be given a profile or a fixed impression. 3,689,348, 9-5-72, Cl. 156-292.000.
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Peirce, Inez H. Cooking grill. 3,664,256, 5-23-72, Cl. 99-425.000.
Peirce, Patricia Marie. Cake tier separator. 3,690,610, 9-12-72, Cl. 248-159.000.
Peisner, Israel D.; Stol, George H.; and Gotcher, Eugene D., to Whitehead & Kales Company. Vehicle tie-down device. 3,673,969, 7-4-72, Cl. 105-369.00a.
Pek, Inc., mesne: *See—*
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Pekau, Dietlind, to Bendix Corporation, The. Apparatus for constructing a reduced information content hologram. 3,643,017, 2-15-72, Cl. 178-6.5.
Pekko, John A., to Avery Products Corporation. Tamper proof label construction. 3,631,617, 1-4-72, Cl. 40-2.2.
Pekor, Charles B., to Pekor Iron Works. Apparatus for centrifugally forming hollow articles. 3,692,457, 9-19-72, Cl. 425-435.000.
Pekor Iron Works: *See—*
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Pekrul, Ewald, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Variable load relay valve with Belleville spring type lock for exhaust valve seat positioned according to load. 3,671,087, 6-20-72, Cl. 303-60.000.
Pekrul, Roger K., to Oklahoma Publishing Company, The. Rotary press preprinted web registering device. 3,648,911, 3-14-72, Cl. 226-30.
Pelam Inc.: *See—*
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Pelavin, Milton H.; Koszyn, Allan I.; and Heier, Earl, to Technicon Instruments Corporation. Method and apparatus for automatic

baseline and standard calibration of automatic, multi-channel sequentially operable fluid sample supply, treatment and analysis eans. 3,634,868, 1-11-72, Cl. 235-151.3.

Pelenc, Yves: *See—*
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Pelenc, Yves, to Merlin Gerin Societe Anonyme. Two slot linear induction motor. 3,679,952, 7-25-72, Cl. 318-135.000.

Pelensky, Walter J. Fretted ukrainian bandura. 3,635,116, 1-18-72, Cl. 84-291.

Pelham, Joseph E.; and Osburn, Albert Ray, to Thiokol Chemical Corporation. Demand, solid-propellant gas generator. 3,701,256, 10-31-72, Cl. 60-39.470.

Pelikan, Hans Dieter; and Funke, Hans Joachim, to Feldmuhle Aktiengesellschaft. Method of conglomerating fibers. 3,645,813, 2-29-72, Cl. 156-62.4.

Pelino, William M.; Moenich, Raymond A.; McLean, Benjamin F.; and Hamblin, James C., to Railtron Corporation. Vehicle fault indicating apparatus. 3,662,168, 5-9-72, Cl. 246-169.

Pelissier, Yves: *See—*
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Pelizzoni, Winton J., to Mack Trucks, Inc. Hydraulic valve lifter. 3,650,251, 3-21-72, Cl. 123-90.57.

Pelizzoni, Winton J., to Mack Trucks, Inc. Variable venturi carburetors. 3,659,572, 5-2-72, Cl. 123-119.000.

Pelka, Horst, to Siemens Aktiengesellschaft. Overload protection circuit. 3,638,102, 1-25-72, Cl. 323-9.

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Pelle, Jozsef; and Varga, Laszlo, to Heves Megyei Beruhazasi Vallalat. Formwork assembly. 3,689,018, 9-5-72, Cl. 249-13.000.

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Pellegrini, Armando Paulo. Process for the production of dry molasses from sugar-cane or beetroot molasses. 3,698,911, 10-17-72, Cl. 99-6.000.

Pellegrini, Giovanni: *See—*
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Pellegrini, John P., Jr.; and Spolners, Ilgvars J., to Gulf Research & Development Company. Insecticidal composition containing a triorganotin derivative of a cyclic compound. 3,632,769, 1-4-72, Cl. 424-288.

Pellerano, Cesare Enrico Guiseppe: *See—*
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Pellet, William, to United States of America, Army. Spin switch. 3,705,965, 12-12-72, Cl. 200-61.530.

Pelletier, Marc, to Ehenisteric Pelletier Enr. Apparatus to displace a snowmobile. 3,690,481, 9-12-72, Cl. 214-85.000.

Pelletier, Robert A., to Mechtron International Corporation. Self-propelled conveyor apparatus. 3,687,276, 8-29-72, Cl. 198-233.000.

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Pelletiere, Thomas James, to Illinois Tool Works Inc. Spring hinge device. 3,702,491, 11-14-72, Cl. 16-189.000.

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Pellizzetti, Italo. Refrigerator system. 3,633,380, 1-11-72, Cl. 62-217.

Pellizzetti, Italo. Compressors for refrigeration systems. 3,656,874, 4-18-72, Cl. 417-415.

Pellkofer, Dieter, to Sulzer Brothers Limited. Magnetic control of arc in strip plating. 3,659,075, 4-25-72, Cl. 219-76.

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Pelster, Arthur F.; and Modglin, Donald D., to Kentucky Fried Chicken Corporation, mesne. Deep fat frying equipment. 3,677,174, 7-18-72, Cl. 99-417.000.

Pelta, Edmond R., to Autoscan, Inc. Equipment for testing the brakes of automobiles. 3,633,412, 1-11-72, Cl. 73-126.

Pelta, Edmond R.; and Gold, Kenneth Stewart, to Autoscan, Inc. System for displaying the characteristics of ignition signals in an internal combustion engine. 3,638,107, 1-25-72, Cl. 324-15.

Pelta, Edmond R.; and Gold, Kenneth Stewart, to Autoscan, Inc. System for determining the ignition advance in the distribution of an engine. 3,665,294, 5-23-72, Cl. 324-16.

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Pelton, Dean E., to Sylvania Electric Products, Inc. Process for preparing phosphors. 3,691,088, 9-12-72, Cl. 252-301.60s.

Peltret, Pierre Henri, to C.A.V. Limited. Governor mechanisms. 3,699,816, 10-24-72, Cl. 73-526.000.

Peltzer, Douglas L., to Fairchild Camera and Instrument Corporation. Method of fabricating integrated circuits with oxidized isolation and the resulting structure. 3,648,125, 3-7-72, Cl. 317-235.

Peluso, Raymond F.; and David, Richard F., to Martin-Marietta Corporation. High density packaging of electronic components in three-dimensional modules. 3,671,812, 6-20-72, Cl. 317-118.000.

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Matthieu, Paul; Leuchs, Ottmar; Glander, Fritz; Kuypers, Hubert; and Pelz, Diethart, 3,698,440.

Pelz, Friedrich, to Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-Kessel- und Waggonbau. Low-platform railway car bogie. 3,665,865, 5-30-72, Cl. 105-183.000.

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Pemberton, Paul E.: *See—*
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Pemberton, Paul E.; and Luby, John J. Sectional fire door assembly. 3,685,567, 8-22-72, Cl. 160-8.000.

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Penberthy, Walter L.; Bayless, Jack H.; and Ayers, Robert C., Jr., to Esso Production Research Company. Well insulation method. 3,664,425, 5-23-72, Cl. 166-303.000.
Penberthy, Walter L., Jr.; Bayless, Jack H.; and West, Robert C., to Esso Production Research Company. Method for insulating a well. 3,664,424, 5-23-72, Cl. 166-303.000.
Pence, Roy J., to University of California, The Regents of the. Method and composition for cleansing hair of animals. 3,634,264, 1-11-72, Cl. 252-106.
Pence, Roy J., to University of California, The Regents of the. Apparatus for sensitive measurement and recording of physiological activity. 3,703,101, 11-21-72, Cl. 73-432.00r.
Pence, Samuel A., Jr., to Dow Chemical Company, The. Organo polymer cements with extended working time. 3,677,987, 7-18-72, Cl. 260-29.60m.
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Pendergrass, Buford; Applequist, Quintin A.; and Snyder, Alan Howard, Jr., to Roberts Industries, Inc. Take-up apparatus. 3,664,717, 5-23-72, Cl. 308-15.
Penders, Edward F. Word forming game device. 3,640,531, 2-8-72, Cl. 273-1.
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Penfold, Addison E., Jr., to Triple "A" Accessories. Engine exhaust header construction. 3,670,844, 6-20-72, Cl. 181-40.000.
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Pennachetti, John T.; and Boux, Joseph F., to Enercon International Limited. Process for the treatment of fly ash and product. 3,669,703, 6-13-72, Cl. 106-288.00b.
Pennel, Gerard J.; Prouvost, Gonzague J.; and Pruvost, Robert P., to Etablissements Pennel & Flipo. Tie for a pneumatic mattress. 3,683,431, 8-15-72, Cl. 5-350.000.
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Penniman, John G., Jr. Edge-inking of shoe soles and coloring of uppers. 3,679,454, 7-25-72, Cl. 117-44.000.
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Pennington, John Stanley, to British Steel Corporation. Metallic cage structure and apparatus for manufacturing same. 3,706,331, 12-19-72, Cl. 140-112.000.
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Penny, Robert Noel, to Leyland Gas Turbines Limited. Thermal regenerators. 3,692,097, 9-19-72, Cl. 165-9.000.

Penny, William H., to Sierra Engineering Co. Visor-latching device. 3,631,540, 1-4-72, Cl. 2-6.

Pennypacker, Frank C., to Lindsay Specialty Products Limited. High frequency signal routing devices for use in CATV systems. 3,671,885, 6-20-72, Cl. 333-8.000.

Pennypacker, Frank Chester, to Lindsay Specialty Products Limited. Signal splitter. 3,676,744, 7-11-72, Cl. 317-99.000.

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Penrod, Robert M., and Smith, Wallace B. Puzzle toy. 3,684,292, 8-15-72, Cl. 273-156.000.

Pensa, Carlo. Hydraulic apparatus for regulating the flow of one or more pumps. 3,694,108, 9-26-72, Cl. 417-222.000.

Pensa, Pietro, to Massey-Ferguson Services N.V. Wear compensating seal. 3,656,820, 4-18-72, Cl. 308-36.1.

Pensa, Pietro, to Massey-Ferguson Services N.V. Tilting dozer blade. 3,661,215, 5-9-72, Cl. 172-804.

Penso, George N. Automatic scaffolding erecting and dismantling machine. 3,684,056, 8-15-72, Cl. 182-19.000.

Pentegov, Igor Vladimirovich: *See*—
Mescheryak, Sergei Nikolaevich; Stemkovsky, Evgeny Petrovich; Pentegov, Igor Vladimirovich; Vorona, David Semenovich; and Moravsky, Vladislav Eduardovich, 3,644,699.
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Pentegov, Igor Vladimirovich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Podola, Nikolai Vasilievich; and Emelyanenko, July Georievich, 3,665,081.

Pentegov, Igor Vladimirovich; Semergeev, Stepan Ivanovich; Sheikovsky, Dmitry Alexeevich; Mescheryak, Sergei Nikolaevich; Stemkovsky, Evgeny Petrovich; Litvin, Leonid Vladimirovich; and Shelest, Nikolai Antonovich. Transformer with means for conveying elecric energy to rotary current-collecting devices. 3,663,909, 5-16-72, Cl. 336-55.

Pentel Co., Ltd.: *See*—
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Pentescu, Peter N.: *See*—
Bradley, John N.; and Pentescu, Peter N., 3,635,274.

Pentith, Gerald R. O.: *See*—
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Pentith, Gerald R. O., to Greenside Machine Company, Limited. Cutting heads. 3,647,265, 3-7-72, Cl. 299-90.

Pento, Frank Louis, to Bell Telephone Laboratories, Incorporated. Digitally operated signal regenerator and timing circuit. 3,671,875, 6-20-72, Cl. 328-129.

Penton, Edgar W., to Eduardo's Industries. Process of making sauce concentrates. 3,652,299, 3-28-72, Cl. 99-144.

Penton, Edgar W., to Eduardo's Industries. Method of preparing glazed food products. 3,653,924, 4-4-72, Cl. 99-168.

Penton, Hugh V.; and Dunphy, Gerald P., to California Metal Enameling Company. Sign construction including novel section assemblies and section joinders. 3,704,535, 12-5-72, Cl. 40-125.00k.

Pentron Electronics Corporation: *See*—
Sampey, Harry R., 3,642,087.

Pentronix, Inc.: *See*—
Smith, Joseph E., 3,682,577.

Penwell, James T. Oil well pump working barrel. 3,678,811, 7-25-72, Cl. 92-169.000.

Penzel, Herbert W.: *See*—
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Penzes, Stephen, 30% to Canada-Cities Services, Ltd., 30% to Imperial Oil Limited, 30% to Atlantic Richfield Company and 10% to Royalite Oil Company, Limited. Treatment of bituminous sands for recovery of heavy metals therefrom. 3,656,938, 4-18-72, Cl. 75-01.

Penzl, Reinhold: *See*—
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Peon, Gilbert A.: *See*—
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Peonski, Edward, to American Gage & Machine Company. Machine tool and gaging apparatus. 3,704,557, 12-5-72, Cl. 51-165.750.

Peoples, Jerry A. Reciprocating engine. 3,653,297, 4-4-72, Cl. 91-184.

Peoples, John C. A.; and Adler, Stanford L., to Technicon Corporation. Automatic method and apparatus for the sequential typing of blood samples. 3,635,680, 1-18-72, Cl. 23-230.

Peoples, Richard A., to Bethlehem Steel Corporation. Method for treating a flux coating. 3,635,748, 1-18-72, Cl. 117-46.

Peoria Journal Star, Inc., The: *See*—
Schwarz, Walter K.; and Schlink, David J., 3,680,775.

Pep Professional and Engineered Patents Limited: *See*—
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Pepe, Anthony Enico; Lengnick, Guenther Fritz; and Neuroth, Charles George, to Stauffer-Wacker Silicone Corporation. Room temperature curing organopolysiloxanes. 3,661,816, 5-9-72, Cl. 260-18.

Pepe, Anthony Enrico; Lengnick, Guenther Fritz; and Neuroth, Charles George, to Stauffer-Wacker Silicone Corporation. Room temperature curing organopolysiloxanes. 3,684,793, 8-15-72, Cl. 260-18.00s.

Pepe, Enrico J.; and Kanner, Bernard, to Union Carbide Corporation. Quaternary ammonium salts of chloromethylated silicon compounds. 3,661,963, 5-9-72, Cl. 260-448.2.

Pepe, Enrico J.; and Marsden, James G., to Union Carbide Corporation. Urea silicon product and the preparation thereof. 3,671,562, 6-20-72, Cl. 260-448.80r.

Pepe, Frank W. Method of forming multiple hole conduit lamps and hangers. 3,650,141, 3-21-72, Cl. 72-332.

Pepelnik, Rudolf: *See*—
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Peper, Harvey G. Gripper clamp for screeds. 3,645,577, 2-29-72, Cl. 294-104.

Pepi, Guglielmo. Rolling slides. 3,645,588, 2-29-72, Cl. 308-6.
Pepi, Inc.: *See—*
Haas, David J.; and Pichert, Jerome, 3,689,790.
Pepin, James J.: *See—*
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Peplin, Edward D., to Lakewood Manufacturing Co. Vibrating foot drying and treating apparatus. 3,683,896, 8-15-72, Cl. 128-24.200.
Pepmeier, Carl R.: *See—*
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Pepmeier, Carl R., to FMC Corporation. Sheet material heating and humidifying device. 3,662,954, 5-16-72, Cl. 239-134.
Pepmeier, Carl R.; Sincavage, Joseph T.; and Stoffregen, Louis E., to FMC Corporation. Apparatus for splicing sheet materials. 3,673,046, 6-27-72, Cl. 156-517.000.
Pepper, Hurley D.: *See—*
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Pepper, Kenneth V., to Esso Research and Engineering Company. Drain, waste and vent expansion joint. 3,650,549, 3-21-72, Cl. 285-27.
Pepper, Peter W. Navigational course computer and plotter. 3,643,333, 2-22-72, Cl. 33-1.
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Peppin, Richard A.; and Trottochau, Lawrence D., to Mannix Construction Inc. Machine for inserting ties beneath a railroad track. 3,698,324, 10-17-72, Cl. 104-9.000.
PEPRO-Societe pour le Developpement et la Vente de Specialites Chimiques: *See—*
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PEPRO-Societe pour le Developpement et la Vente de Specialites Chimiques: *See—*
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Buckman, Stanley J.; Buckman, John D.; Pera, John D.; and Raths, Fred W., 3,670,004.
Pera, John D.; and Raths, Fred W., to Buckman Laboratories, Inc. S-chloromethyl compounds of 2-mercaptobenzothiazoles, 2-mercaptobenzoxazoles, and 2-mercaptobenzimidazoles. 3,669,981, 6-13-72, Cl. 260-306.000.
Peral Hernandez, Antonio. Automatic device for dialling pulses. 3,659,058, 4-25-72, Cl. 179-90.
Perales, Fernand: *See—*
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Perception Technology Corporation: *See—*
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Percher, Guy, to Societe d'Instrumentation Schlumberger. Method and apparatus for addressing different data points from a central station. 3,699,523, 10-17-72, Cl. 340-172.500.
Percheron, Jean-Claude G.; and Septier, Louis, said Percheron assor. to Compagnie Pechiney. Process for the treatment of nodular cast iron. 3,661,566, 5-9-72, Cl. 75-130.00r.
Percival, Herbert Warren: *See—*
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Percival, John O., to National Cash Register Company, The. Semiconductor flip-chip soldering method. 3,665,590, 5-30-72, Cl. 29-494.000.
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Perconti, Thomas J., to Eastman Kodak Company. Surface winding apparatus. 3,692,252, 9-19-72, Cl. 242-66.000.
Perdue, Richard R.; Hoagland, Le Roy F.; and Kuehne, Richard O., to Grace, W. R., & Co. Vacuum skin package and process and apparatus for making same. 3,694,991, 10-3-72, Cl. 53-22.00a.
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Pere, Carlo; and Tornich, Fulvio. Method for heating metal slabs or billets in continuous pusher-type furnaces. 3,677,531, 7-18-72, Cl. 263-6.00r.
Pere, Carlo; and Tornich, Fulvio. Method of heating steel ingots in soaking pits and combustion system for performing said method. 3,689,041, 9-5-72, Cl. 263-40.00r.
Pere, Carlo; Tornich, Fulvio; and Macor, Tranquillo. Automatic control apparatus for soaking pit furances. 3,689,042, 9-5-72, Cl. 263-40.00r.
Pere, Gerard, to Creusot-Loire. Device for driving a rotary element capable of deformation and of displacement parallel to its theoretical axis of rotation. 3,706,237, 12-19-72, Cl. 74-410.000.
Perego, Guiseppe. Play-pen for children. 3,656,194, 4-18-72, Cl. 5-98.
Perego, Guiseppe. Molding apparatus having ejector pins with oriented shaping surfaces for product removal. 3,687,591, 8-29-72, Cl. 425-249.000.
Peregud, Boris Petrovich: *See—*
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Peres, Anthony R., to Peres Electronic Machinery, Inc. Conveyor jogging mechanism. 3,707,216, 12-26-72, Cl. 198-30.000.
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Pereyra, Armand J. Necktie rack. 3,705,653, 12-12-72, Cl. 211-13.000.
Perez, Arthur, to Clark Equipment Company. Two stage refrigeration plant having a plurality of first stage refrigeration systems. 3,675,441, 7-11-72, Cl. 62-278.000.
Perez, Arthur, to Clark Equipment Company. Walk-in cooler refrigerated display case combination. 3,698,205, 10-17-72, Cl. 62-256.000.
Perez, Damaso Rodolfo Adelto. Screen filter pack and method for making same. 3,679,057, 7-25-72, Cl. 210-223.000.
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Perez, Henry C., to Hall, Francis C. Stringed musical instrument. 3,688,632, 9-5-72, Cl. 84-314.000.
Perez-Albuerne, Evelio A., to Eastman Kodak Company. Organic semiconductors comprising an electron donating cation which is a group VIa element derivative of a polycyclic aromatic hydrocarbon and an electron accepting anion. 3,634,336, 1-11-72, Cl. 252-519
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Perga, Martin W.; DePalma, Ted V.; Fessler, LeRoy E.; and Brons, Albert J., to Universal Oil Products Company. Catalytic exhaust converter construction. 3,649,215, 3-14-72, Cl. 23-288.
Perga, Martin W.; and De Palma, Ted V., to Universal Oil Products Company. Exhaust gas treatment system. 3,657,892, 4-25-72, Cl. 60-274.
Perga, Martin W.; and De Palma, Ted V. Self-cleaning catalytic converter. 3,695,850, 10-3-72, Cl. 23-288.00f.
Perga, Martin W., to Universal Oil Products Company. Exhaust gas catalytic converter. 3,695,851, 10-3-72, Cl. 23-288.00f.
Pergaminos, Stavros. Method of making a filter for tobacco smoke. 3,674,540, 7-4-72, Cl. 117-56.000.
Perge, Andreas, to U.S. Philips Corporation. Central record spindle. 3,632,116, 1-4-72, Cl. 274-10.
Pergola, Nicola F. Method and apparatus for treating and disposing of sewage. 3,655,048, 4-11-72, Cl. 210-67.
Perhach, John M., to Glar-Ban Corporation. Torque motor controlled fluid valve. 3,662,784, 5-16-72, Cl. 137-625.620.
Perilhou, Jean Robert; and Auphan, Michel Joseph, to U.S. Philips Corporation. Device for measuring the flow of blood. 3,670,715, 6-20-72, Cl. 128-2.05v.
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Perilstein, Warren L., to Ethyl Corporation. Gasoline additive and composition. 3,703,360, 11-21-72, Cl. 44-63.000.
Perilstein, Warren L., to Ethyl Corporation. Process for preparing overbased barium sulfonates and their use in diesel fuels. 3,704,105, 11-28-72, Cl. 44-51.000.
Perina, Joseph, to American Velcro, Inc. Self-locking system. 3,658,107, 4-25-72, Cl. 151-34.
Perina, Joseph, to American Velcro, Inc. Window glass retention system. 3,668,808, 6-13-72, Cl. 49-465.000.
Perina, Joseph, to American Velcro, Inc. Attachment device of hook and loop fasteners. 3,679,530, 7-25-72, Cl. 161-48.000.
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Perkins, Carroll R.; Shaffstall, Everett L.; Yoder, Robert N.; and Gundersen, James L., to Hughes Aircraft Company. Data converting and clock pulse generating system. 3,659,286, 4-25-72, Cl. 340-347.0dd.
Perkins, Charles H., to Robertshaw Controls Company. Pneumatic control system and method of operating the same or the like. 3,683,949, 8-15-72, Cl. 137-84.000.
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Perkins, Earl Stuart, to Butler National Corporation. Automatic waypoint. 3,652,837, 3-28-72, Cl. 235-150.27.
Perkins, Earl Stuart, to Butler National Corporation. Area navigation system for automatically selecting waypoints on the track and lying at a right angle from a master station. 3,691,361, 9-12-72, Cl. 235-150.270.
Perkins, Earl Stuart, to Butler National Corporation. Navigation system for improving noisy signals. 3,696,425, 10-3-72, Cl. 343-107.000.
Perkins, Earl Stuart, to Butler National Corporation. Rectilinear navigation system. 3,696,426, 10-3-72, Cl. 343-107.000.
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Perkins, Garry R., to Spotnails, Inc. Pneumatic driving tool with a fail-safe mechanism. 3,651,740, 3-28-72, Cl. 91-417.
Perkins, Garry R.; and Goode, James K., Jr., to Spotnails, Inc. Package for collated elements and a guide attachment therefor. 3,684,339, 8-15-72, Cl. 312-73-.
Perkins, Garry R.; and Goode, James K., to Spotnails, Inc. Magazine and feed assembly for a fastener-driving tool. 3,688,966, 9-5-72, Cl. 227-127.000.
Perkins, Garry R., to Spotnails, Inc. Fastener guiding device. 3,707,406, 12-26-72, Cl. 227-130.000.
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Perkins, Neale A., to Safariland Ltd., Inc. Belt. 3,664,560, 5-23-72, Cl. 224-5.00r.
Perkins, Ralph. Pipe joining jack. 3,653,115, 4-4-72, Cl. 29-237.
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Perl, Richard L. Gas oven. 3,682,156, 8-8-72, Cl. 126-21.00a.
Perl, Richard L., to Tappan Company, The. Concealed surface cooking assembly. 3,682,157, 8-8-72, Cl. 126-37.00b.
Perl, Theodore. Light-proofed automatic radiographic cassette unloader-reloader. 3,675,014, 7-4-72, Cl. 250-66.00.
Perla, Martin R. Needle positioning mechanism for sewing machines. 3,667,412, 6-6-72, Cl. 112-219.00a.
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Perley, Richmond, to United Aircraft Corporation. Transfer electrostatic printing system. 3,701,996, 10-31-72, Cl. 346-74.0es.
Perlick, Reinhold; and Duerhagen, Klaus, to Eaton Yale & Towne, GmbH. Mortise lock with latchbolt and deadbolt, especially for hotel guest room doors. 3,631,695, 1-4-72, Cl. 70-432.
Perlinger, Hans L.; and Milazzo, Joseph S., to GAF Corporation. Preparation of monobenzamido derivatives of diaminoanthraquinone. 3,651,099, 3-21-72, Cl. 260-377.
Perlino, Silvano, to Necchi, S.p.A. Bobbin winding device for sewing machines. 3,635,412, 1-18-72, Cl. 242-20.
Perlino, Silvano, to Necchi S.p.A. Apparatus for automatically sewing patch pockets onto garments. 3,667,411, 6-6-72, Cl. 112-121.12.
Perlino, Silvano, to Necchi S.p.A. Sewing machine with base extension. 3,677,210, 7-18-72, Cl. 112-258.000.
Perlman, Barry Stuart; and Walsh, Thomas Edward, to RCA Corporation. Transferred electron amplifier. 3,644,839, 2-22-72, Cl. 330-5.
Perlman, Berry Stuart: *See—*
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Perlman, David E.: *See—*
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Perlman, David E.; and Wiktorski, Daniel F., to Eastman Kodak Company. Automatic focusing device. 3,631,785, 1-4-71, Cl. 95-44.
Perlman, David E., to Detection Systems, Inc. Single terminal electro-optical intruder detection device. 3,644,917, 2-22-72, Cl. 340-258.
Perlman, David E., to Detection Systems Inc. Integrating circuit using a programmable unijunction transistor. 3,644,918, 2-22-72, Cl. 340-276.
Perlman, David E., to Detection Systems, Inc. Parametric integrator for condition-responsive systems. 3,680,047, 7-25-72, Cl. 340-258.00b.
Perlman, David E.; and Degen, Donald S. Detection system employing digital bandpass filtering circuitry. 3,681,745, 8-1-72, Cl. 340-1.00r.
Perlman, David J.: *See—*
Kolankowsky, Eugene; McMahon, Robert F.; and Perlman, David J., 3,643,236.
Perlman, Marvin: *See—*
United States of America, National Aeronautics and Space Administration, 3,700,869.
Perlman, Morris. Method and apparatus for attaching sliders to a slide fastener chain. 3,663,000, 5-16-72, Cl. 29-207.5.
Perlman, Sol J., to Vac Pac Manufacturing Company, Inc. Process for packaging articles. 3,686,823, 8-29-72, Cl. 53-22.00b.
Perlman Stuart Stanley; and McCusker, Joseph Henry, to RCA Corporation. Ferro-electric transformers with means to supress or limit resonant vibrations. 3,683,211, 8-8-72, Cl. 310-8.200.
Perma Horn Sales Corporation: *See—*
Paoletta, Rocco E.; and Petrou, William, 3,643,350.
Perma Products Co.: *See—*
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Permattach Diamond Tool Corporation: *See—*
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Perminov, Evgeny Mikhailovich. Locking device for the carriage of a drawing apparatus. 3,656,238, 4-18-72, Cl. 33-76.
Perminov, Evgeny Mikhailovich. Drawing head for use in drawing devices. 3,657,822, 4-25-72, Cl. 33-79.
Perminov, Evgeny Mikhailovich, to Minsky Opytny Zavod Spetsialnogo Konstruktorskogo Bjuro No. 3. Drawing machine. 3,682,108, 8-8-72, Cl. 108-6.000.
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Perminov, Evgeny Mikhailovich, to Minsky Opytny Zavod Spetsialnogo Konstruktorskogo Bjuro No. 3. Drawing head for use in drawing devices. 3,703,768, 11-28-72, Cl. 33-79.00r.
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Launay, Jacques; and Mongault, Jacques, 3,683,961.
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Perna, Aldo; and de Varda, Giorgio, to Societa Italiana Telecomunicazioni Siemens S.p.A. Automatic circuit-testing means for time-sharing telecommunication system. 3,641,275, 2-8-72, Cl. 179-15.
Perner, Johannes Jurgen: *See—*
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Pernet, Michel, to Erste Deutsche Floatglas GmbH & Co. Weir-like body extending from below into a body of moving molten glass. 3,700,424, 10-24-72, Cl. 65-333.000.
Pernick, David: *See—*
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Pernick, David. Yarn feeding means for knitting machines. 3,651,668, 3-28-72, Cl. 66-132.
Pernick, Louis, 25% each to Pernick, David, Haft, David and Finkelstein, Arthur. Design wheel for knitting machines. 3,643,470, 2-22-72, Cl. 66-50.
Perno, Bartholomew J.: *See—*
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Pernoud, Claude, to Regie Nationale des Usines Renault and Automobiles Peugeot. Air vent devices for air conditioning systems. 3,703,141, 11-21-72, Cl. 98-121.00r.
Pero, Vincent C. Baseball pitching practice device. 3,698,712, 10-17-72, Cl. 273-26.00a.
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Peron, Robert J. GH., to G. Dumont et Freres, Societe Anonyme. Pump having a varying output. 3,661,058, 5-9-72, Cl. 91-488.
Perona, Giovanni. Coherent dispersion hardened. 3,689,328, 9-5-72, Cl. 148-31.500.
Peroni, George J., to Seatech Corporation. Personal underwater vehicle. 3,685,480, 8-22-72, Cl. 115-6.100.
Peroni, Peter A.; and Jones, John Paul, Jr., to Navigation Computer Corporation. Universal modular printed circuit magnetic reed keyboard switch assembly. 3,664,014, 5-23-72, Cl. 29-622.
Peronneau, Georges; and Poizat, Henri, to Thomson-CSF Visualisation et Traitement des Informations T-VT. Position indicating system. 3,657,475, 4-18-72, Cl. 178-18.
Peronneau, Georges, to Thomson-CSF Visualisation et Traitement des Informations (T.V.T.). System for the display of synthesized graphic smybols. 3,696,391, 10-3-72, Cl. 340-324.00a.
Peronneau, Pierre; and Leger, Fernand, to Compagnie Generale d'Electricite and Agence Nationale de Valorisation de la Recherche (Anvar). Transducer arrangement for measuring blood fow. 3,661,146, 5-9-72, Cl. 128-2.05.
Peronti, Anthony, 1/2 to White, Michael S. Automatic surgery retractor. 3,643,655, 2-22-72, Cl. 128-20.
Perotti, Dino; and Perotti, Mario. Pedal link assembly for bicycles. 3,648,542, 3-14-72, Cl. 74-594.1.
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Perotto, Pier Giorgio, to Olivetti, Ing., C., & C., S.p.A. Data input device. 3,707,715, 12-26-72, Cl. 340-365.00p.
Perov, Alexandr Vasilievich: *See—*
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Perper, Robert J., to Upjohn Company, The. Process for separating horse gamma globulin fractions by chromatography. 3,664,994, 5-23-72, Cl. 260-112.
Perras, Colette; and Papillon, Jacques, to Medical Engineering Corporation. Surgically implantable breast prosthesis. 3,665,520, 5-30-72, Cl. 3-36.
Perras, Colette, to Moxness Products, Inc. Implantable breast prosthesis filled with gels of different densities. 3,681,787, 8-8-72, Cl. 3-36.000.
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Perrat, Jean-Marie: *See—*
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Perrault, Delphus Eugene; and Schopp, Frederick Ralph, to Web Press Corporation. Variable-drive hydraulic transmission for the fountain and ductor roll assemblies of an offset printing press. 3,686,863, 8-29-72, Cl. 60-54.50r.

Perrault, Jean; and Salle, Adelin E. G., to International Standard Electric Corporation. Data transmission system bidirectional data transmission system with error correction. 3,641,494, 2-8-72, Cl. 340-146.1.
Perrault, Michel B. Linear or rotary musical indicator. 3,635,122, 1-18-72, Cl. 84-477.
Perreault, Donald A., to Xerox Corporation. Multi-waveform generation from a single tapped delay line. 3,659,207, 4-25-72, Cl. 328-14.
Perreault, Jules; and Southiere, Bertrand, to Bombardier Limited. Tracked vehicle suspension. 3,658,392, 4-25-72, Cl. 305-24.
Perreault, Jules, to Bombardier Limited. Endless track. 3,704,918, 12-5-72, Cl. 305-38.000.
Perreault, Jules; and Lemieux, Claude, to Bombardier Limited. Spring unit for snowmobile ski runner assembly. 3,707,297, 12-26-72, Cl. 280-25.000.
Perrella, Donald J. Educational device. 3,654,706, 4-11-72, Cl. 35-9.
Perrella, Guido; and Genest, Robert, to Testograph Limited. Testing machine. 3,651,585, 3-28-72, Cl. 35-22.
Perrella, Guido. Precision drill press. 3,682,562, 8-8-72, Cl. 408-234.000.
Perren, Stefan: *See—*
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Perrett, Brian Raymond, to British Aircraft Corporation Limited. Apparatus for signalling angular displacement. 3,648,042, 3-7-72, Cl. 235-189.
Perretta, Michael L.: *See—*
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Perri, Joseph, to Susquehanna Corporation, The. Apparatus for lining a hot top casing with insulating panels and ring. 3,675,304, 7-11-72, Cl. 29-238.
Perri, Joseph G., to Kidde, Walter, Constructors Incorporated. Modular high-rise structure. 3,638,380, 2-1-72, Cl. 52-236.
Perricone, Alphonse C.: *See—*
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Perrier, Augustin, to Manufactures Jean-Baptiste Martin, Andre Charbin & Cie. Guide bar control for knitting machines. 3,651,665, 3-28-72, Cl. 66-86.
Perrier, Augustin, to Manufactures Martin, Jean-Baptiste, —, Martin, Jean, — and Charbin, Andre, & Cie. Looms. 3,660,992, 5-9-72, Cl. 66-86.
Perrier, Augustin. Warp guide bar mechanism. 3,681,943, 8-8-72, Cl. 66-86.000.
Perrier, Jean Georges. Elevating apparatus. 3,637,099, 1-25-72, Cl. 214-660.
Perrin, Alfred J.; Dell John D.; Evans, David B.; and Lewis, George Stanley. Coiled tube banks. 3,677,339, 7-18-72, Cl. 165-162.000.
Perrin, Badger: *See—*
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Perrin, Dennis William: *See—*
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Perrin, Eugene M., to Westinghouse Electric Corporation. Thyristor gate pulse generator. 3,643,112, 2-15-72, Cl. 307-252.
Perrin, Gunter; and Pabinger, Gerhard, to Daimler-Benz Aktiengesellschaft. Viscosity coupling, especially for coupling a fan to its drive in an internal combustion engine. 3,688,884, 9-5-72, Cl. 192-58.00b.
Perrin, Jean-Louis: *See—*
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Perrin, Louis R.F.J. Soldering apparatus. 3,685,715, 8-22-72, Cl. 228-37.000.
Perrine, Walter E. Gas operated toggle action weapon. 3,661,049, 5-9-72, Cl. 89-189.000.
Perrine, Walter E. Lifting yoke. 3,679,107, 7-25-72, Cl. 224-5.00p.
Perrine, William F.: *See—*
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Perrinet, Paul Marie, to SEMIA S.A. Hot air generator with variable length conduit. 3,640,458, 2-8-72, Cl. 237-50.
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Perrino, Albert C.; and Israel, Michael G., to I.C.I./Organics Inc. Substituted $\beta\sim\beta'$-thio diethyl sulfones. 3,644,488, 2-22-72, Cl. 260-481.
Perrino, Albert C.; and Israel, Michael G., to I.C.I./Organics Inc. Polyamide obtained by reaction of a β,β-bis(alkylamino) diethyl sulfone and a dicarboxylic acid chloride. 3,676,406, 7-11-72, Cl. 260-78.00r.
Perrino, Albert C.; and Israel, Michael G. Polyureas obtained by reacting tolylene diisocyanate with a β, β-bis(alkylamino) diethyl sulfone. 3,687,902, 8-29-72, Cl. 260-77.5ch.
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Perry, Adolphus R., to Bendix Corporation, The. Control system for vehicles. 3,648,228, 3-7-72, Cl. 340-23.
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Perry, Charles B.; and Attermeyer, Lawrence A., to Cincinnati Milacron Inc. Machine tool with tool changing and transferring means. 3,650,018, 3-21-72, Cl. 29-568.
Perry, Charles C., to Vishay Intertechnology, Inc. Apparatus for visually demonstrating stress patterns in a photoelastic model. 3,651,584, 3-28-72, Cl. 35-19.
Perry, Charles C.; and De Villiers, Andre L., to Kelsey-Hayes Company. Skid control system. 3,663,069, 5-16-72, Cl. 303-21.
Perry, Dean A., to Allied Industrial Components. Automatic positioning accessory for numerical control machine tools. 3,684,939, 8-15-72, Cl. 318-468.000.
Perry, Donald S.: *See—*
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Perry, E Robert; and Gorin, Eugene, to I-T-E Imperial Corporation. Disconnect switch utilizing insulating base having integrally formed insulator bushings. 3,646,288, 2-29-72, Cl. 200-48.
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Perry, James L., to Union Carbide Corporation. Cryogenic storage apparatus. 3,698,589, 10-17-72, Cl. 220-14.000.
Perry, James R., Jr., to Collins Radio Company. J-K Flip-flop monostable multivibrator apparatus. 3,668,534, 6-6-72, Cl. 328-207.000.
Perry, James T., 1/2 to Philip H. Willkie. Pitcher's mound with toe block and reinforcing ribs. 3,703,285, 11-21-72, Cl. 273-25.000.
Perry, John E., to Horizons Research Incorporated. Scrap recovery process. 3,697,257, 10-10-72, Cl. 75-64.000.
Perry, Leo F.; and Puerner, Gale N., to AquaMatic, Inc. Motor-operated valve. 3,633,623, 1-11-72, Cl. 137-625.46.
Perry, Malcolm R.: *See—*
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Perry, Max W.; and Brockelsby, Norman D., to Dutton-Lainson Company. Valve construction. 3,648,728, 3-14-72, Cl. 137-525.
Perry, Max W.; and Brockelsby, Norman D., to Dutton-Lainson Company. Hand pump oiler. 3,664,556, 5-23-72, Cl. 222-385.
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Perry, Ralph S., to Texas Instruments, Incorporated. Computer memory system. 3,688,287, 8-29-72, Cl. 340-174.10e.
Perry, Richard F.: *See—*
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Perry, Robert Bruce, to Du Pont de Nemours, E. I., and Company. Absorption unit. 3,656,280, 4-18-72, Cl. 55-240.
Perry, Robert D. O.; and Markiewicz, Joseph F. Slitted resilient closure having substantially rigid cap. 3,693,843, 9-26-72, Cl. 222-212.000.
Perry, Robert E., to Kaiser Aluminum & Chemical Corporation. Panel assembly. 3,635,130, 1-18-72, Cl. 94-13.
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Perry, Thomas E., to Republic Steel Corporation. Apparatus for deslagging and degassing molten metal. 3,704,013, 11-28-72, Cl. 266-13.000.
Perry, Walter Merton, to Johns-Manville Corporation. Glass melting pot. 3,663,192, 5-16-72, Cl. 65-11.
Perry, Wesley G., to Damon Corporation. Snap-acting surgical lancet. 3,659,608, 5-2-72, Cl. 128-314.
Perry, William C.; Puttock, Eugene F.; and Schreiber, Ronald S., to Mallinckrodt Chemical Works. Agglomeration of phosphor materials prior to calcination to eliminate calcining in receptacles. 3,705,933, 12-12-72, Cl. 264-117.000.
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Persin, William J., to Baychem Corporation, mesne. Tread member and endless tracks made therefrom. 3,700,287, 10-24-72, Cl. 305-38.000.
Persinger, Laverne O.; and Persinger, Merle L., to Big Boy Manufacturing Co., Inc. Gas-operated barbecue grill. 3,667,449, 6-6-72, Cl. 126-41.00r.
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Person, Gustav B., to Dunn, W. E., Mfg. Co. Measuring length of wire fabric by counting only strands normal to direction of motion. 3,652,864, 3-28-72, Cl. 250-219.
Person, Paul L., to Catholic Press Society, Inc. Apparatus for stripping and cleaning backing plates or press saddles. 3,682,744, 8-8-72, Cl. 156-389.000.
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Persson, Erland K., to Electro-Craft Corporation. D.C. motor. 3,663,851, 5-16-72, Cl. 310-154.
Persson, Henry. Flute cleaner for twist drills. 3,667,080, 6-6-72, Cl. 15-236.000.
Persson, Henry. Mountable chip breaker and flute cleaner for rotating twist drills. 3,689,168, 9-5-72, Cl. 408-61.000.
Persson, Jan Edvard. Screw rotors. 3,640,649, 2-8-72, Cl. 418-191.
Persson, John A. Joining of prebaked electrodes. 3,705,947, 12-12-72, Cl. 13-18.000.
Persson, Leif R., to AB Billingsfors-Langed. Method of manufacturing a material similar to textile containing paper. 3,674,594, 7-4-72, Cl. 156-299.000.
Persson, Leif Ramon, to AB Billingsfors-Langed. Method of manufacturing a fabric-like material. 3,706,618, 12-19-72, Cl. 156-179.000.
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Persson, Per Ingemar, to Nitro Nobel AB. Method of armouring articles of metal. 3,663,723, 5-16-72, Cl. 156-179.000.
Persson, Sixten Ismael, to Luftkonditionering AB. Device for forced evacuation of air from kitchens. 3,691,931, 9-19-72, Cl. 98-115.00k.
Persson, Sverker P. E., to Research Corporation. Mushroom harvester. 3,635,005, 1-18-72, Cl. 56-327.
Perssons, Per Helge: *See—*
Abrahamsson, Set Ingvar; and Perssons, Per Helge, 3,702,138.
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Okorokov, Ivan Fedorovich; Bogdanov, Gorgy Porfirievich; Sorokin, Konstantin Alexandrovich; Onischenko, Anatoly Fedorovich; Ziborov, Pavel Efimovich; and Perstnev, Samuil Nisonovich, 3,705,559.
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Pertics, Emile E. Device for stemming fruit. 3,680,618, 8-1-72, Cl. 146-55.000.
Pertuit, John R. Electric cable connector. 3,693,138, 9-19-72, Cl. 337-213.00r.
Perucca, Vincenzo, to Olivetti, Ing. C., & C., S.p.A. High-speed printer. 3,675,753, 7-11-72, Cl. 197-18.000.
Perugini, Giancarlo; Mercato, Giorgio; Belotti, Luigi; and Caccamo, Carmelo, to Montecatini Edison S.p.A. Plasma-jet generator for versatile applications. 3,684,911, 8-15-72, Cl. 313-231.000.
Perun, William D.: *See—*
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Perusek, Ronald J.: *See—*
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Perusek, Ronald J., to General Electric Company. Traveling solvent method of growing silicon carbide crystals and junctions utilizing yttrium as the solvent. 3,669,763, 6-13-72, Cl. 148-171.000.
Peruski, Henry C. Threshing machine. 3,645,269, 2-29-72, Cl. 130-27.
Perusse, Ralph Edmond: *See—*
Treschitta, John Philip; and Perusse, Ralph Edmond, 3,681,719.
Perzo, Rene: *See—*
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Pesante, Manlio, to RIV-SKF Officine di Villar Perosa S.p.A. Speed control device. 3,672,100, 6-27-72, Cl. 51-165.770.
Pesce, Carl A.; and Osheff, Sheldon, to Continental Can Company, Inc. Can weld side-seam defect detector utilizing infrared detection means and collimator fiber optics. 3,633,031, 1-4-72, Cl. 250-83.3.
Pesch, Albert Tho: *See—*
Reiners, Walter; Pesch, Albert Tho; and Bungter, Karl, 3,693,379.

Pesch, Albert Tho; and Maassen, Wilhelm, to Reiners, Walter. Driver drum in yarn winding machines. 3,695,522, 10-3-72, Cl. 242-18.0dd.
Peschcke-Koedt, Andreas D. Merchandising structure. 3,655,061, 4-11-72, Cl. 211-57.
Peschcke-Koedt, Andreas D. Adjustable shower apparatus. 3,666,179, 5-30-72, Cl. 239-587.000.
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Peschel, Stanley G.: *See—*
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Peschel, Stanley G., to Hipotronics, Inc. Mechanically adjustable high voltage inductive reactor for series resonant testing. 3,703,692, 11-21-72, Cl. 336-134.000.
Peschke, John Ralph: *See—*
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Peschko, Norman Duffield, to Pennwalt Corporation. Polytetrafluoroethylene dispersion coatings containing ammonium chromate or ammonium chromate-ammonium phosphate mixture. 3,692,727, 9-19-72, Cl. 260-29.60f.
Peschl, Ervin; Malasek, Frantisek; and Kolar, Vladimir, 1/2% to Schlafhorst, W., & Co. and 1/2% to Vyzkumny Ustav Pletarsky. Warp knitting machine. 3,681,944, 8-8-72, Cl. 66-86.000.
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Peschl, Ervin, to Vyzkumny Ustav Pletarsky. Apparatus for controlling warp knitting latch needles. 3,702,547, 11-14-72, Cl. 66-86.000.
Pesci, Arturo. Method and apparatus for controlling the expansion and retraction of a telescopic cylinder assembly. 3,691,904, 9-19-72, Cl. 91-169.000.
Pescuma, Gerald F.; Durso, Alphonse J.; and Brown, Walter T., to General Products and Gear Co., Inc. Ignition lock. 3,665,738, 5-30-72, Cl. 70-211.
Peshkov, Evgeny Viktorovich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedin, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Jury Dmitrievich; Yasjukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny iktorovich, 3,654,756.
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Pesson, Marcel, to Societe Anonyme dite: Laboratoire Roger Bellon. 2,3-Dihydro-1,4-benzoxazines. 3,681,330, 8-1-72, Cl. 260-244.00r.
Pest, Jurgen, to General Electric Company. Circuit for supplying direct current to a telephone line. 3,649,769, 3-14-72, Cl. 179-77.
Pesterfield, Enos C., to Ciba-Geigy Corporation. Compositions and method for reducing blood pressure with 2-phenyl-2-(-1-naphthyl) acetamides. 3,689,672, 9-5-72, Cl. 424-324.000.
Pesterfield, Enos C., Jr.: *See—*
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Pestka, John A.; and Erickson, Lloyd A., to Illinois Tool Works Inc. Grommet type fastener. 3,701,302, 10-31-72, Cl. 85-80.000.
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Amadon, Roger M.; and Boren, Morris G., 3,690,895.
Petchell, Roy Kenneth: *See—*
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Pete, George H. Mine roof expansion shell assembly. 3,683,741, 8-15-72, Cl. 85-88.000.
Petelski, Nick, to Peerless Mfg. Co. Apparatus for manipulating load supporting member. 3,664,529, 5-23-72, Cl. 214-140.
Peter, Alfred O., to FMC Corporation. Truck tow conveyor switching apparatus. 3,699,895, 10-24-72, Cl. 104-88.000.
Peter, Eberhard P. H.: *See—*
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Peter, Erwin; and Oswald, Peter, to Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Mounting arrangement for metal fittings on profile frame members, walls, plates and the like. 3,684,229, 8-15-72, Cl. 248-223.000.
Peter, Fritz, to Hunt, Rodney, Company. Seal. 3,645,116, 2-29-72, Cl. 68-5.
Peter, Fritz, to Hunt, Rodney, Company. Apparatus for wet processing a continuous length of moving material. 3,656,325, 4-18-72, Cl. 68-3.
Peter, Fritz. Wet processing for a continuous length of moving material. 3,677,695, 7-18-72, Cl. 8-152.000.
Peter, Heinrich: *See—*
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,632,810.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,639,396.
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Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,686,172.
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Peter, Lothar: *See—*
Peter, Oskar E.; and Peter, Lothar, 3,679,247.
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Peter, Oskar E.; and Peter, Lothar, said Peter, Lothar assor. to said Peter, Oskar E. Hub-to-shaft clamp connection assembly. 3,679,247, 7-25-72, Cl. 287-52.060.
Peter, Peter, to Aktiengesellschaft Brown, Boveri & Cie. Pole coil structure for dynamo-electric machine. 3,681,634, 8-1-72, Cl. 310-218.000.
Peter, Richard: *See—*
Angliker, Hans-Joerg; and Peter, Richard, 3,632,565.
Hegar, Gert; Angliker, Hans-Joerg; and Peter, Richard, 3,635,940.
Montmollin, Rene de; Hoelzle, Gerd; Angliker, Hans-Joerg; and Peter, Richard, 3,642,764.
Peter, Richard; and Gallacchi, Erico, to Ciba Limited. Water-insoluble dyestuffs. 3,637,708, 1-25-72, Cl. 260-282.
Peter, Richard; Angliker, Hans-Joerg; and Della Casa, Angelo, to Ciba Limited. Anthraquinoid dyestuffs. 3,663,577, 5-16-72, Cl. 260-377.
Peter, Richard; and Angliker, Hans-Joerg, to Ciba-Geigy AG. Insoluble heterocyclic disazo dyes. 3,691,148, 9-12-72, Cl. 260-158.000.
Peter, Strong & Company, Inc.: *See—*
Hill, William H., 3,652,420.
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Peters & Company, Inc.: *See—*
Cummings, Gilbert A., 3,694,044.
Peters, Alfred; and Morelos, Salvador. Superfatted soap. 3,694,367, 9-26-72, Cl. 252-121.000.
Peters, Allen A. Apparatus and method for launching and recovering a small boat. 3,671,986, 6-27-72, Cl. 9-39.000.
Peters and Russell, Inc.: *See—*
Russell, Linus E., 3,636,288.
Peters, Arnis E.; and Miles, Lyle G., to National Cash Register Company, The. Microfiche reader. 3,634,005, 1-11-72, Cl. 353-101.
Peters, Arnis E., to Micro 8 Company, mesne. Microfilm viewer. 3,700,321, 10-24-72, Cl. 353-26.000.
Peter's Bag Corporation: *See—*
Grossman, Morris Gary, 3,654,003.
Peters, Charles L., to Box Innards, Inc. Machine for creating divider structures such as are used as internal partitions within a box. 3,685,401, 8-22-72, Cl. 93-37.00r.

Peters, Charles L., to Box Innards, Inc. Intermittent drive structure. 3,691,859, 9-19-72, Cl. 74-120.000.
Peters, Charles Michael Dansey. Energy supply apparatus and method for a building. 3,678,284, 7-18-72, Cl. 290-1.000.
Peters, Claudius, Aktiengesellschaft: *See*—
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Walkowiak, Paul, 3,662,961.
Peters, Edward M., to Radiation Research Corporation. Shaped articles from nylon-4. 3,686,066, 8-22-72, Cl. 161-150.000.
Peters, Edwin F.; and Juveland, Omar O., to Standard Oil Company (Indiana). Preparation of supported transition metal oxide polymerization catalysts. 3,671,432, 6-20-72, Cl. 252-46.
Peters, Ernest; and Mc Elroy, Roderick, to Canadian Patents and Development Limited. Chlorination of iron sulfides to produce ferric chloride and subsequent oxidation to produce iron oxide and chlorine. 3,652,219, 3-28-72, Cl. 23-200.
Peters, Eugene R.: *See*—
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Peters, Francis E.: *See*—
Chai, Hi D.; Mills, Stephen H.; Pawletko, Joseph P.; Peters, Francis E.; and Young, Carl T., 3,705,370.
Peters, Frank Groom; Sinclair, William Robert; and Sullivan, Miles Vincent, to Bell Telephone Laboratories, Incorporated. Technique for the preparation of iron oxide films by cathodic sputtering. 3,650,921, 3-21-72, Cl. 204-142.
Peters, Frank Groom; Sinclair, William Robert; and Sullivan, Miles Vincent, to Bell Telephone Laboratories, Incorporated. Technique for the preparation of iron oxide films by cathodic sputtering. 3,669,863, 6-13-72, Cl. 204-192.
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Peters, Homer D. F., to Owens-Illinois, Inc. Liquid flow proportioning system for metering into a glass batch. 3,705,792, 12-12-72, Cl. 65-134.000.
Peters, Ignatius G., to United States of America, Air Force. Mixed field radiation dosimeter materials of amine salts of organic acids. 3,673,107, 6-27-72, Cl. 252-408.000.
Peters, Jack; Williams, James E.; Murray, Ross; Stoliker, Lawrence F.; and Carlin, Patrick T. Board game apparatus. 3,658,337, 4-25-72, Cl. 273-134.
Peters, James G. Carrying device. 3,675,834, 7-11-72, Cl. 224-45.00t.
Peters, John E.; and Rollfinke, Fred J., to Chase Brass and Copper Company Incorporated. Metal composites. 3,669,634, 6-13-72, Cl. 29-182.1.
Peters, Joseph C.; and Ziermann, Hermann, to General Medical Corporation, mesne. Respirator with fluid amplifiers with fluid timer. 3,659,598, 5-2-72, Cl. 128-145.800.
Peters, Joseph, Jr.; and Feeney, Brian P. Pitch change limiting device for stringed musical instruments. 3,674,909, 7-4-72, Cl. 84-312.000.
Peters, Karl-Heinz; and Neeff, Rutger, to Farbenfabriken Bayer Aktiengesellschaft. Anthraquinone dyestuffs. 3,699,126, 10-17-72, Cl. 260-329.200.
Peters, Karl-Heinz; and Neeff, Rutger, to Farbenfabriken Bayer Aktiengesellschaft. 1,5-Bis-(2-nitro-anilino)-anthraquinone. 3,705,178, 12-5-72, Cl. 260-378.000.
Peters, Lovick A., Jr. Quick opening and closing line clamp. 3,634,912, 1-18-72, Cl. 24-132.
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Peters, Michael L.: *See*—
Pittman, Phillip D.; and Peters, Michael L., 3,696,541.
Peters, Norman J., to DEC International, Inc. Vat unloading and hoop filling apparatus for cheese curd. 3,662,464, 5-16-72, Cl. 31-46.
Peters, Norman J., to Dairy Equipment Company. Cheese making apparatus. 3,696,950, 10-10-72, Cl. 214-17.00d.
Peters, Pete P.: *See*—
Laval, Claude C., Jr.; and Peters, Pete P., 3,664,136.
Peters, Philip H., Jr.; and Wilbur, Donald A. Expandable bandwidth radar jammer. 3,699,575, 10-17-72, Cl. 343-18.00e.
Peters, Richard W.: *See*—
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Peters, Robert I., to Bigelow-Sanford, Inc. Cabled yarn. 3,690,056, 9-12-72, Cl. 57-139.000.
Peters, Robert L.; and Koch, Kenneth F., to United States of America, National Aeronautics and Space Administration. CRT blanking and brightness control circuit. 3,678,191, 7-18-72, Cl. 178-7.5.
Peters, Rudolph W. Pin cutter. 3,670,411, 6-20-72, Cl. 30-180.000.
Peters, Tex B., to Systron-Donner Corporation. Vibration transducer. 3,633,053, 1-4-72, Cl. 310-15.
Peters, Theodore F., to General Motors Corporation. Power operated control valve. 3,635,438, 1-18-72, Cl. 251-137.
Peters, Theodore F., to General Motors Corporation. Seat belt retractor. 3,695,545, 10-3-72, Cl. 242-107.400.
Peters, Theodore Richmond, to Bell Telephone Laboratories, Incorporated. Controlled pause in data processing apparatus. 3,678,463, 7-18-72, Cl. 340-172.500.
Peters, Theodore Richmond, to Bell Telephone Laboratories, Incorporated. Controlled pause and restart of magnetic disc memories and the like. 3,678,464, 7-18-72, Cl. 340-172.500.
Peters, Theodore Richmond, to Bell Telephone Laboratories, Incorporated. Priority access system. 3,701,109, 10-24-72, Cl. 340-172.500.
Peters, Thomas E., to GTE Laboratories Incorporated. Alakaline earth thiogallate phosphors. 3,639,254, 2-1-72, Cl. 252-301.4.
Peters, Thomas E., to Pope & Talbot, Inc. Manufacture of products from comminuted wood. 3,649,397, 3-14-72, Cl. 156-62.2.
Peters, Till J. N.; and Powers, John A., to Sylvania Electric Products, Inc. Process for producing sodium tungsten bronzes. 3,652,462, 3-28-72, Cl. 252-518.
Peters, Timothy Victor. Processes of producing stable filaments of linear polyurethanes. 3,699,205, 10-17-72, Cl. 264-210.00f.
Peters, Virgil N. Method of making nylon monofilament sinking fishing leader. 3,676,237, 7-11-72, Cl. 154-2.000.
Peters, Werner: *See*—
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Peters, Werner; Luther, Horst; Langhoff, Josef; Abel, Otto; and Schmeling, Gerhard, to Bergwerksverband GmbH. Apparatus for carbonizing carbonaceous materials with direct contact heat exchange material. 3,661,722, 5-9-72, Cl. 202-99.
Petersen, Alex, to Danfoss A/S. Toothed wheel machine. 3,690,792, 9-12-72, Cl. 418-61.000.
Petersen, Arne J.; and Matsuyama, George, to Beckman Instruments, Inc. Solid state glass electrode. 3,649,506, 3-14-72, Cl. 204-195.
Petersen, Christian C., to Polaroid Corporation. Tape recording apparatus and system having a very thin cassette. 3,691,312, 9-12-72, Cl. 179-100.20z.
Petersen, Earl L. Adjustable easel. 3,682,433, 8-8-72, Cl. 248-459.000.
Petersen, George R., to Bowman, P. H., Company, Inc. Method of fabricating wood trusses. 3,673,671, 7-4-72, Cl. 29-432.200.
Petersen, Gerd Hugo. Apparatus for agglomerating and precipitating suspended matter out of gases and vapours and/or for absorbing gas components. 3,653,187, 4-4-72, Cl. 55-230.
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Petersen, Harro; Renner, Klaus-Christian; and Diem, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of hydroxyethylenecarbamate ethers. 3,639,455, 2-1-72, Cl. 260-482.
Petersen, Harro; and Renner, Klaus-Christian, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 2-Oxo-hexahydropyrimidyl-N,N'-alkanoic acids. 3,652,563, 3-28-72, Cl. 260-251.
Petersen, Harro; and Reuther, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of ureidomethylphosphonium salts. 3,658,804, 4-25-72, Cl. 260-244.
Petersen, Harro, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 1,3,4-diazaphospholanes. 3,673,248, 6-27-72, Cl. 260-543.0pn.
Petersen, Harro, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of gamma-aminoalkylureas. 3,684,811, 8-15-72, Cl. 260-256.40c.
Petersen, Harro, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of ureidomethylphosphonyl halides. 3,699,102, 10-17-72, Cl. 260-251.00p.
Petersen, John Valdemar Brammer, to Niels Clauson-Kaas. Substituted quaternary pyridinium salts and method of manufacturing them. 3,658,826, 4-25-72, Cl. 260-294.9.
Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, to Geigy Chemical Corporation. Method for preparing 3-hydroxy-2-imino-1 (2H)-pyridine-sulfonic acid monohydrate. 3,663,555, 5-16-72, Cl. 260-294.8.
Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, to Geigy Chemical Corporation. Method for preparing alkali metal salts of 3-hydroxy-2-oxo-1(2H)-pyridine-sulfonic acid. 3,663,556, 5-16-72, Cl. 260-294.8.
Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, to Ciba-Geigy Corporation. Process for the preparation of 2-amino-3-pyridinol. 3,706,753, 12-19-72, Cl. 260-296.00r.
Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, to Ciba-Geigy Corporation. Method for preparing 2,3-pyridinediol. 3,706,754, 12-19-72, Cl. 260-297.00r.
Petersen, Jorgen Hartvig: *See*—
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Petersen, Jorgen Hartvig; and Hansen, Gunnar Lyshoj, to Danfoss A/S. Equipment for delivering liquid, particularly oil-burners. 3,635,604, 1-18-72, Cl. 417-304.
Petersen, Jorgen Hartvig, to Danfoss A/S. Rotary seal, particularly for oil pumps. 3,655,205, 4-11-72, Cl. 277-87.

Petersen, Jorgen Hartvig; and Sturlason, Leif Viggo, to Danfoss A/S. Atomizing nozzle, particularly for oil-burners. 3,669,419, 6-13-72, Cl. 239-544.000.

Petersen, Jorgen Hartvig; and Madsen, Ingvard Mosby, to Danfoss A/S. Liquid pump, particularly a fuel-oil pump. 3,685,927, 8-22-72, Cl. 418-15.000.

Petersen, Jorgen Hartvig; and Madsen, Ingvard Mosby, to Danfoss A/S. Pressure-regulating and cut-off valve for fuel-oil pumps. 3,687,154, 8-29-72, Cl. 137-116.000.

Petersen, Niel R., to MTS Systems Corporation. Servovalve with accumulator means on drain cavities. 3,680,594, 8-1-72, Cl. 137-625.690.

Petersen, Niel R., to MTS Systems Corporation. Four square test device with torque stabilization. 3,690,168, 9-12-72, Cl. 73-162.000.

Petersen, Otto: *See—*
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Petersen, Paul S.: *See—*
Novak, Ronald D.; and Petersen, Paul S., 3,691,900.

Petersen, Paul S., to Sports Technology, Inc. Heel binding. 3,659,866, 5-2-72, Cl. 280-11.35.

Petersen, Povl Viggo; and Ammitzboll, Thorkil, to Kefalas A/S. α-Isomer of the decanoic acid ester of 10-[3-(4-hydroxyethyl-1-piperazinyl)propylidene]-2-trifluoromethyl thiaxanthene, acid addition salts thereof, method of use and compositions. 3,681,346, 8-1-72, Cl. 260-240.0tc.

Petersen, Richard D.: *See—*
Bertolacini, Ralph J.; and Petersen, Richard D., 3,707,460.

Petersen, Richard D.; and Kozinski, Allen A., to Standard Oil Company (Indiana). Platinum reforming with a mordenite containing support using two reactors. 3,664,949, 5-23-72, Cl. 208-65.

Petersen, Richard E.: *See—*
Wisotzky, Reuben; and Petersen, Richard E., 3,695,987.
Wisotzky, Reuben; and Petersen, Richard E., 3,698,973.

Petersen, Robert E. A., to Du Pont de Nemours, E. I., and Company. Ethylene copolymerization process. 3,637,616, 1-25-72, Cl. 260-80.78.

Petersen, Robert E. A., to Du Pont de Nemours, E. I., and Company. Control system for an ethylene copolymerization process. 3,691,142, 9-12-72, Cl. 260-80.780.

Petersen, Ross. Tablet press. 3,704,976, 12-5-72, Cl. 425-352.000.

Petersen, Ross K. Cleaner. 3,670,480, 6-20-72, Cl. 55-430.000.

Petersen, Siegfried: *See—*
Kabbe, Hans Joachim; Horstmann, Harald; Plumpe, Hans; Puls, Walter; and Petersen, Siegfried, 3,689,674.
Kiehne, Hartmut; and Petersen, Siegfried, 3,658,838.
Kiehne, Hartmut; Petersen, Siegfried; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,658,839.
Liebe, Werner; Petersen, Siegfried; and von Konig, Anita, 3,671,242.

Petersen, Svend Aage: *See—*
Genson, Samuel Richard; Petersen, Svend Aage; and Currier, Robert Lee, 3,695,523.

Petersen, Tom Kastrup: *See—*
Jensen, Arne; and Petersen, Tom Kastrup, 3,691,439.

Petersen, Tom Kastrup; and Henriksen, Neils Juul, to Danfoss A/S. Reverse voltage circuit for thyristors. 3,701,939, 10-31-72, Cl. 321-45.00r.

Petersen, Ulrich; Von Chiari, Ernst; and Brutsch, Wilhelm, to Mannesmann Aktiengesellschaft. Method for producing seamless tubes with small diameters. 3,661,005, 5-9-72, Cl. 72-206.

Petersen, Ulrich; and Grandin, Friedrich-Hans, to Mannesmann Aktiengesellschaft. Method of rolling hollow stock. 3,673,836, 7-4-72, Cl. 72-78.000.

Petersen, Ulrich, to Mannesmann Aktiengesellschaft. Continuous casting machine. 3,700,027, 10-24-72, Cl. 164-282.000.

Petersen, Victor, to General Motors Corporation. Cylinder head gasket assembly. 3,664,676, 5-23-72, Cl. 277-166.000.

Petersen, Walter A., to Tektronix, Inc. Graphic display system. 3,637,997, 1-25-72, Cl. 235-92.

Petersen, Walter A., to International Nickel Company, Inc., The. Welding electrode for joining copper-nickel alloys. 3,686,027, 8-22-72, Cl. 117-205.000.

Petersen, William H., to Shell Oil Company. Method and apparatus for connecting flowlines to underwater wellheads. 3,695,350, 10-3-72, Cl. 166-.500.

Peterson, Adolph A., III: *See—*
Richardson, Dean E.; Peterson, Adolph A., III; and Brady, Harold P., Jr., 3,701,742.

Peterson, Adolphe C. Compound reaction propulsion means with multiple thrust. 3,643,439, 2-22-72, Cl. 60-225.

Peterson, Adolphe C. Aircraft structure unit and wing structure. 3,662,974, 5-16-72, Cl. 244-46.

Peterson, Adolphe C. Generating systems and methods. 3,706,288, 12-19-72, Cl. 110-10.000.

Peterson, Anders A., to Hardinge Brothers, Inc. Adjustment for tool holders. 3,641,850, 2-15-72, Cl. 82-36.

Peterson, Anders Adolf: *See—*
Parsons, Hubert J.; and Peterson, Anders Adolf, 3,656,772.

Peterson, Arnold E., to Peterson Baby Products. Reclining car seat. 3,669,492, 6-13-72, Cl. 297-253.000.

Peterson, Arnold Ivanovich: *See—*
Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov Nikolai Nikolaevich; Purmalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and rits, Leonid Borisovich, 3,683,683.

Peterson Baby Products: *See—*
Peterson, Arnold E., 3,669,492.

Peterson, Billy L. Route changing device especially for a supported type monorail system. 3,635,166, 1-18-72, Cl. 104-130.

Peterson, C. Lynn; and Peterson, Clarence John, to Peterson Filters & Engineering Company. Filter assembly with filtrate flow control and control components. 3,659,716, 5-2-72, Cl. 210-247.

Peterson, Carl, to Foster-Miller Associates, Inc. Trencher-scraper machine. 3,690,023, 9-12-72, Cl. 37-90.000.

Peterson, Carl A. Apparatus and method for injection and dissemination of dry fly ash in mine voids. 3,684,022, 8-15-72, Cl. 169-2.00r.

Peterson, Carl G.: *See—*
Homstead, Robert H.; Peterson, Carl G.; and Gomez, Anthony, 3,653,569.

Peterson, Carl G., Co.: *See—*
Homstead, Robert H.; Peterson, Carl G.; and Gomez, Anthony, 3,653,569.

Peterson, Carl L., to GTE Sylvania Incorporated. High pressure electric discharge lamp. 3,706,898, 12-19-72, Cl. 313-197.000.

Peterson, Carlton G., to Lockheed Aircraft Corporation. Foldable load bearing mechanism and actuating device. 3,654,811, 4-11-72, Cl. 74-101.

Peterson, Charles L., to Uarco Incorporated. Burster with interrupted drive. 3,672,551, 6-27-72, Cl. 225-100.000.

Peterson, Clarence John: *See—*
Peterson, C. Lynn; and Peterson, Clarence John, 3,659,716.

Peterson, David D., to General Electric Company. Particle track etching method. 3,673,017, 6-27-72, Cl. 156-7.000.

Peterson, David L.; and Cole, Clifford M. Apparatus for separating an oil slick from a large body of water. 3,661,263, 5-9-72, Cl. 210-242.

Peterson, David L.; and Cole, Clifford M. Log boom system for sweeping oil slicks from a large body of water. 3,661,264, 5-9-72, Cl. 210-242.

Peterson, David W., to General Motors Corporation. Self-purging lubricant reservoir. 3,662,858, 5-16-72, Cl. 184-103.00r.

Peterson, Dean M., to Honeywell Inc. Dual slide method and apparatus to provide simultaneous automatic cuing and showing of slides. 3,635,550, 1-18-72, Cl. 353-21.

Peterson, Donald E.: *See—*
Haupt, Robert C.; and Peterson, Donald E., 3,643,976.

Peterson, Donald J., to Procter & Gamble Company, The. Alkylthiomethyl phosphonium derivatives. 3,646,219, 2-29-72, Cl. 260-606.5.

Peterson, Donald J., to Procter & Gamble Company, The. Process for the preparation of olefins using carbonyl compounds and silyl-substituted organometallic compounds. 3,657,373, 4-18-72, Cl. 260-677.

Peterson, Donald L.: *See—*
Kooy, Elmer D.; and Peterson, Donald L., 3,705,410.

Peterson, Donald W., to General Motors Corporation. Windshield wiper blade having horizontal path. 3,688,334, 9-5-72, Cl. 15-250.210.

Peterson, Donald William, to RCA Corporation. Combined VHF-UHF dipole antenna array. 3,653,056, 3-28-72, Cl. 343-795.

Peterson, Donovan F. Direct current motor having improved commutation means. 3,678,359, 7-18-72, Cl. 318-254.000.

Peterson, Earl A.: *See—*
Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,648,858.
Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,675,900.

Peterson, Earl A. Positive engagement clutch. 3,701,403, 10-31-72, Cl. 192-38.000.

Peterson, Earl C. Sewage treatment. 3,647,667, 3-7-72, Cl. 204-299.

Peterson, Earl C. System for prevention of frost heaves in highways. 3,649,513, 3-14-72, Cl. 204-299.

Peterson, Edward C.: *See—*
Blatchford, John K.; Peterson, Edward C.; and Burda, Jan C., 3,679,473.
Blatchford, John K.; Peterson, Edward C.; and Burda, Jan C., 3,694,627.

Peterson, Edwin F. Corebox and seal. 3,661,197, 5-9-72, Cl. 164-228.000.

Peterson, Edwin R. Electric power takeoff system. 3,660,671, 5-2-72, Cl. 290-1.

Peterson, Eugene W.: *See—*
Buller, Joseph S.; Nagy, Michael J.; and Peterson, Eugene W., 3,640,091.
Peterson Filters & Engineering Company: *See—*
Peterson, C. Lynn; and Peterson, Clarence John, 3,659,716.
Peterson, Francis C., to Hager, C., & Sons Hinge Manufacturing Company. Hinge. 3,657,766, 4-25-72, Cl. 16-182.000.
Peterson, Francis C., to Hager, C., & Sons, Hinge Manufacturing Company. Hinge with means for conducting electricity therethrough. 3,659,063, 4-25-72, Cl. 200-61.7.
Peterson, Francis C., to Hager, C., & Sons Hinge Manufacturing Company. Closet construction. 3,702,521, 11-14-72, Cl. 52-36.000.
Peterson, Fred D., to Peterson Products of San Mateo Inc. Jet engine cowl cover. 3,646,980, 3-7-72, Cl. 150-52.
Peterson, Fred D., to Peterson Products of San Mateo, Inc. Burial urn. 3,654,675, 4-11-72, Cl. 27-1.
Peterson, Gary E., to Frey, Gerald J., mesne. Automatic slide-changing mechanism. 3,632,199, 1-4-72, Cl. 353-103.
Peterson, George Earl: *See—*
Glass, Alastair Malcolm; and Peterson, George Earl, 3,700,912.
Glass, Alastair Malcolm; and Peterson, George Earl, 3,703,328.
Peterson, Gerald D. Internal vent for window sash. 3,636,660, 1-25-72, Cl. 49-408.
Peterson, Gerald H. Impact kinetic energy absorber with automatic reset. 3,659,835, 5-2-72, Cl. 267-136.
Peterson, Gerald Henry, to Bell Telephone Laboratories, Incorporated. Coin telephone non-coin service. 3,676,597, 7-11-72, Cl. 179-6.30r.
Peterson, Henry J.: *See—*
Vanderwerff, William D.; and Peterson, Henry J., 3,637,830.
Peterson, Henry W.: *See—*
Wyzalek, Leonard J.; and Peterson, Henry W., 3,698,476.
Peterson, Hold Le Roy: *See—*
Ball, Henry; and Peterson, Hold Le Roy, 3,647,952.
Peterson, James W.; and Tempka, John A., to Motorola, Inc. Data transferring system utilizing a monitor channel and logic circuitry to assure secure data communication. 3,696,210, 10-3-72, Cl. 179-15.0bf.
Peterson, James W.; and Tempka, John A., to Motorola, Inc. Data transferring system utilizing frame and bit timing recovery technique. 3,702,379, 11-7-72, Cl. 179-15.0bs.
Peterson, John A.: *See—*
Grotheer, Morris P.; and Peterson, John A., 3,632,444.
Peterson, John A.; and Marciniak, Harry W., to Hooker Chemical Corporation. Ammonium hexafluoroferrate as a fire retardant additives. 3,634,311, 1-11-72, Cl. 260-41.5.
Peterson, John A.; and Ross, Albert H., to Hooker Chemical Corporation. Sodium chlorate compositions of reduced fire hazard containing an alkali metal silicate fire retardant. 3,645,895, 2-29-72, Cl. 252-8.1.
Peterson, John A., to Hooker Chemical Corporation. Production of phosphates. 3,655,335, 4-11-72, Cl. 23-107.
Peterson, John B., to Grace, W. R., & Co. Cold storage temperature monitor. 3,701,282, 10-31-72, Cl. 73-358.000.
Peterson, John E.: *See—*
Ringel, Samuel Morris; Roemer, Sidney; Gutt, Ann Lee; and Peterson, John E., 3,651,216.
Peterson, John L., to Teletype Corporation. Variable length storing device. 3,691,536, 9-12-72, Cl. 340-173.0rc.
Peterson, John M.: *See—*
Girard, Peter F.; and Peterson, John M., 3,675,582.
Peterson, John Merriam: *See—*
Hall, William Cornelius; and Peterson, John Merriam, 3,645,916.
Peterson, John O. H., to Scott Paper Company. Photographic medium containing an aliphatic amine stabilizer. 3,637,390, 1-25-72, Cl. 96-90.
Peterson, Joseph R.: *See—*
Baybarz, Russell D.; and Peterson, Joseph R., 3,640,888.
Peterson, Julius T.: *See—*
Reque, Albert K.; and Peterson, Julius T., 3,667,259.
Peterson, Laurence I.; and Sauro, Louisa J., to Dow Chemical Company, The. Copolymers of β-lactones and N-phenethylaziridines. 3,642,717, 2-15-72, Cl. 260-78.3.
Peterson, Laurence I.; and Sauro, Louisa J., to Dow Chemical Company, The. Copolymers of N-(2-cyanoethyl) aziridines and β-lactones. 3,642,860, 2-15-72, Cl. 260-465.4.
Peterson, Laurence I., to Dow Chemical Company, The. Preparation of ynamines and phenylacetamides. 3,657,342, 4-18-72, Cl. 260-558.
Peterson, Laurence I., to Dow Chemical Company, The. Preparation of ynamines and phenylacetamides. 3,657,343, 4-18-72, Cl. 260-558.
Peterson, Laurence I., to Dow Chemical Company, The. Oxidation of phenylacetonitrile derivatives employing a copper(II)-amine catalyst system. 3,679,671, 7-25-72, Cl. 260-240.00d.
Peterson, Lawrence M., to Barber-Colman Company. Butterfly damper. 3,669,152, 6-13-72, Cl. 138-46.000.
Peterson, Le Roy L., to Kimberly-Clark Corporation. Papermaking drainage fabric and stock inlet combination for producing even edged paper web. 3,652,390, 3-28-72, Cl. 162-303.
Peterson, Leslie D., to Raven Industries, Inc. Spinning top and target game. 3,680,864, 8-1-72, Cl. 273-110.000.
Peterson, Leslie R., to DeZurik Corporation. Valve seat retaining means and method of assembly and disassembly. 3,656,714, 4-18-72, Cl. 251-360.
Peterson, Lowell E.; and Elmquist, Lyle F., to General Mills, Inc. Method of treating cellulose sponges and resulting products. 3,649,331, 3-14-72, Cl. 117-37.
Peterson, Martin E. Integral interlocking weather stripping for doors, door jambs and thresholds. 3,634,962, 1-18-72, Cl. 49-383.
Peterson, Marvin A.; and Flint, Gerald A., to Beatrice Foods Co. Flavor-stable mustard. 3,652,297, 3-28-72, Cl. 99-140.
Peterson, Marvin A., to General Electric Company. Process for producing polyamide coating materials by endcapping. 3,652,500, 3-28-72, Cl. 260-65.
Peterson, Marvin A., to General Electric Company. Process for producing polyamide coating materials. 3,663,510, 5-16-72, Cl. 260-65.
Peterson, Marvin L., to Du Pont de Nemours, E. I., and Company. Gelled acidic compositions. 3,635,835, 1-18-72, Cl. 252-315.
Peterson, Marvin L., to Du Pont de Nemours, E. I., and Company. Manufacture of acrylamide-based polymers in liquid ammonia. 3,681,215, 8-1-72, Cl. 204-159.230.
Peterson, Max E., to Collins Radio Company. Proportional digital control for radio frequency synthesizers. 3,665,323, 5-23-72, Cl. 328-14.000.
Peterson, Neil W. Eyelet for track driven vehicle. 3,690,741, 9-12-72, Cl. 305-38.000.
Peterson, Noel C.: *See—*
Brooks, Charles G.; and Peterson, Noel C., 3,638,226.
Peterson, Norman L.: *See—*
Haker, Edwin J.; and Peterson, Norman L., 3,693,838.
Peterson, Olav, to Northern Electric Company Limited. Voltage controlled attenuator. 3,663,900, 5-16-72, Cl. 333-81.00r.
Peterson, Oliver H., to Salsbury Laboratories. Method of controlling odor. 3,706,663, 12-19-72, Cl. 210-64.000.
Peterson, Orrin Martel: *See—*
Hardy, Paul Wilson; and Peterson, Orrin Martel, 3,689,611.
Peterson, Paul E.: *See—*
Muratore, John B.; and Peterson, Paul E., 3,649,093.
Peterson, Philip R.; Wind, Robert H.; and Mark, Douglas E., to General Motors Corporation. Anti-lock brake control with sensor monitoring circuit. 3,680,923, 8-1-72, Cl. 303-21.0af.
Peterson Products of San Mateo Inc.: *See—*
Peterson, Fred D., 3,646,980.
Peterson, Fred D., 3,654,675.
Peterson, Ralph, to United States of America, Army. Base ejecting projectile. 3,677,182, 7-18-72, Cl. 102-66.000.
Peterson, Ralph M., to Peterson-Kruse, Inc. Power operated can opener. 3,698,084, 10-17-72, Cl. 30-4.00r.
Peterson, Reeve D., to United States of America, Navy. Ground station system for retransmitting satellite facsimile signals over digital data links. 3,678,388, 7-18-72, Cl. 325-4.000.
Peterson, Rehn Claus; St. Denis, Robert Alexander; and Steckel, Douglas Thomas, to Harris-Intertype Corporation. Stuffing machine for assembling newspapers or the like. 3,663,008, 5-16-72, Cl. 270-55.
Peterson, Rex W. Valve shock dampener. 3,695,241, 10-3-72, Cl. 123-90.450.
Peterson, Richard G., to United States of America, Air Force. Expulsion tank collector plate. 3,656,662, 4-18-72, Cl. 222-386.5.
Peterson, Richard H.; Finch, Robert A.; and Oltman, Bruce A. Electronic player system for electrically operated musical instruments. 3,683,096, 8-8-72, Cl. 84-115.000.
Peterson, Richard H. Electrically operated rhythm instrument. 3,688,627, 9-5-72, Cl. 84-171.000.
Peterson, Richard J.: *See—*
Mosier, John L.; and Peterson, Richard J., 3,680,032.
Peterson, Robert A.: *See—*
Davies, James M.; Hackmann, Larry G.; Peterson, Robert A.; Smith, Roger M.; and Wirt, Leon A., 3,659,654.
Peterson, Robert A., to Caterpillar Tractor Company. Mounting arrangement for bulldozer blades. 3,631,930, 1-4-72, Cl. 172-804.
Peterson, Robert A., to Caterpillar Tractor Company. Loader with improved stability and increased reach. 3,658,202, 4-25-72, Cl. 214-770.000.
Peterson, Robert A.; Grooss, Frank A.; Morgan, William C.; Stedman, Robert N.; and Teasdale, Max J., to Caterpillar Tractor Company. Side-by-side tractor combination. 3,661,214, 5-9-72, Cl. 172-801.
Peterson, Robert A., to Caterpillar Tractor Company. Method of operating a scraper having a manipulatable apron. 3,707,048, 12-26-72, Cl. 37-126.0ab.
Peterson, Robert L.; and Wieman, Paul R., to Mattel, Inc. Musical instrument with variable amplitude. 3,657,459, 4-18-72, Cl. 84-1.01.

Peterson, Robert S., to Westinghouse Electric Corporation. Synchronous motor field regulator control. 3,686,551, 8-22-72, Cl. 318-174.000.

Peterson, Robert S., to Westinghouse Electric Corporation. Synchronous motor field regulator control. 3,686,552, 8-22-72, Cl. 318-174.000.

Peterson, Robert W.: *See—*
Cooper, Lawrence E.; and Peterson, Robert W., 3,651,436.
Miller, James R., III; and Peterson, Robert W., 3,633,402.

Peterson, Rodney E.: *See—*
Carr, Norman L.; and Peterson, Rodney E., 3,646,106.

Peterson, Roger L., to Dynatherm Corporation. Water based fire protective composition applied to electrical cable. 3,642,531, 2-15-72, Cl. 117-218.

Peterson, Rudolph A.: *See—*
Walker, Lloyd A.; and Peterson, Rudolph A., 3,663,148.

Peterson, Rudolph G.: *See—*
Abrams, Paul S.; and Peterson, Rudolph G., 3,653,596.
Abrams, Paul S.; and Peterson, Rudolph G., 3,695,216.

Peterson, Russell I., Jr.; and Sauter, William E., to Cumberland Engineering Company Inc. Incinerator system. 3,635,175, 1-18-72, Cl. 110-8.

Peterson, Russell I., Jr., to Cumberland Engineering Company, Inc. Material cutting machine and sound absorbing hood therefor. 3,643,880, 2-22-72, Cl. 241-100.

Peterson, Scren E. Potato-seed cutting machines. 3,688,828, 9-5-72, Cl. 146-164.000.

Peterson, Sven Torsten Lennart, to Lumalampan Aktiebolag. High density tungsten-rhenium-nickel alloys and articles. 3,638,293, 2-1-72, Cl. 29-182.

Peterson, Thomas D.; and Crosser, Ralph W., Jr., to Kennecott Copper Corporation. Apparatus for uncoupling railroad cars. 3,682,325, 8-8-72, Cl. 213-211.000.

Peterson, Victor S.; and Gnecco, Arthur J. Thaw sensor. 3,696,679, 10-10-72, Cl. 73-358.000.

Peterson, Weldon H.: *See—*
Twilley, Ian C.; Russell, William N.; and Peterson, Weldon H., 3,704,100.

Peterson, Wendell C. Ultrasonic cleaner and surgical instrument case. 3,640,295, 2-8-72, Cl. 134-159.

Peterson, Wesley D.; and Southworth, Donovan A., to Collins Radio Company. Rugged, narrow bandwidth mechanical filter. 3,699,483, 10-17-72, Cl. 333-71.000.

Peterson, William H., to Pullman Incorporated. Pressure relief means for a hydraulic cushion. 3,633,763, 1-11-72, Cl. 213-43.

Peterson, William H., to Pullman Incorporated. Railroad car speed control mechanism. 3,660,653, 5-2-72, Cl. 246-182.

Peterson, William H., to Pullman Incorporated. Cushioning arrangement for railway car. 3,679,068, 7-25-72, Cl. 213-8.000.

Peterson, William H., to Pullman Incorporated. Vehicle speed control device actuating mechanism. 3,707,124, 12-26-72, Cl. 104-26.00r.

Peterson, William R., Jr.: *See—*
Sollott, Gilbert P.; and Peterson, William R., Jr., 3,673,015.

Peterson-Kruse, Inc.: *See—*
Peterson, Ralph M., 3,698,084.

Petersson, John Soren: *See—*
Hansen, Knut Bonde; and Petersson, John Soren, 3,659,940.

Petersson, Nils Gustav Tage. Device for use in painting a columnar structure. 3,633,539, 1-11-72, Cl. 118-208.

Petersson, Rolf: *See—*
Larkfeldt, Birger; and Petersson, Rolf, 3,693,530.

Petesson, Curt Y. G.; and Widolf, Goran A. Splint for the treatment of fractured legs. 3,661,150, 5-9-72, Cl. 128-85.

Petfoods Limited: *See—*
Hornsby, John M.; and Wood, William G., 3,650,387.

Peth, Horst: *See—*
Illetschko, Gerhard; and Peth, Horst, 3,646,254.

Petigara, Ramesh: *See—*
Yale, Harry Louis; and Petigara, Ramesh, 3,676,445.

Petigara, Remesh: *See—*
Yale, Harry Louis; and Petigara, Remesh, 3,702,852.

Petit, George S.: *See—*
Wright, Ralph R.; Petit, George S.; and Wright, Calvin C., 3,666,529.

Petit, George S.; and Wright, Ralph R., to United States of America, Atomic Energy Commission. Process for plating uranium with metal. 3,668,084, 6-6-72, Cl. 204-1.500.

Petit, George S.; and Kienberger, Charles A., to United States of America, Atomic Energy Commission. Method for preparing stable actinide peroxide sols. 3,697,441, 10-10-72, Cl. 252-301.10s.

Petit, Gerard; and Bricard, Pierre, to Centre National d'Etudes Spatiales. Sampling methods and devices, more particularly for analog-digital conversions. 3,706,986, 12-19-72, Cl. 340-347.0ad.

Petit, Maurice; and Thomas, Georges, to Ets J. J. Carnaud & Forges de Basse-Indre. Sterilisation of tins. 3,704,140, 11-28-72, Cl. 99-214.000.

Petit, Robert, to Societe Nouvelle Spidem. Cooling apparatus for continuous casting wheel. 3,650,316, 3-21-72, Cl. 164-278.

Petit, Robert, to Societe Nouvelle Spidem. Apparatus for guiding a product undergoing transformation, and the use thereof in a wire mill. 3,651,674, 3-28-72, Cl. 72-5.

Petit, Robert, to Societe Nouvelle Spidem. Cooling device for a continuous casting wheel. 3,667,537, 6-6-72, Cl. 164-278.000.

Petit, Robert. Continuous casting machine with controlled extractor movement. 3,695,342, 10-3-72, Cl. 164-268.000.

Petit, Robert F.; and Wesnoskie, James F., to Teledyne, Inc., mesne. Work table having multiposition extension board. 3,672,312, 6-27-72, Cl. 108-69.000.

Petit, Roland; Louise, Jean; Parent, Jean-Claude; and Hay, Leon, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method of purifying gaseous mixtures. 3,689,212, 9-5-72, Cl. 423-239.000.

Petite, Anthony M.; and Thornley, Clive E., to Ciba-Geigy Corporation. Dyeing of polycarbonamides of bis (paraamino-cyclohexyl) methane and dodecanedioic acid with anionic dyes. 3,700,405, 10-24-72, Cl. 8-173.000.

Petitjean, Elie Raymond, to Comptior de la Filtration Cofi. Tubular filter with resilient deformable support. 3,633,753, 1-11-72, Cl. 210-356.

Petitjean, Robert J.: *See—*
Christensen, Paul M.; and Petitjean, Robert J., 3,639,715.

Petix, Edward. Replaceable electrochemical cell module. 3,682,705, 8-8-72, Cl. 136-86.00r.

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Petkov, Milko Ivanov: *See—*
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Pfluger, Helmut, to Traub GmbH, Firma. Device for securing a body to another body. 3,633,949, 1-11-72, Cl. 287-20.3.
Pfluger, Rudolf, to Rubo Vertriebsgesellschaft m.b.H. Process and apparatus for the continuous manufacture of profiled glass bars. 3,660,066, 5-2-72, Cl. 65-94.
Pflugfelder, Bernard, to Societe Nationale des Petroles d'Aquitaine. Controlling nematodes with N-carbamyl 1-2-imino-1,3-oxathiolanes. 3,639,610, 2-1-72, Cl. 424-276.
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Phelps, Harold E., to Phelps, Harold, Inc. Fuel supply system. 3,642,256, 2-15-72, Cl. 261-39.
Phelps, Harold E., to Phelps, Harold, Inc. Carburetor. 3,675,907, 7-11-72, Cl. 261-39.000.
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Phelps, Rex V., to Warren Petroleum Corporation. Multicylinder vessel for transportation of fluids. 3,640,237, 2-8-72, Cl. 114-16.
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Phelps, Weldon L.; and Smith, Kerwyn B., to Caterpillar Tractor Company. Fast acting solid state circuit breaker. 3,654,518, 4-4-72, Cl. 317-33.
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Philip, Derek A. Method of coating particles by rotating a fluidized bed of the particles. 3,687,717, 8-29-72, Cl. 117-100.00a.
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Philipchuk, Vasil, to United States of America, Navy. Anti-personnel ordnance device. 3,635,163, 1-18-72, Cl. 102-64.
Philipe, Oscar, to Anglo Swiss (Equipment Production) Limited. Appliances for cooking and/or heating foodstuffs. 3,681,096, 8-1-72, Cl. 99-339.000.
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Philippi, Charles W. Balancing skill game. 3,700,234, 10-24-72, Cl. 273-1.00m.
Philippi, Eugene O. Hydraulic limited slip and stabilizing differential gearing unit. 3,686,976, 8-29-72, Cl. 74-711.000.
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Philippson, Rainer; Gibian, Heinz; Muftic, Mahmud; and Kaspar, Emanuel, to Schering A.G. 22-Guanidyl steroids and method of making and using the same. 3,639,433, 2-1-72, Cl. 260-397.
Philippson, Rainer; Hauser, Helmut; Gibian, Heinz; Kaspar, Emanuel; and Kessler, Hans-Joachim, to Schering AG. Unsaturated 22-guanidyl steroids. 3,674,815, 7-4-72, Cl. 260-397.000.
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Phillipps, Gordon Hanley; and Tulley, Alan, to Glaxo Laboratories Limited. 11β-Fluoro-19-nor-steroids and process for their preparation. 3,636,011, 1-18-72, Cl. 260-397.3.
Phillipps, Gordon Hanley, to Glaxo Laboratories, Limited. β-Hydroxy- and 3-ether-1,3,5,(10), 7-dehydrosteroids. 3,644,439, 2-22-72, Cl. 260-397.4.
Phillips, Adrian. Propellor. 3,635,590, 1-18-72, Cl. 416-223.
Phillips, Adrian. Fluidfoil section. 3,697,193, 10-10-72, Cl. 416-223.
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Phillips, Arthur P.; and Burrows, Robert B., to Burroughs Wellcome & Co. (U.S.A.) Inc. Styryl thiazolium salts. 3,641,012, 2-8-72, Cl. 260-240.9.
Phillips, Ben F.: *See—*
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Phillips, Benjamin; Pollart, Dale Flavian; and Koleske, Joseph Victor, to Union Carbide Corporation. Formable orthopedic cast materials, resultant casts and method. 3,692,023, 9-19-72, Cl. 128-90.000.
Phillips, Benjamin, to Universal Electric Company. Bearing structure. 3,701,574, 10-31-72, Cl. 308-72.000.
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Phillips, Calvert F., Jr., to United States of America, Air Force. Radar system logic circuit. 3,689,922, 9-5-72, Cl. 343-17.a0r.
Phillips, Calvin C., to Safeway Stores, Incorporated. Apparatus and method for washing trailer interiors. 3,689,318, 9-5-72, Cl. 134-23.000.
Phillips, Cecil E.; and Bennett, Fay M., to Saf-Pla Corporation. Tape and bandage cutter. 3,673,687, 7-4-72, Cl. 30-294.000.
Phillips, Cecil E.; Bennett, Fay M.; and Larson, Robert L., to Saf-Pla Corporation. Therapeutic exerciser with regulatable hydraulic torsional resistance. 3,702,188, 11-7-72, Cl. 272-57.000.
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Phillips, Cyril Howard; Brunton, James Charles; and Pearce, Geoffrey Downing, to British Cellophone Limited. Heat-sealable moistureproof wrapping material. 3,676,185, 7-11-72, Cl. 117-68.500.
Phillips, Delbert L.; and Feightner, Lewis Clark. Percussive welder. 3,654,423, 4-4-72, Cl. 219-95.
Phillips, Delbert L.; and Feightner, Lewis Clark, to New Twist Connector Corporation. Welder. 3,707,614, 12-26-72, Cl. 219-97.000.
Phillips, Donald G.; and Lubonski, Robert J. System for translating data from a display into electrical signals suitable for storage. 3,644,714, 2-22-72, Cl. 235-61.11.
Phillips, Edward J. Fender warning device. 3,644,887, 2-22-72, Cl. 340-102.
Phillips, Edwin N., to United States of America, Navy. Annular scansion circuit for closed circuit television systems. 3,659,142, 4-25-72, Cl. 315-24.000.
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Phillips, Floyd L., Jr., to Reynolds, R. J., Tobacco Company. Package for holding two can units and a more fragile unit and blank for making same. 3,638,787, 2-1-72, Cl. 206-47.
Phillips, Floyd L., Jr., to Reynolds, R. J., Tobacco Company. Display cartons and convertible shipping and display cartons and blanks therefor. 3,669,251, 6-13-72, Cl. 206-44.
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Phillips, Howard Charles: *See—*
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Phillips, James A.; Schofield, Aldred E.; and Briscoe, William L., to United States of America, Atomic Energy Commission. All-metal discharge tube. 3,667,059, 5-30-72, Cl. 328-233.000.
Phillips, James A., to Standard Oil Company, (Indiana). Plastic-metal can. 3,685,685, 8-22-72, Cl. 220-67.000.
Phillips, James V. Magnetized recorder thread. 3,672,991, 6-27-72, Cl. 117-235.000.
Phillips, James W., to Dwyer Instruments, Inc. Molded plastic flowmeter and control valve therefor. 3,633,421, 1-11-72, Cl. 73-209.
Phillips, James W.; and Zoludow, Richard S., to Dwyer Instruments, Inc. Pressure gauge. 3,645,140, 2-29-72, Cl. 73-407.
Phillips, James W., to Dwyer Instruments, Inc. Molded plastic flowmeter. 3,675,481, 7-11-72, Cl. 73-209.000.
Phillips, James W.; and Winter, James R., to Dwyer Instruments, Inc. Fluid pressure operated diaphragm switch with improved adjustment means and contact structure. 3,689,719, 9-5-72, Cl. 200-83.00p.
Phillips, John Arnaud; and Cowlin, John William, to Evershed & Vignoles Limited. Recording styli and control circuits for styli. 3,689,937, 9-5-72, Cl. 346-76.00r.
Phillips, John F., to Cessna Aircraft Company, The. Closure for fluid pressure vessel. 3,650,182, 3-21-72, Cl. 92-128.
Phillips, John Franklin. Fabric shearing apparatus. 3,680,418, 8-1-72, Cl. 83-80.000.
Phillips, John P. Electronic ignition. 3,673,998, 7-4-72, Cl. 123-148.00e.

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Phillips, Kenneth W.; and Phillips, Iris L. Drum body having integral mounting lugs for drumhead tensioning apparatus. 3,674,911, 7-4-72, Cl. 84-411.000.
Phillips, Kevin John, to RCA Corporation. Nutation damping in dual-spin spacecraft. 3,695,554, 10-3-72, Cl. 244-1.0sa.
Phillips, Larry B., to New Golf, Inc. Coin-actuated golf ball testing apparatus. 3,653,479, 4-4-72, Cl. 194-9.
Phillips, Lawrence, Jr., to Unicorn Industries, Inc. Exterior power supply connection for recreation vehicles. 3,641,472, 2-8-72, Cl. 339-10.
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Phillips, Leslie Nathan, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Continuous carbon fibre tapes. 3,669,158, 6-13-72, Cl. 139-420.
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Phillips, Mabry S.: *See*—
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Phillips, Michael, to Dreyfus, L. A. Company. Laminated slabs of chewing gum base. 3,644,169, 2-22-72, Cl. 99-135.
Phillips, Michael; and Jurow, Victor A., to Dreyfus, L. A., Company. Resin crusher. 3,706,419, 12-19-72, Cl. 241-220.000.
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Phillips, Odis L., to Phillips Industries, Inc. Apparatus for feeding strip stock. 3,643,845, 2-22-72, Cl. 226-145.
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Phillips, Paul S., Jr., to National Cash Register Company, The. Photocopy process utilizing a transfer sheet coated with microcapsules containing photosensitive Michler's ketone dye-precursors. 3,700,439, 10-24-72, Cl. 96-27.0tr.
Phillips, Peter: *See*—
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Phillips, Walt, to Commodity Improvements Inc. K_2ZrF_6. 3,647,700, 3-7-72, Cl. 252-89.

Phillips, Wendell Gary, to Monsanto Company. 2,6-Diorgano-1,5-dithia-2,6-diazacyclo octane-3,4,7,8-tetraones and their manufacture. 3,694,434, 9-26-72, Cl. 260-239.30r.

Phillips, Wendell Gary. 4,4,8,8-Tetra chloro-2,6-diorgano-15-dithia-2,6-diazacyclo-octane-3,7-diones and their manufacture. 3,694,435, 9-26-72, Cl. 260-239.30r.

Phillips, Wendell Gary, to Monsanto Company. Insecticidal methods using N-substituted heterocyclic phenacyl halides and ylids. 3,702,361, 11-7-72, Cl. 424-263.000.

Phillips, Willard C.: *See*—
Griffin, Phil, III; and Phillips, Willard C., 3,658,015.

Phillips, William: *See*—
Glass, Robert I.; Phillips, William; and House, William R., 3,695,125.

Phillips, William, to RCA Corporation. Doped callium fluoride and strentium fluoride photochromic compositions. 3,684,727, 8-15-72, Cl. 252-300.000.

Phillips, William A., to Granco Equipment, Inc. Incinerator with extended heat exchange surface. 3,670,668, 6-20-72, Cl. 110-8.
Phillips, William H., Jr., to Carmet Company. Die assembly. 3,680,340, 8-1-72, Cl. 72-36.000.
Phillips, William H., Jr., to Allegheny Ludlum Steel Corporation. Die assembly. 3,680,354, 8-1-72, Cl. 72-467.000.
Phillipson, John Maddison: *See—*
Hynds, John; Phillipson, John Maddison; and Vickers, Edward Jervis, 3,694,408.
Philofsky, Elliott M.; and Ritchie, Kim, to Motorola, Inc. Intermetallic passivation of aluminum metallization. 3,647,935, 3-7-72, Cl. 174-68.5.
Philograph Publications Limited: *See—*
Tacey, Charles Arthur, 3,636,230.
Philosophos, John A.: *See—*
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Philossky, Harold M.: *See—*
Heller, Paul R.; Brenner, William C.; and Philossky, Harold M., 3,647,932.
Philpott, Peter George: *See—*
Osbond, John Mervyn; and Philpott, Peter George, 3,655,684.
Philpott, Peter John: *See—*
Boertje, Arie Leendert; and Philpott, Peter John, 3,696,735.
Phinizy, R. B.: *See—*
Hedin, Robert A.; and Pantas, Leo J., 3,662,342.
Phinizy, R. B., mesne: *See—*
Hedin, Robert A., 3,633,167.
Hedin, Robert A., 3,641,498.
Phinney, Earl M.: *See—*
Digney, Frank J., Jr.; and Phinney, Earl M., 3,704,393.
Phinney, Richard R., to International Business Machines Corporation. Rotational mechanism. 3,645,229, 2-29-72, Cl. 118-48.
Phippen, Arnold M. Portable ore classifiers and conditioners. 3,653,505, 4-4-72, Cl. 209-44.
Phipps, Arthur L. Extrusion machine. 3,704,083, 11-28-72, Cl. 425-71.000.
Phipps, Charles M., Jr.: *See—*
Boucher, Raymond R.; and Phipps, Charles M., Jr., 3,667,533.
Phipps, Larry K., to Texas Instruments, Incorporated. Slurry agitator. 3,638,919, 2-1-72, Cl. 259-95.
Phipps, Nelson S.: *See—*
Donnelly, James F.; Gee, Wendell P.; and Phipps, Nelson S., 3,701,286.
Phlieger, Graydon A., Jr., to United States of America, National Aeronautics and Space Administration. Universal environment package with sectional component housing. 3,639,809, 2-1-72, Cl. 317-117.
Phlieger, Graydon A., Jr., to National Aeronautics and Space Administration. Pressurized lighting system. 3,673,424, 6-27-72, Cl. 307-118.000.
Phlipot, Georges A.; Michiels, Marie-Jose-Suzanne; and de Villeneuve, Yolande-Paule Marie-Josephe, to Eastman Kodak Company. Novel light-sensitive copolyesters. 3,674,745, 7-4-72, Cl. 260-75.0va.
Phoenix, Lancelot: *See—*
Harris, Paul Anthony; and Phoenix, Lancelot, 3,665,903.
Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, 3,694,038.
Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, 3,703,319.
Ingram, Brian; Harries, David A.; and Phoenix, Lancelot, 3,704,044.
Phoenix, Lancelot; and Taylor, Joseph David Foulkes, to Lucas, Joseph, (Industries) Limited. Circuitry means to enable the automatic dialling of telephone numbers without lifting the handset. 3,662,118, 5-9-72, Cl. 179-90.
Phonocopy, Inc.: *See—*
Goble, Ralph W., 3,707,601.
Gray, Thomas J.; Picchiottino, John B.; and Hackett, Kenneth R., 3,694,574.
Phonocopy, Inc., mesne: *See—*
Salaman, Roy G.; and Picchiottino, John B., 3,674,922.
Phonplex Corporation, mesne: *See—*
Slavin, Martin J., 3,641,496.
Photis, James Mitchell: *See—*
Fine, Leonard Wolfe; Matsuda, Ken; and Photis, James Mitchell, 3,699,164.
Photo Corporation of America: *See—*
Davis, Stuart C., 3,701,308.
Photo Film Co., Ltd.: *See—*
Kitajima, Masao; Yamaguchi, Tsutomu; Kondo, Asaji; and Murcya, Noriyuki, 3,691,090.
Photo-Motion Corporation: *See—*
Eaves, Robert B., 3,643,361.
Photocircuits Corporation: *See—*
Burr, Robert Page, 3,646,572.
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Keogh, Raymond J.; and Wilczek, Frank J., 3,674,602.
Lemecha, Bogdan, 3,661,638.
Schneble, Frederick W., Jr.; McCormack, John F.; and Zeblisky, Rudolph J., 3,635,758.
Tucker, William B., 3,648,360.
Photocircuits; division of Kollmorgen Corporation: *See—*
Paunovic, Milan, 3,645,749.
Schneble, Frederick W., Jr.; Zeblisky, Rudolph J.; McCormack, John F.; and Williamson, John Duff, 3,650,777.
Zeblisky, Rudolph J., 3,672,923.
Zeblisky, Rudolph J., 3,682,671.
Photogramics, Inc.: *See—*
Dicus, Allen B., Jr.; Kharasch, Arnold S.; and Lavin, Sheldon, 3,682,063.
Photosystems Corporation: *See—*
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Lysle, Gordon; and Bonagura, Ronald, 3,696,722.
Phototron Co.: *See—*
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Photovolt Corporation: *See—*
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Vital, Zoltan; and Orban, Jean, 3,673,485.
Phua, Mee See: *See—*
Plakas, Chris J.; and Phua, Mee See, 3,676,584.
Phung, Nhu Hung; and Le Febvre, Gilles, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for manufacturing titanium trichloride, the catalysts obtained therefrom and their uses in the polymerization of polymerizable monomers. 3,640,98, 2-8-72, Cl. 260-93.7.
Phys-Chemical Research Corporation: *See—*
Hershler, Abe, 3,705,375.
Physical Electronics Industries, Inc.: *See—*
Ballou, Richard P., 3,688,173.
Physics International Company: *See—*
Godfrey, Charles S., 3,695,715.
Neill, Cormac G.; and Smiley, Parker C., 3,648,967.
O'Neill, Cormac G., 3,688,750.
O'Neill, Cormac G., 3,690,307.
O'Neill, Cormac Garrett, 3,649,856.
Physics International Company, mesne: *See—*
Benson, Glendon M., 3,635,016.
Physikalisch-Technisches Entwichlungsburolaing: *See—*
Ludin, Ludwig, 3,696,634.
Physio-Control Corporation: *See—*
Kawaguchi, Harold H., 3,685,645.
Physitech, Inc.: *See—*
Starer, Robert L., 3,676,736.
Piacentino, Thomas J., to Longwood Development Corporation. Apparatus for working the compost of mushroom beds. 3,704,752, 12-5-72, Cl. 172-116.000.
Piacesi, Dante, Jr.: *See—*
Sternberg, Hyman M.; Piacesi, Dante, Jr.; and Katz, Howard, 3,675,577.
Pian, Charles H. C.: *See—*
Berman, Elliot; McLeod, Gerald L.; Pian, Charles H. C.; Stein, Samuel H.; and Pian, Juliette F., 3,658,528.
Pian, Juliette F.: *See—*
Berman, Elliot; McLeod, Gerald L.; Pian, Charles H. C.; Stein, Samuel H.; and Pian, Juliette F., 3,658,528.
Piana, Francesco; and Brega, Angelo. Mecmor S.p.A. Device for cutting and gripping threads in circular knitting machines and the like. 3,640,094, 2-8-72, Cl. 66-19.
Piana, Renato. Roll-type blinds for windows. 3,642,050, 2-15-72, Cl. 160-133.
Piano, Anthony P., Jr.: *See—*
Zabroski, Frank; McDonald, Walter; Piano, Anthony P., Jr.; and Seitel, Norbert J., 3,658,168.
Piasecki Aircraft Corporation: *See—*
Korsak, Kazimierz, 3,640,185.
Piasecki, Frank N.; and Meyers, Donald N., 3,656,723.
Piasecki, Felix J.: *See—*
Nickelsen, Hubert O.; Kopanda, Joseph E.; and Piasecki, Felix J., 3,677,781.
Piasecki, Frank N.; and Meyers, Donald N., to Piasecki Aircraft Corporation. Multiple helicopter lift system. 3,656,723, 4-18-72, Cl. 244-2.
Piasecki, Frank N. Hoist system. 3,661,415, 5-9-72, Cl. 294-81.
Piasek, Edmund J.; and Karll, Robert E., to Standard Oil Company. Alkyl-phenol, alkylene polyamine, formaldehyde, aldehyde reaction products. 3,634,515, 1-11-72, Cl. 260-570.5.
Piasek, Edmund J.; and Karll, Robert E., to Standard Oil Company (Indiana). Boron derivatives of high molecular weight Mannich condensation products. 3,697,574, 10-10-72, Cl. 260-462.00r.
Piasek, Edmund J.; Karll, Robert E.; and Lee, Richard J., to Standard Oil Company. Preparation of oil-soluble boron derivatives of complex substituted alkylene polyamine. 3,703,536, 11-21-72, Cl. 260-462.00r.
Piasek, Edmund J.; and Karll, Robert E., to Standard Oil Company (Indiana). Boron-containing high molecular weight Mannich condensation. 3,704,308, 11-28-72, Cl. 260-462.00r.

Piatek, Edward Walter; and Horr, William A., to Victaulic Company of America. Pipe groover. 3,699,828, 10-24-72, Cl. 82-4.00c.

Piatek, Robert J., to Kraftco Corporation. Conveyor system. 3,661,243, 5-9-72, Cl. 198-34.

Piatkowski, Rudiger: *See—*
Clenet, Alain; and Piatkowski, Rudiger, 3,663,141.

Piatt, John M.: *See—*
Murphy, Clarence R.; Onopchenko, Anatoli; Piatt, John M.; and Seekircher, Richard, 3,644,499.

Piattelli, Giuseppe, to Officine Meccaniche Santa Lucia A.S.A. Machine for beaming knitted fabrics of common and anti-ladder type or the like on to dyeing beams or cardboard rollers. 3,675,868, 7-11-72, Cl. 242-67.100.

Piatti, Sanzio Pio Vincenzo. Internal combustion engines. 3,633,577, 1-11-72, Cl. 123-191.

Piazza, Aldo. Crampon. 3,685,173, 8-22-72, Cl. 36-7.600.

Piazza, Bruno, to Olivetti, Ing., C., & C., S.p.A. Parallel printing apparatus for recorded data. 3,640,216, 2-8-72, Cl. 101-93.

Piazza, Emanuel F.: *See—*
Goetz, Frederick J., Jr.; and Piazza, Emanuel F., 3,650,584.

Piazza, Henry; and Bach, Pierre, to French State, represented by the Minister of Armed Forces Ministerial Delegation of Weapons, Technical Delegation of Land Weapons, Manufacturing Workshops of Toulouse. Igniter for electric primer. 3,690,259, 9-12-72, Cl.102-70.200.

Piazza, Joe E.; and Nichols, Paul E., to Leisure Products Corporation. Power driven aquaplane. 3,636,911, 1-25-72, Cl. 115-70.

Piazze, Thomas E., to Continental Can Company, Inc. Contour bottom bag. 3,690,545, 9-12-72, Cl. 229-57.000.

Piazze, Thomas E., to Continental Can Company, Inc. Apparatus for making heat sealed tubes. 3,694,289, 9-26-72, Cl. 156-380.000.

Piber, Earl T., to Cutler-Hammer, Inc. Integral reversing trigger switches for speed controlled portable tools. 3,632,936, 1-4-72, Cl. 200-157.

Pic Design Corporation: *See—*
Wertman, Louis, 3,679,809.
Wesker, Lew, 3,645,161.

Pic-Air Inc.: *See—*
Picker, Franck M., 3,706,337.

Picard, Clarence J.: *See—*
Garrahan, William F.; Madden, Edwin J.; and Picard, Clarence J., 3,699,959.

Picard, Claude Andre, to Tissmetal Lionel-Dupont. Light projectors. 3,693,000, 9-19-72, Cl. 240-41.600.

Picard, Claude W.: *See—*
Bream, John B.; and Picard, Claude W., 3,634,508.
Bream, John Bernard; and Picard, Claude W., 3,632,645.

Picard, Jean L., to International Business Machines Corporation. Data transmission method and serial loop data transmission system. 3,633,166, 1-4-72, Cl. 340-163.

Picard, Jean P.: *See—*
Bobinski, Jack; and Picard, Jean P., 3,706,280.
Voigt, H. William, Jr.; Pell, Lawrence W.; and Picard, Jean P., 3,706,609.

Picard, Jean P.; Dunigan, Thomas E.; and Pell, Lawrence W., to United States of America, Army. Self-destruct land mine. 3,667,387, 6-6-72, Cl. 102-8.000.

Picard, Jean P.; and Voight, H. William, Jr., to United States of America, Army. Process and composition for use in munitions containing white phosphorus. 3,694,278, 9-26-72, Cl. 149-29.000.

Picard, Jean P.; Seals, William O.; and Pell, Lawrence W., to United States of America, Army. Means for improving burnout of consumable cartridge cases. 3,696,748, 10-10-72, Cl. 102-38.000.

Picard, Joseph Albert, Jr.: *See—*
Dunne, Maurice J.; Correll, Robert E.; and Picard, Joseph Albert, Jr., 3,654,616.

Picard, Karl-Heinz; and Beierer, Joachim, to Siemens Aktiengesellschaft. Hydraulic drive for electric switches. 3,679,909, 7-25-72, Cl. 307-144.000.

Picard, Salvatore A.: *See—*
Naubereit, Henry; and Picard, Salvatore A., 3,688,202.

Piccagli, Ugo. Clam shell excavator. 3,693,274, 9-26-72, Cl. 37-187.000.

Piccardo, Jack E., to Grove Valve and Regulator Company. Welded fabricated ball valve. 3,666,237, 5-30-72, Cl. 251-367.000.

Picchiottino, John B.: *See—*
Gray, Thomas J.; Picchiottino, John B.; and Hackett, Kenneth R., 3,694,574.
Salaman, Roy G.; and Picchiottino, John B., 3,674,922.

Picciano, James K.; and Zauchner, Joseph, to International Business Machines Corporation. FET decode circuit. 3,702,926, 11-14-72, Cl. 235-154.000.

Picciolo, Grace L.: *See—*
Chappelle, Emmett W.; and Picciolo, Grace L., 3,660,240.

Piccione, Sebastian W. Jammed paper detector. 3,659,081, 4-25-72, Cl. 235-92.

Piccirilli, Albert T.; Cochrane, Frederick P.; and Redner, Eugene S., to Honeywell Inc. Apparatus including delay means for detecting the absence of information in a stream of bits. 3,652,943, 3-28-72, Cl. 328-120.

Piccitto, Francesco. Pedal operated water sport vehicle. 3,704,682, 12-5-72, Cl. 115-26.300.

Piccola, Richard C., to Celotex Corporation, The. Adjustable light fixture for U-shaped lamps. 3,704,212, 11-28-72, Cl. 240-51.120.

Piccolini, Richard J., to Rohm & Haas Company. Oil-soluble azo compounds. 3,634,493, 1-11-72, Cl. 260-482.

Piccolini, Richard J., to Rohm & Haas Company. Compositions containing oil-soluble azo compounds. 3,684,713, 8-15-72, Cl. 252-47.500.

Piccolo, Jerry, to Advance Metal Products, Inc. Electric sonic device for cleaning small articles. 3,640,294, 2-8-72, Cl. 134-217.

Piccone, Dante E.; and Somos, Istvan, to General Electric Company. Thyristor overvoltage protective circuit. 3,662,250, 5-9-72, Cl. 321-11.

Piccotti, Enzo: *See—*
Alcock, David Gerald; Brown, John Colin; Piccotti, Enzo; and Iungius, Vorman John, 3,702,248.

Piccotti, Enzo, to Ilford Limited. Color photographic process using a bleach-fix solution containing a metal complex of a selenium compound. 3,701,662, 10-31-72, Cl. 96-55.000.

Picek, Charles Richard; and van Hoek, Cornelis, to American Machine & Foundry Company. Evaporating-concentrating apparatus and method. 3,699,007, 10-17-72, Cl. 203-40.000.

Pich, Rene: *See—*
Bonnard, Lucien; Pich, Rene; and Palsky, Alain, 3,663,509.

Pich, Rene; and Vaginay, Yves, to Societe Rhodiaceta. Injection molded-branched polyesters. 3,692,744, 9-19-72, Cl. 260-75.00t.

Pichal, Henri T., to Honeywell Information Systems, Inc. High gain, ultra linear detector for frequency modulation. 3,676,785, 7-11-72, Cl. 329-103.000.

Pichel Industries, Inc.: *See—*
Levy, Stanley P., 3,675,078.
Pichel, Marlowe A., 3,639,751.

Pichel, Marlowe A., to Pichel Industries, Inc. Thermally dissipative enclosure for portable high intensity illuminating device. 3,639,751, 2-1-72, Cl. 240-47.

Pichert, Jerome: *See—*
Haas, David J.; and Pichert, Jerome, 3,689,790.

Pichler, Erika: *See—*
Volker, Theodor; and Pichler, Erika, 3,666,805.

Pichon, James D.: *See—*
Kruse, Frederick V.; and Pichon, James D., 3,695,632.

Pick, Steve J. Vehicle tilt indication apparatus. 3,701,093, 10-24-72, Cl. 340-52.00h.

Pick, Werner: *See—*
Minkner, Ruthard; and Pick, Werner, 3,633,608.

Pickard, Henry M. Hattersley. Electrically heated steam-raising autoclave. 3,674,981, 7-4-72, Cl. 219-401.000.

Pickard, Henry Maurice Hattersley. Swing bolts. 3,664,700, 5-23-72, Cl. 292-256.75.

Pickard, John E., to Ball Brothers Company Incorporated. Printing plate processing method. 3,660,089, 5-2-72, Cl. 96-48.

Picken, James B. Swim film. 3,665,535, 5-30-72, Cl. 9-304.000.

Pickens, Paul D. Pump. 3,677,661, 7-18-72, Cl. 415-199.000.

Picker Corporation: *See—*
Atlee, Zed J.; and Pleil, Viktor W., 3,649,861.
Goldman, Samuel C.; and Albrecht, Lance M., 3,697,956.
Martone, Ronald J.; Mueller, Peter G.; and Flis, Richard J., 3,683,180.
Martone, Ronald J.; and Mueller, Peter G., 3,697,753.
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Picker Corporation, mesne: *See—*
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Picker, Franck M., to Pic-Air Inc. Force-balanced die casting apparatus. 3,706,337, 12-19-72, Cl. 164-303.000.

Picker X-ray Mfg. Limited: *See—*
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Jakobsen, Niels, 3,702,934.

Pickering & Company, Inc.: *See—*
Chass, Jacob, 3,663,911.
Chass, Jacob, 3,694,785.
Stanton, Walter O., 3,646,279.

Pickering, Alan Hugh, to English Electric Valve Company Limited. Magnetrons. 3,659,145, 4-25-72, Cl. 315-39.55.

Pickering, Alan Hugh, to English Electric Valve Company Limited. Electron discharge tubes. 3,707,639, 12-26-72, Cl. 313-30.000.

Pickering, Charles E.: *See—*
Mindler, Fredric A.; and Pickering, Charles E., 3,659,798.

Pickering, John J. Fishing rig and means for handling same. 3,664,054, 5-23-72, Cl. 43-19.000.

Pickering, Richard W.: *See—*
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Pickering, Timothy Lee: *See—*
Brode, George Lewis; and Pickering, Timothy Lee, 3,640,965.

Pickert, Paul Eugene, to Union Carbide Corporation. Process for preparing supersiliceous zeolites. 3,640,681, 2-8-72, Cl. 23-111.
Pickett, Charles G.; Lang, Robert A.; and Comers, Robert C., to Bio-Medical Sciences, Inc. Dispenser for disposable type thermometers. 3,677,866, 7-18-72, Cl. 156-584.000.
Pickett, Charles G.; and Chadha, Desh D., to Bio-Medical Sciences, Inc. Temperature indicator. 3,704,985, 12-5-72, Cl. 73-356.000.
Pickett, David A., to Ross Operating Valve Company. Resilient seal spool valve. 3,680,596, 8-1-72, Cl. 137-625.690.
Pickett, Eugene W.: *See—*
Vanlingen, George A.; and Pickett, Eugene W., 3,690,715.
Pickett, John E. P. Microscopy tissue receptacle method. 3,697,299, 10-10-72, Cl. 117-3.000.
Pickett, John E. P. Method utilizing a disposable blade in microtome cutting. 3,699,830, 10-24-72, Cl. 83-13.000.
Pickett, Oscar A., Jr.: *See—*
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Ridgway, James S.; and Pickett, Oscar A., Jr., 3,647,761.
Ridgway, James S.; King, Henry L.; and Pickett, Oscar A., Jr., 3,674,752.
Pickett, Theodore C. Binocular viewing device. 3,655,264, 4-11-72, Cl. 350-145.000.
Pickett, Wiley J.; and Smith, Bynum E., said Bynum assor. to Utility Industries, Inc. Electrical junction for high-current conductors and connector and method suitable for making same. 3,673,313, 6-27-72, Cl. 174-90.000.
Pickholtz, Raymond L., to International Business Machines Corporation. Coherent single sideband phase locking technique. 3,675,131, 7-4-72, Cl. 325-329.000.
Pickin, John Harlan, to Colgate-Palmolive Company. Bleaching packets. 3,634,260, 1-11-72, Cl. 252-95.
Pickles, Cynthia Joan; and Bishop, Nigel Douglas, to Imperial Chemical Industries Limited. Pesticidal carbamate derivatives of naphthaquinones. 3,705,914, 12-12-72, Cl. 260-396.00r.
Pickles, Harry, to USM Corporation. Cutting press controls. 3,690,206, 9-12-72, Cl. 83-537.000.
Pickles, Joseph, to Ferro Manufacturing Corporation. Window regulator mechanism. 3,659,466, 5-2-72, Cl. 74-89.180.
Pickles, Joseph, to Ferro Manufacturing Corporation. Automobile door lock. 3,672,713, 6-27-72, Cl. 292-216.000.
Pickles, Joseph, to Ferro Manufacturing Corporation. Reclining seat adjuster. 3,673,891, 7-4-72, Cl. 74-804.000.
Pickles, Joseph; and Fudala, Chester S., to Ferro Manufacturing Corporation. Tubular valve and body structure. 3,674,238, 7-4-72, Cl. 251-309.000.
Pickles, Joseph, to Ferro Manufacturing Corporation. Window regulator. 3,706,163, 12-19-72, Cl. 49-362.000.
Pickles, Joseph, to Ferro Manufacturing Corporation. Tailgate window regulator. 3,706,236, 12-19-72, Cl. 74-89.110.
Pickles, Wilfred, to Ciba-Geigy Corporation. Tin-plating method and electrolyte. 3,677,910, 7-18-72, Cl. 204-54.00r.
Picklesimer, Lewellyn G., to United States of America, Air Force. Polymers containing nitrile and thioamide groups and their preparation. 3,687,908, 8-29-72, Cl. 260-79.5nv.
Pickron, Roger R., to Textron, Inc. Molded plastic wheel structure. 3,666,322, 5-30-72, Cl. 301-63.0pw.
Pico Safe Stairs Co.: *See—*
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Picot, Clement, to Societe d'Instrumentation Schlumberger. Analog circuit for an analog-to-digital converter of the dual-slope integrating type. 3,660,834, 5-2-72, Cl. 340-347.
Picq, Patrice, to Aluminium Suisse SA, mesne. Method for retaining objects in a container. 3,680,279, 8-1-72, Cl. 53-26.000.
Picquendar, Jean Edgar; and Torguet, Roger, to Thomson-CSF. Read-out system for memories comprising matrices of photosensitive elements. 3,641,513, 2-8-72, Cl. 340-173.
Picquendar, Jean-Edgar: *See—*
Cahen, Olivier; Picquendar, Jean-Edgar; and Pircher, Georges, 3,648,048.
Pict Limited: *See—*
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Picunko, Thomas: *See—*
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Picut, Frederick: *See—*
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Picut, Frederick R.: *See—*
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Pid Corporation: *See—*
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Rice, Harold D.; and Leach, Sam L., 3,635,778.
Pida, George, to United States of America, Navy. Variable reluctance magnetic field transducer. 3,691,515, 9-12-72, Cl. 340-8.00r.
Pidebois, Jacques Eloi: *See—*
Bauger, Louis Jules; Beyler, Roland Robert Charles; Le Guen, Henri; Pidebois, Jacques Eloi; and Schenher, Michel Bernard, 3,677,013.
Pidgeon, Eric: *See—*
Love, Dennis Anthony; Neal, David Patrick John; and Pidgeon, Eric, 3,641,001.
Piech, Ferdinand, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Drive chain for driving shafts on wheels, especially for camshaft drives of internal combustion engines. 3,707,092, 12-26-72, Cl. 74-245.00r.
Piech, Ferdinand K.; and Mezger, Hans, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Connecting rod, especially forked connecting rod for internal combustion engines. 3,682,018, 8-8-72, Cl. 74-579.00e.
Piech, Ferdinand V., to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Combined crankshaft for multi-cylinder piston engines, especially internal combustion engines. 3,704,636, 12-5-72, Cl. 74-597.000.
Piechota, Helmut: *See—*
Diehr, Hans Joachim; Merten, Rudolf; Uhlig, Konrad; Piechota, Helmut; and Weber, Christian, 3,634,345.
Pieck, Christian; and Schaumburg, Guenter, to Societe d'Exploitation des Brevets Neiman S.A. Safety device for anti-theft device. 3,633,394, 1-11-72, Cl. 70-309.
Pied, Jean-Philippe, to Societe Ethylene Plastique. Stabilisers for polysulphides. 3,676,395, 7-11-72, Cl. 260-45.90r.
Piedallu, Marcel M. Oscillating deep fryer. 3,635,150, 1-18-72, Cl. 99-409.
Piedallu, Marcel M. Oscillating deep fryer. 3,688,684, 9-5-72, Cl. 99-409.000.
Piedboeuf, Georges, to Bombardier Limited. Snowmobile ski leg. 3,693,992, 9-26-72, Cl. 280-26.000.
Piegza, Henry J., to Welding & Steel Fabrication Co., Inc. Sheaved pressure vessel unit. 3,680,569, 8-1-72, Cl. 134-64.000.
Piegza, Henry John, to Welding & Steel Fabrication Co., Inc. Pivotal quick disconnect fluid flow coupling. 3,700,267, 10-24-72, Cl. 285-24.000.
Pieh, Gerhard: *See—*
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Piekarski, William F.: *See—*
Manasian, Arthur E.; Papenfuss, Carl J.; and Piekarski, William F., 3,674,139.
Piekenbrink, Rolf; and Reinhardt, Albert. Pressure casting machine with pressure increase system. 3,693,702, 9-26-72, Cl. 164-314.000.
Pielkenrood, Jacob; and Ambrosius, Willem L. B., to Pielkenrood-Vinitex N.V. Separation device. 3,666,111, 5-30-72, Cl. 210-521.
Pielkenrood Jacob; and Ambrosius, Willem L. B., to Pielkenrood-Vinitex N.V. Separation device. 3,666,112, 5-30-72, Cl. 210-521.000.
Pielkenrood-Vinitex N.V.: *See—*
Pielkenrood, Jacob; and Ambrosius, Willem L. B., 3,666,111.
Pielkenrood Jacob; and Ambrosius, Willem L. B., 3,666,112.
Pien, Jean Lucien Joseph, to Genvrain. Extracting proteins from lactoserum. 3,644,326, 2-22-72, Cl. 260-122.
Pienezza, Jessee W.: *See—*
Sellers, Aubrey G., 3,702,197.
Pieper, Charles Joseph; and Langmead, Edmund Clarence, Jr., to Chicago Bridge & Iron Company. Converter vessel with heat shield about its tap hole. 3,682,460, 8-8-72, Cl. 266-35.000.
Pieper, Don B., to Whim, Inc. Independent ignition engine. 3,672,164, 6-27-72, Cl. 60-39.380.
Pieper, Friedrich: *See—*
Plapper, Jurgen; and Pieper, Friedrich, 3,661,631.
Pieper, Kenneth M.; and Gibson, Thomas W., to Procter & Gamble Company, The. 3-Endo-methyl-3-exo(4'-methylpentanalyl)-2-methylenebicyclo [2.2.1] heptane and process for preparing same. 3,673,256, 6-27-72, Cl. 260-598.000.
Pieper, Louis W.; and Kerr, Robert O., to General Electric Company. Apparatus for controlling the coating of selected surfaces of an article of manufacture. 3,638,606, 2-1-72, Cl. 118-69.
Pieper, Wolfgang, to Siemens Aktiengesellschaft. Coupling components for electric machine. 3,636,393, 1-18-72, Cl. 310-71.
Piepers, Gijsbrecht G.; Vons, Leonard H.; Van Der Linde, Aart; and Lijbrink, Eduard, to Reactor Centrum Nederland. Spacer grid respectively plate spring for a bunch of cylindrical elements taking part in a heat-exchanging-process. 3,646,994, 3-7-72, Cl. 16-69.
Piepho, Donald A.: *See—*
Asal, Jerrold R.; and Piepho, Donald A., 3,670,825.
Piepho, Donald A., to Caterpillar Tractor Company. Track adjusting and recoil mechanism. 3,645,586, 2-29-72, Cl. 305-10.
Piepmeier, Carl W.: *See—*
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Piepmeyer, Joseph A., to Emery Industries, Inc. Drycleaning method. 3,635,656, 1-18-72, Cl. 8-142.
Pierart, Robert, to Babcock-Atlantique. Welding construction for multilayered devices. 3,680,584, 8-1-72, Cl. 137-143.000.
Pierburg, A., Auto- und Luftfahrt-Geratebau KG: *See—*
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Pierburg Luftfahrtgerate Union GmbH: *See—*
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Holzem, Heinz; and Henning, Hans-Joachim, 3,659,091.
Pierce, Andrew Earl, to Borden, Inc. Water and heat resistant adhesive. 3,671,382, 6-20-72, Cl. 161-214.000.
Pierce, Arleen C., to Allied Chemical Corporation. Photochemical process for preparing beta-thiolactones. 3,661,743, 5-9-72, Cl. 204-158.
Pierce, Boyd J., Jr. Universal four barrel carburetor adapter. 3,678,962, 7-25-72, Cl. 138-39.000.

Pierce, Chardo, Micronizing Company: *See*—
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Pierce, Chardo W., 3,701,670.
Pierce, Chardo W., to Pierce, Chardo, Micronizing Company. Infrared radiation of seed. 3,694,220, 9-26-72, Cl. 99-2.000.
Pierce, Chardo W., to Pierce, Chardo, Micronizing Company. Infrared micronizing cooker. 3,701,670, 10-31-72, Cl. 99-235.00a.
Pierce, Earl W., to General Motors Corporation. Gas flow baffle for wave interference silencing system. 3,648,802, 3-14-72, Cl. 181-44.
Pierce, Edward W.: *See*—
Schmersal, Larry J.; Miavecz, Joseph L.; Pierce, Edward W.; and Wojcik, David S., 3,665,455.
Pierce, Edwin A.; Knob, Richard W.; Roth, Samuel O.; and McKinney, Emery L., to Inland Systems, Inc. Building construction. 3,643,393, 2-22-72, Cl. 52-287.
Pierce, Edwin A.; Knob, Richard W.; Roth, Samuel O.; and McKinney, Emery L., to Inland Systems, Inc. Wall covering applicator. 3,671,362, 6-20-72, Cl. 156-552.000.
Pierce, Edwin Bruce: *See*—
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Pierce, Everette M., to United States of America, Army. Nitrocellulose base compositions and method for making same. 3,689,331, 9-5-72, Cl. 149-18.000.
Pierce, George W. Cable claw attachment. 3,698,047, 10-17-72, Cl. 24-238.000.
Pierce, Guy Donald; and Runft, Rudi K., to Cross Company, The. Gage head. 3,698,056, 10-17-72, Cl. 29-201.000.
Pierce, Harold C. Boxed produce load. 3,673,812, 7-4-72, Cl. 62-404.000.
Pierce, Harold C. Boxed product carloading. 3,701,324, 10-31-72, Cl. 105-369.00b.
Pierce, Howard E., Jr.: *See*—
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Pierce, Irving L.: *See*—
Schenavar, Harold E.; and Pierce, Irving L., 3,703,047.
Pierce, Irving L.; and Schenavar, Harold E. Outrigger fishing device with quick-detachable hook coupling. 3,650,063, 3-21-72, Cl. 43-42.74.
Pierce, Joe T.: *See*—
Gruczelak, Norman P.; and Pierce, Joe T., 3,648,264.
Pierce, John A., to LTV Electrosystems, Inc., mesne. Method and apparatus for very low frequency radio navigation. 3,696,424, 10-3-72, Cl. 343-105.00r.
Pierce, John H.: *See*—
King, Charles S. W.; and Pierce, John H., 3,685,755.
King, Charles S. W.; and Pierce, John H., 3,706,407.
Pierce, John H., to Bouligny, R. H., Inc. Traverse cam and follower for winders. 3,672,587, 6-27-72, Cl. 242-43.000.
Pierce, John K., Jr., to Diamond Shamrock Corporation. Process for preparing homo-and copolymers of vinyl chloride in aqueous emulsion. 3,642,740, 2-15-72, Cl. 260-87.5.
Pierce, John Robinson: *See*—
Berkley, David Arthur; Mitchell, Olga Mary Mracek; and Pierce, John Robinson, 3,699,271.
Pierce, Joseph E.: *See*—
Christine, William C.; and Pierce, Joseph E., 3,694,997.
Pierce, Joseph E., to AEI Corporation. Mixing dispenser having common feed line. 3,702,667, 11-14-72, Cl. 222-145.000.
Pierce, Larry J., to Trane Company, The. Heat exchange coil and housing therefor. 3,678,993, 7-25-72, Cl. 165-76.000.
Pierce, Laurance. Disc computer. 3,677,467, 7-18-72, Cl. 235-78.000.
Pierce, Leo F.: *See*—
Moore, Peter N.; and Pierce, Leo F., 3,675,943.
Moore, Peter N.; and Pierce, Leo F., 3,700,260.
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Ehrenfried, Albert D.; Niejadlik, John; and Pierce, Norton T., 3,663,881.
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Pierce, Ogden R.: *See*—
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Loree, Lorne A.; Pierce, Ogden R.; and Kim, Yung Ki, 3,647,740.
Pierce, Ogden R.; and Kim, Yung Ki, to Dow Corning Corporation. Fluoroalkylene silanes and siloxanes. 3,681,418, 8-1-72, Cl. 260-448.2.
Pierce, R. H. Manufacturing Company: *See*—
Gheen, Lyndle G.; and Daniels, Paul J., 3,642,306.
Pierce, Ray S. Mudguard attachment for automobiles. 3,684,311, 8-15-72, Cl. 280-152.00r.
Pierce, Robert Dean: *See*—
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Pierce, Ruth B. Fog generator for insecticides and the like. 3,675,360, 7-11-72, Cl. 43-129.000.
Pierce, Staley L., Jr.: *See*—
Liang, Po-Lung; and Pierce, Staley L., Jr., 3,692,432.
Pierce, Victor F. J. Apparatus for stringed musical instruments. 3,677,126, 7-18-72, Cl. 84-312.000.
Pierce, William C.: *See*—
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Pierdet, Andre: *See*—
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Piericci, Angiolo: *See*—
Giachetti, Alfredo; Maranghi, Enzo; and Piericci, Angiolo, 3,685,317.
Pierick, Richard L. Air cleaner. 3,668,840, 6-13-72, Cl. 55-239.000.
Pierini, John M.; Sarazen, John C.; and Larsen, Reidar G., to Texas Instruments, Incorporated. Connector. 3,689,865, 9-5-72, Cl. 339-172.000.
Pierlot, Michel Eugene, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Carburetion devices for internal combustion engine. 3,677,526, 7-18-72, Cl. 261-23.00a.
Pierman, Martin J.: *See*—
Obermaier, Alfred A.; and Pierman, Martin J., 3,688,576.
Obermaier, Alfred A.; and Pierman, Martin J., 3,702,566.
Pierno, Michael C.; and Figas, Vincent J. Small engine service center. 3,670,762, 6-20-72, Cl. 137-342.000.
Pieroh, Ernst Albrecht: *See*—
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Pierpont, George C.: *See*—
Kreml, John F.; Leibel, John M.; and Pierpont, George C., 3,666,580.
Pierpont, William H., Jr., to Koch Industries, Inc. Method of forming fiber glass pipe with integral joint thread. 3,661,670, 5-9-72, Cl. 156-172.000.
Pierre, Henri De Saint, to AMP Incorporated, mesne. Method of manufacturing an electrical connector. 3,652,758, 3-28-72, Cl. 264-249.
Pierre, Joseph Pingon. Tower crane with telescopic jib. 3,687,323, 8-29-72, Cl. 212-56.000.
Pierre-Dit-Mery, Jean-Marc, to Compagnie de Saint-Gobain. Process and apparatus for tempering of glass by electrochemical ion exchange. 3,681,040, 8-1-72, Cl. 65-30.000.
Pierrel S.p.A.: *See*—
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Pierrot, Victor Charles, III, to Deere & Company. Delimbing and topping blade control linkage. 3,693,679, 9-26-72, Cl. 144-2.00z.
Pierson, Alexandre, to Commissariat a l'Energie Atomique. Method and device for modulating or stabilizing a neutron flux obtained from an ion accelerator. 3,657,539, 4-18-72, Cl. 250-83.1.
Pierson, Charles W., to Eastman Kodak Company. Ultrasonic splicing. 3,700,532, 10-24-72, Cl. 156-580.000.
Pierson, Daniel H. Board game apparatus. 3,655,194, 4-11-72, Cl. 273-131.
Pierson, Edward D.; Wright, James C.; de Rozario, Carl C.; and Nemeth, Peter, to Cutler-Hammer, Inc. Subfloor conveyor system and dolly therefor. 3,648,618, 3-14-72, Cl. 104-170.
Pierson, Howard P.: *See*—
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Pierson, Marvin B., to Armco Steel Corporation. Method for improving coating concentricity on metallic coated strands. 3,632,392, 1-4-72, Cl. 117-64.
Pierson, Marvin B., to Armco Steel Corporation. Apparatus for improving coating concentricity on metallic coated strands. 3,690,293, 9-12-72, Cl. 118-63.000.
Pierson, Neil W. Suspension system for tracked vehicles. 3,707,198, 12-26-72, Cl. 180-5.00r.
Pierson, Robert B.: *See*—
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Pierson, Robert M., to Environmental Structures, Inc., mesne. Inflatable shelter and method of erection. 3,638,368, 2-1-72, Cl. 52-2.
Pierson, Robert M., to Environmental Structures, Inc., mesne. Reinforced seam for sheet material. 3,661,693, 5-9-72, Cl. 161-101.
Pierson, William D., to Sparton Corporation. Velocity gauge. 3,664,175, 5-23-72, Cl. 73-1.
Piesach, Joel M., to Polaroid Corporation. Photographic film unit comprising silver halide and a dyeable stratum contained on a common support and process employing same. 3,658,524, 4-25-72, Cl. 96-3.
Piesche, Fritz, to Veb Druckmaschinenwerke Leipzig. Apparatus for threading of folding sheets. 3,654,004, 4-4-72, Cl. 156-91.
Pietch-Faber, Max August: *See*—
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Pieters, Leon Andre, to Image Analysing Computers Limited. Television camera tube residual charge removal. 3,683,108, 8-8-72, Cl. 178-7.200.
Pieters, William Johan Meindert; Freel, John; and Anderson, Robert Bernard, to Grace, W. R., & Co. Raney nickel activation using acid neutralization and product. 3,657,157, 4-18-72, Cl. 252-466.
Pieters, William Johan Meindert; Freel, John; and Anderson, Robert Bernard, to Grace, W. R., & Co. Regeneration of sulfur-poisoned Raney nickel catalyst. 3,674,707, 7-4-72, Cl. 252-413.000.
Pietro Laverda S.p.A.: *See—*
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Pietroski, Alex J., to General Motors Corporation. Blending device. 3,678,551, 7-25-72, Cl. 29-78.000.
Pietrucci, Andre; and Imbert, Pierre, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Process and device for cutting tobacco leaves. 3,659,620, 5-2-72, Cl. 131-146.
Pietrucci, Andre, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Apparatus for stemming tobacco leaves and separating the products obtained. 3,661,159, 5-9-72, Cl. 131-146.
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Pietrzak, Joe P.; Campbell, Lewis B.; and Strahan, Robert M., to General Motors Corporation. Freezing container with spillguard. 3,638,903, 2-1-72, Cl. 249-69.
Pietsch, Gerhard Joseph; and Lewis, Armand Francis, to American Cyanamid Company. Two-part adhesives comprising an isocyanate terminated prepolymer, an isocyanate reactive monomer and an unsaturated polyester. 3,644,569, 2-22-72, Cl. 260-835.
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Pietsch, Roy; and Lewis, Bernard L., to Radiation Incorporated. Liquid crystal optical cell with selected energy scattering. 3,675,989, 7-11-72, Cl. 350-160.00r.
Pietschmann, Helmut Richard, to Sybron Corporation. Speed control for dental handpieces. 3,676,931, 7-18-72, Cl. 32-27.000.
Piette, Emile Leon. Method of alleviating wrinkles on skin. 3,689,668, 9-5-72, Cl. 424-319.000.
Piette, Leonard A., to Taco, Inc. Vent for fluid flow metering device. 3,686,945, 8-29-72, Cl. 73-208.000.
Pietzonka, Helmut; and Schindler, Hans, to Braun Aktiengesellschaft. Arrangement of ignition electrodes of electrically ignited gas lighters. 3,704,085, 11-28-72, Cl. 431-264.000.
Pietzsch, Ludwig: *See—*
Peter, Kurt; Huhne, Gerd; Kauer, Harald; Overlach, Knud; and Schlicker, Volker, 3,638,212.
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Pifferi, Giorgio, to Gruppo Lepetit S.p.A. Substituted 2-benzoyl- and 2-cinnamoyl-isoxazolidines. 3,696,096, 10-3-72, Cl. 260-240.00j.
Pigage, Robert F.; Ryan, Arthur B.; and Smith, Robert E., to Gleason Works, The. Method for inspecting and adjusting cutter blades. 3,641,431, 2-8-72, Cl. 324-61.
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Pigors, Ernst, to Schaumann, Heinrich, & Co., G.m.b.H. Drum-type washing machine with a drying device. 3,691,649, 9-19-72, Cl. 34-243.000.
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Pihl, George E., to Miniature Electronic Components Corporation. Electromagnetic indicator. 3,678,426, 7-18-72, Cl. 335-234.000.
Pihl, George E., to Miniature Electronic Components Corporation. Three position electromagnetic indicator. 3,680,083, 7-25-72, Cl. 340-373.00r.
Pihl, George E., to Miniature Electronic Components Corporation. Manually resettable electromagnetic indicators. 3,704,462, 11-28-72, Cl. 340-373.000.
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Pike, Herbert J., to Stevens, J. P., & Co., Inc. Air yarn texturizer. 3,700,391, 10-24-72, Cl. 57-77.300.
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Pike, John E.; and Schneider, William P., to Upjohn Company, The. 15(R)-PGE, and related compounds. 3,639,463, 2-1-72, Cl. 260-488.
Pike, John W., to Struthers Scientific and International Corporation. Method of autoclaving building blocks. 3,672,009, 6-27-72, Cl. 25-133.000.
Pike, Roscoe A., to United Aircraft Corporation. Process for regenerating surface activity in oxidatively treated graphite fibers. 3,695,916, 10-3-72, Cl. 117-47.00r.
Pike, Winthrop Selley, to RCA Corporation. Electrical circuit. 3,670,179, 6-13-72, Cl. 307-221.000.
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Pilarczyk, Karol, to Carrier Corporation, mesne. Method of changing capacity of fluid reaction device. 3,664,001, 5-23-72, Cl. 29-156.4.
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Pilcher, Frank C., to Hercules Incorporated. Apparatus for manufacture of film. 3,684,421, 8-15-72, Cl. 425-327.000.
Pilditch, Robert M. Joining process for the assembly of decorative, stained glass. 3,676,920, 7-18-72, Cl. 29-472.500.

Pile, David Stanley: *See*—
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Pilgram, Kurt H.; and Skiles, Richard D., to Shell Oil Company. 5-(Substituted mercapto, sulfinyl, sulfonyl or sulfamoyl). 3,658,830, 4-25-72, Cl. 260-306.8.
Pilgram, Kurt H. G., to Shell Oil Company. Production of 2-nitrochlorobenzenes. 3,657,355, 4-18-72, Cl. 260-609.
Pilgram, Kurt H. G., to Shell Oil Company. Aromatic sulfonyl azides. 3,692,805, 9-19-72, Cl. 260-349.000.
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Pilipovich, Donald; and Schack, Carl J., to North American Aviation, Inc. Method of preparing $OClF_3$. 3,692,476, 9-19-72, Cl. 423-466.000.
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Pilipovich, Donald, to North American Rockwell Corporation. Rocket oxidizer composition. 3,707,413, 12-26-72, Cl. 149-109.000.
Pilish, Andre, to Pennstar Company, The. Prefabricated buildings. 3,706,168, 12-19-72, Cl. 52-234.000.
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Bamford, Charles Raymond, 3,689,304.
Branch, Geoffrey Hindle; Hall, James Edward; Bickerstaff, Kenneth; and Russell-Rayner, Albert Patrick, 3,680,677.
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Pilling, Arthur F., to United States Steel Corporation. Work twister for rolling mill. 3,699,795, 10-24-72, Cl. 72-231.000.
Pilling, Brian. Dye lightfastness of acrylic substrates with triazine compounds. 3,637,337, 1-25-72, Cl. 8-4.
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Pillon, Daniel; and Ducret, Jacques, to Pechiney-Progil. N-furfuryl-monophosphoryl ethylene diamines. 3,702,332, 11-7-72, Cl. 260-347.700.
Pillot, Maurice; and Kilian, Louis, to Automobiles Peugeot and Regie Nationale des Usines Renault. Support device for machining workpieces. 3,703,847, 11-28-72, Cl. 90-58.00c.
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Pinckaers, Balthasar H., to Honeywell Inc. Automatically resetting motor protection circuit responsive to overcurrent and overtemperature. 3,660,718, 5-2-72, Cl. 317-13.
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Pincock, Richard E.; and Scott, William Bruce, to Canadian Patents and Development Limited. Adamantane derivatives. 3,649,702, 3-14-72, Cl. 260-666.

Pincoffs, Peter H.; and Tisdale, Glenn E., to Westinghouse Electric Corporation. Classification method and apparatus for pattern recognition systems. 3,638,188, 1-25-72, Cl. 340-146.3.
Pincus, Alexis G.: *See—*
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Pindell, Stuart M., Jr.; Johnson, Donald J.; Fickes, Robert E.; Perry, Malcolm R.; and Radcliffe, Wayne K., to Datcon Instrument Company, mesne. Elapsed time indicator. 3,635,011, 1-18-72, Cl. 58-41.
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Pines, Seemon H. 5-Halo-bicyclo [2,2,2,] oct-2-eve-1.4 dicarboxylic acid. 3,688,005, 8-29-72, Cl. 260-468.00b.
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Piper, William S.; and Polak, Teodor. Electrically heated hypodermic needle. 3,698,394, 10-17-72, Cl. 128-303.100.
Pipes, George R., to Eaton Corporation. Warehouse apparatus with an airbearing supported stacker. 3,655,074, 4-11-72, Cl. 214-16.4.
Pipitone, Roberto, to Societa Italiana Telecomunicazioni Siemens S.p.A. Print hammer for high-speed printer. 3,643,594, 2-22-72, Cl. 101-93.
Pipkin, Edward L., to United States of America, Navy. Resonant target sonar system. 3,705,381, 12-5-72, Cl. 340-3.00r.
Pipkins, David D., to Valspar Corporation, The. Method for keeping paint tanks clean. 3,699,982, 10-24-72, Cl. 134-22.00r.
Pipkins, David D., to Valspar Corporation, The. Method for manufacturing paints and inks, and product produced thereby. 3,705,044, 12-5-72, Cl. 106-20.000.
Pippen, William C., to National Lead Company. Employment of bentonite in brine muds. 3,691,070, 9-12-72, Cl. 252-8.50b.
Pippin, Reginald F., Jr. Propelled toy arrangement. 3,646,702, 3-7-72, Cl. 46-74.
Pippin, Reginald F., Jr. Reaction toy arrangement and method. 3,683,544, 8-15-72, Cl. 46-74.00b.
Piqua Aircraft Co. (Inc.): *See—*
Hartzell, James R.; and Reas, Arley J., 3,689,175.
Piquerez, Ervin. Protective screen for a timepiece casing. 3,643,423, 2-22-72, Cl. 58-88.
Piquerez, Ervin; deceased (by Scholler, Ami; and Bandelier, Edouard; executors). Tamper proof watch cases. 3,683,615, 8-15-72, Cl. 58-88.00r.
Piquerez, Ervin; deceased (by Scholler, Ami; and Bandelier, Edouard; executors). Tight control member for watch movement. 3,699,767, 10-24-72, Cl. 58-90.00b.
Pircher, Georges: *See—*
Cahen, Olivier; Picquendar, Jean-Edgar; and Pircher, Georges, 3,648,048.
Pirelli, Maria Marinelli. Composite screen for luminous projections with three dimensional effect. 3,682,527, 8-8-72, Cl. 350-123.000.
Pirelli Societa per Azioni Centro Pirelli: *See—*
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Pirelli, S.p.A.: *See—*
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Lombardi, Luigi, 3,677,849.
Olcelli, Gian Battista; Caliari, Sergio; and Montessori, Giuseppe, 3,686,632.
Piret, Jean: *See—*
Maurice, Jean; and Piret, Jean, 3,636,795.
Piret, Jean, to Regie Nationale des Usines Renault and Automobiles Peugeot. Automotive transverse-mounted power units. 3,703,107, 11-21-72, Cl. 74-695.000.
Piretti, Giancarlo: *See—*
Castelli, Leonida; and Piretti, Giancarlo, 3,656,806.
Piretti, Giancarlo; and Castelli, Leonida, to Anonima Castelli S.A.S. Three position folding seat. 3,705,744, 12-12-72, Cl. 297-55.000.
Pirie, Donald K., to Pfizer Inc. (2-Substituted-5-oxo-cyclopent-1-enyl)esters of α-carboxyarylmethyl penicillins. 3,647,783, 3-7-72, Cl. 260-239.1.
Pirie, John Chapman: *See—*
Davis, Francis Cecil; and Pirie, John Chapman, 3,650,852.
Pirig, Wolf-Dieter: *See—*
Gabler, Hellmut; Harnisch, Heinz; Heymer, Gero; Merkenich, Karl; and Pirig, Wolf-Dieter, 3,639,287.
Grimm, Dieter; Kandler, Joachim; Merkenich, Karl; and Pirig, Wolf-Dieter, 3,676,352.
Piringer, Fritz. Method and devices for the determination of colors and color tolerances in a visual manner in any kind of artificial light or sunlight. 3,653,771, 4-4-72, Cl. 356-194.
Piringer, Fritz. Method and devices for the determination of colors and color tolerances in a visual manner in any kind of artificial light or sunlight. 3,672,780, 6-27-72, Cl. 356-195.000.
Pirker, Hans: *See—*
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Pirkey, Edward: *See—*
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Pirnik, Michael P.: *See—*
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Pirolli, Claude Marius: *See—*
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Piron, Jean Gustave. Process for making a dry transfer material. 3,684,544, 8-15-72, Cl. 117-3.100.
Pirooz, Perry P., to Owens-Illinois, Inc. Methods of making opal glass articles. 3,645,711, 2-29-72, Cl. 65-33.
Pirooz, Perry P., to Owens-Illinois, Inc. Opalizable borosilicate glass compositions. 3,647,490, 3-7-72, Cl. 106-54.
Pirot, Ernst: *See—*
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Pirotta, Angelo, to Racing Tack di Angelo Pirotta & C.S.a.a. Harness for attaching a horse to a vehicle. 3,672,124, 6-27-72, Cl. 54-38.000.
Pirovano, Dante: *See—*
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Pirrello, Angelo, to Clinton Industries, Inc. Automatic emblem sewing apparatus. 3,675,602, 7-11-72, Cl. 112-121.290.
Pirrello, Antonio; and Campbell, Robert, to General Motors Corporation. Test apparatus for depressing vehicle brake and accelerator pedals. 3,662,593, 5-16-72, Cl. 73-132.
Pirro, Michael S., to Swift & Company. Method and apparatus for filling cartons. 3,691,717, 9-19-72, Cl. 53-35.000.
Piryatinsky, Viktor Maxovich: *See—*
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Pisanchyn, John; Fuhrmann, Robert; Sifniades, Stylianos; and Tunick, Allen Abraham, to Allied Chemical Corporation. Process for the preparation of lysine. 3,681,460, 8-1-72, Cl. 260-566.00a.
Pisani, James M.: *See—*
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Pisani, Marino J.: *See—*
Deli, Jack M.; Kowaczyk, Frank J.; Fanslow, Ronald J.; and Pisani, Marino J., 3,645,350.
Pisarek, Bernadette M. Cotton extractor. 3,703,977, 11-28-72, Cl. 221-213.000.
Pisarev, Nikolai Dmitrievich: *See—*
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Pisaroni, Giuseppe. Machine for closing the groove and smoothing the sole in a shoe. 3,681,803, 8-8-72, Cl. 12-29.000.
Pisaturo, Joseph, to State Battery Co., Inc. Method of cleaning battery terminals and the like. 3,661,642, 5-9-72, Cl. 134-28.
Pisecker, Johann, to Aktiengessellschaft Brown, Boveri & Cie. Subsychronous static converter cascade. 3,683,251, 8-8-72, Cl. 318-237.000.
Pissarevsky, Gregory J. Ornamental watch case. 3,635,703, 1-18-72, Cl. 75-171.
Pissiotas, Georg: *See—*
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Pistilli, Donald J.; and Degginger, Edward R., to Allied Chemical Corporation. Method for perfecting aircraft emergency landing. 3,679,462, 7-25-72, Cl. 117-105.500.
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Pitasi, Carl R.; and Young, Eugene F., to Xerox Corporation. Biased electrode transfer apparatus. 3,633,543, 1-11-72, Cl. 118-621.
Pitasi, Carl R., to Xerox Corporation. Magnetic brush development apparatus. 3,665,891, 5-30-72, Cl. 118-637.
Pitches, Brian Edward; and Murray, Srobert Malcolm Stuart, to Ferranti Limited. Airflow direction indicators. 3,665,760, 5-30-72, Cl. 73-188.000.
Pitchford, Armin C., to Phillips Petroleum Company. Asphaltene-derived surfactant composition and its preparation. 3,646,120, 2-29-72, Cl. 260-515.
Pitchford, Armin C.; and DeVault, Albert N., to Phillips Petroleum Company. Steam treatment of sulfur-containing heavy crude oil or oil residue with a combination catalyst comprising a hydrogenation-desulfurization catalyst and an overbased jet fuel contaiing an alkaline earth or alkali metal alkyl phenol complex. 3,649,527, 3-14-72, Cl. 208-217.
Pitchford, Armin C., to Phillips Petroleum Company. Upgrading of crude oils. 3,676,331, 7-11-72, Cl. 208-112.000.
Pitchford, Richard L., to Bausch & Lomb Incorporated. Cross cylinder flip mechanism. 3,698,799, 10-17-72, Cl. 351-28.000.
Pitchon, Esra: *See—*
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Pitchon, Esra, to General Foods Corporation. Process for removing deleterious acid components from steamed coffee. 3,644,123, 2-22-72, Cl. 99-71.
Pitchon, Esra, to General Foods Corporation. Process for obtaining coffee aromatics. 3,653,910, 4-4-72, Cl. 99-71.
Pitchon, Esra; Gottesman, Martin; and Meier, Robert W., to General Foods Corporation. Process for manufacture of coffee extract. 3,655,398, 4-11-72, Cl. 99-71.
Pitchon, Esra; and Earle, Ernest L., Jr., to General Foods Corporation. Instant coffee and process for making same. 3,655,399, 4-11-72, Cl. 99-71.
Pitetti, Raymond C.; and Zuber, Theodore W., Jr., to Bell Telephone Laboratories, Incorporated. Electrochemical etching technique for charting and curing defects in thin film capacitors. 3,649,488, 3-14-72, Cl. 204-143.
Pitetti, Raymond Charles; and Worobey, Walter, to Bell Telephone Laboratories, Incorporated. Thin film capacitor including an aluminum underlay. 3,671,823, 6-20-72, Cl. 317-258.000.
Pitha, John J., to General Electric Company. Porous ceramic insulating material and method of making employing wax. 3,698,920, 10-17-72, Cl. 106-41.000.
Pithan, Fritz: *See—*
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Pitkjaan, Elam, to Westinghouse Electric Corporation. Vehicle headlamp having a dual-segment reflector. 3,688,149, 8-29-72, Cl. 313-114.000.
Pitman, James Arnold. Reinforcing apparatus. 3,655,237, 4-11-72, Cl. 296-28.
Pitman, Richard W., to Varityper Corporation. Keyboard for a printing machine. 3,669,236, 6-13-72, Cl. 197-98.000.
Pitman, Robert L.: *See—*
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Pitner, Alfred, to Nadella. Combined radial and thrust rolling bearing. 3,632,178, 1-4-72, Cl. 308-174.
Pitner, Alfred, 1/2 to Nadella. Universal joint. 3,660,989, 5-9-72, Cl. 64-17.
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Garfinkle, Marvin E.; Schmeck, Robert E.; and Tangard, Einar W., 3,633,693.
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Pitre, Davide: *See*—
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Pitroda, Satyan G.; and Rekiere, Bernard J., to GTE Automatic Electric Laboratories, Incorporated. Conference circuit for pulse code modulated telephony. 3,699,264, 10-17-72, Cl. 179-18.0bc.

Pitroda, Satyan G.; and Rekiere, Bernard J., to GTE Automatic Electric Laboratories Incorporated. Generator for digital pulse signal representative of analog signal pairs. 3,706,855, 12-19-72, Cl. 179-18.0es.

Pitsch, Johan Ludwig; and Charbonnier, Gerard, to Compagnie Generale d'Electricite and Compagnie Generale d'Automatisme. Apparatus including initial electrode charge maintaining means for measuring the concentration of an electrolyte. 3,659,193, 4-25-72, C. 324-29.

Pitt, Colin G., to Lilly, Eli, and Company. Cyclopenta [b] phenanthrene steroid analogue. 3,646,114, 2-29-72, Cl. 260-488.

Pitt, Colin G., to Lilly, Eli, and Company. Benz anthracene steroid analogue. 3,676,502, 7-11-72, Cl. 260-613.00r.

Pitt, Harold M.; and Simone, Raymond A., to Stauffer Chemical Company. Method of producing thiono- or dithio-phosphonic acid esters. 3,642,960, 2-15-72, Cl. 260-985.

Pitt, Richard E., to Owens-Corning Fiberglas Corporation. Method and apparatus for reducing torque changes in rock shafts. 3,704,878, 12-5-72, Cl. 267-182.000.

Pittaluga, Gennaro, to Fiat Soc. Per Azioni Azienda OM Stabilimento di Milano. Hoist for lift trucks. 3,651,891, 3-28-72, Cl. 187-9.

Pittaro, Richard J.: *See*—
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Pitteroff, Walter: *See*—
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Pitters Proprietary Limited: *See*—
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Pittet, Alan O.; Mason, Michael E.; Theimer, Ernst T.; and Tibbetts, Merrick S., to International Flavors & Fragrances Inc. Bicyclic pyrazines having from six to ten carbon atoms in the hydrocarbon ring. 3,686,177, 8-22-72, Cl. 260-250.00r.

Pittet, Alan O.; and Seitz, Eugene W., to International Flavors & Fragrances Inc. Flavoring compositions and processes. 3,687,692, 8-29-72, Cl. 99-140.00r.

Pittet, Alan O.; Muralidhara, Ranya; and Theimer, Ernst T., to International Flavors & Fragrances, Inc. Bicyclic dehydropiperazine compositions. 3,705,158, 12-5-72, Cl. 260-250.00r.

Pittett, Alan O.; and Muralidhara, Ranya, to International Flavors & Fragrances Inc. Flavoring and fragrance compositions. 3,705,121, 12-5-72, Cl. 260-250.00r.

Pitteway, Michael Lloyd Victor, to National Research Development Corporation. Apparatus for decoding graphic-display information. 3,675,230, 7-4-72, Cl. 340-324.00a.

Pitti, Corrado. Double-combed mechanism with alternate pneumatic operation for the shaking of the branches of the olive trees and the gathering of its fruits. 3,651,627, 3-28-72, Cl. 56-328.

Pitti, Joseph J.; and Tassone, George A., to Atreo Manufacturing Co., Inc. Pool cover. 3,667,070, 6-6-72, Cl. 4-172.12.

Pittman, Allen G.: *See*—
Wasley, William L.; and Pittman, Allen G., 3,706,594.
Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L., 3,632,391.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Treatment of textiles with aziridine-modified polyurethanes. 3,632,556, 1-4-72, Cl. 260-75.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fluorinated esters and preparation thereof. 3,637,791, 1-25-72, Cl. 260-456.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Siloxane polymers for soil-repellent and soil-release textile finishes. 3,639,156, 2-1-72, Cl. 117-139.5.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fluorinated epoxides and use thereof. 3,653,956, 4-4-72, Cl. 117-139.5.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Polymers for soil-release textile finishes. 3,654,244, 4-4-72, Cl. 260-79.7.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fluorinated alcohols and their esters. 3,674,820, 7-4-72, Cl. 260-408.000.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Treatment of textile fibers. 3,698,856, 10-17-72, Cl. 8-115.500.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Preparation of fluorinated alcohols. 3,701,752, 10-31-72, Cl. 260-6.50f.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. 1,4-Bis-(heptafluoroisopropoxy)-2,3-epoxybutane. 3,701,792, 10-31-72, Cl. 260-348.00r.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Siloxane polymers for soil-repellent and soil release textile finishes. 3,702,859, 11-14-72, Cl. 260-448.20b.

Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fluorinated alcoholates. 3,702,870, 11-14-72, Cl. 260-617.00r.

Pittman, Carl R.; and Long, James A. Touch tuning and control circuits. 3,691,298, 9-12-72, Cl. 179-1.0vl.

Pittman, Cornelius P., to Beckman Instruments, Inc. High voltage short duration pulse generator. 3,638,044, 1-25-72, Cl. 307-264.

Pittman, Ed P.; and Stanford, Roy A., to United States of America, Navy. Electric field sensor. 3,641,427, 2-8-72, Cl. 324-9.

Pittman, Forrest C., to Halliburton Company. Apparatus and method for pipeline testing. 3,695,301, 10-3-72, Cl. 138-97.000.

Pittman, James E. Engine timing light. 3,693,148, 9-19-72, Cl. 340-52.00p.

Pittman, Loyd W.; deceased (by Pittman, Ruth; surviving spouse and heir). Multiple masking attachment for photo easel. 3,667,844, 6-6-72, Cl. 355-54.000.

Pittman, Maurice B. Rear view mirror wiper mechanism. 3,685,087, 8-22-72, Cl. 15-250.240.

Pittman, Phillip D.; and Peters, Michael L., to Endura Board International, Inc. Display sign. 3,696,541, 10-10-72, Cl. 40-142.000.

Pittman, Robert B.; and Keere, Walter P., said Pittman assor. to Industrial Electronic Hardware Corporation. Printed circuit board connector. 3,639,888, 2-1-72, Cl. 339-75.

Pittman, Ruth: *See*—
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Pitts, Bobby L. Textile package adaptor. 3,695,561, 10-3-72, Cl. 242-46.400.

Pitts, Charles A., to Dow Chemical Company, The. Slip and drag block assembly. 3,705,624, 12-12-72, Cl. 166-216.000.

Pitts, Curtis H. Biplane construction. 3,695,557, 10-3-72, Cl. 244-45.00r.

Pitts, James J., to Olin Corporation. Flame retardant polyurethane foam. 3,661,809, 5-9-72, Cl. 260-2.5aj.

Pitts, James J.; and Scott, Peter H., to Olin Corporation. Flame retardant polyurethane foam. 3,697,456, 10-10-72, Cl. 260-2.5aj.

Pitts, Robert W.: *See*—
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Pittsburgh Activated Carbon Company: *See*—
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Vargiu, Silvio; Pitzalis, Mario; and Abruzzi, Pierluigi, 3,705,117.

Pitzalis, Mario; Vargiu, Silvio; and Nistri, Ugo, to Societa Italiana Resine S.p.A. Rosin modified phenolic resins and method of preparing same. 3,674,732, 7-4-72, Cl. 260-25.000.

Pitzer, Dorman C.; Braddock, Walter B.; Swann, Richard C. G.; and Pyne, Anthony E., to International Telephone and Telegraph Corporation. Dielectric structure for semiconductor device. 3,649,888, 3-14-72, Cl. 317-235.

Pitzer, Emory W., to Phillips Petroleum Company. Activation of an oxidative dehydrogenation catalyst. 3,681,258, 8-1-72, Cl. 252-437.000.

Pitzer, Emory W., to Phillips Petroleum Company. Catalytic dehydrogenation. 3,686,346, 8-22-72, Cl. 260-680.00e.

Pitzer, Emory W., to Phillips Petroleum Company. Impregnation with tin for strong oxidative dehydrogenation catalysts. 3,687,868, 8-29-72, Cl. 252-435.000.

Pitzer, Thomas D.; Metzger, John A.; and Lamberty, John M., said Pitzer and said Metzger assors. to Kaiser Aluminum & Chemical Corporation. Workpiece handling and conveyor apparatus. 3,642,188, 2-15-72, Cl. 228-36.

Pivar, Stewart. Apparatus for molding hollow plastic articles. 3,676,037, 7-11-72, Cl. 425-435.000.

Pivar, Stewart, to Rototron Corporation. Apparatus for molding hollow objects from thermoplastic materials. 3,703,348, 11-21-72, Cl. 18-26.

Pivonka, William J. Vehicle stabilization apparatus. 3,652,101, 3-28-72, Cl. 280-6.1.

Pivot Punch Corporation: *See*—
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Piwonka, Thomas S.; and Hanna, James V., to TRW Inc. Melting of refractory and reactive metals. 3,682,458, 8-8-72, Cl. 266-33.00r.

Pizante, Jack H., to Texas Instruments, Incorporated. Method for locating impedance discontinuities in a wave propagating medium. 3,691,529, 9-12-72, Cl. 340-15.5dp.

Pizzella, Raymond R. Disposable bag for medical uses. 3,683,918, 8-15-72, Cl. 128-283.000.
Pizzey, Peter Ernest, to Thomas, Frederick, & Company Limited. Lighting unit. 3,679,886, 7-25-72, Cl. 240-3.
Pizzimenti, Roger Philip; and Satcher, James Ware, Jr. Motor vehicle all-weather forward view mirror. 3,697,157, 10-10-72, Cl. 350-302.000.
Pizzini, Georges Philippe Henri: *See—*
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Pizzini, Louis C.; Demou, John G.; Patton, John T., Jr.; and Levis, William W., Jr., to BASF Wyandotte Corporation. Graft copolymers of acrylonitrile on unsaturated polyols. 3,652,639, 3-28-72, Cl. 260-465.4.
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Plachenov, Tikhon Grigorievich; Belotserkovsky, Grigory Markovich; Dolgova, Ekaterina Nikolaevna; Ezhov, Jury Valentinovich; Fogel, Vladimir Alexandrovich; Benediktov, Andrei Pavlovich; and Avilov, Iliya Yakovlevich, to Leningradsky Tekhnologichesky Imeni ensoveta. Dehumidifying composition and a method for preparing the same. 3,704,806, 12-5-72, Cl. 220-64.000.
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Planchon, Jean. Faceted reflector. 3,700,882, 10-24-72, Cl. 240-41.360.
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Plank, Charles J.; Waldo, Pharez, G.; and Doherty, Harry G., to Mobil Oil Corporation. Two stage reforming process. 3,669,875, 6-13-72, Cl. 208-65.000.
Plank, Charles J.; and Rosinski, Edward J., to Mobil Oil Corporation. Zeolite-containing catalyst, synthesis and use thereof. 3,676,330, 7-11-72, Cl. 208-111.000.
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Plasser, Franz; and Theurer, Josef. Mobile apparatus for laying track ties. 3,638,577, 2-1-72, Cl. 104-6.
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Plasser, Franz; and Theurer, Josef. Mobile track working apparatus. 3,680,486, 8-1-72, Cl. 104-1.000.
Plasser, Franz; and Benda, Ekkehardt, to Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile track surfacing machine. 3,682,101, 8-8-72, Cl. 104-12.000.
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Plasser, Franz; and Theurer, Josef. Track correction and tamping machine. 3,690,262, 9-12-72, Cl. 104-7.00r.
Plasser, Franz; and Theurer, Josef. Track lining apparatus. 3,690,263, 9-12-72, Cl. 104-8.000.
Plasser, Franz; and Theurer, Josef. Mobile track working apparatus. 3,690,264, 9-12-72, Cl. 104-17.00r.
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Plasser, Franz; and Theurer, Josef. Track working apparatus with laser beam reference. 3,706,284, 12-19-72, Cl. 104-7.00b.
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Pless, Uwe, to U.S. Philips Corporation. Etchant for selectively etching patterns in thin silicon dioxide layers and method of preparing such an etchant. 3,671,437, 6-20-72, Cl. 252-79.300.
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Plester, Karl Heinz; and Hessel, Heinz, to Gewerkschaft Eisenhutte Westfalia. Telescopic props. 3,656,411, 4-18-72, Cl. 92-51.
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Plichta, Michael J., to McGraw-Edison Company. Directional current relay. 3,673,425, 6-27-72, Cl. 307-127.000.
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Plostnieks, Janis, to McNeil Laboratories, Inc. Aralkyl penta-and hexamethylenimine. 3,637,659, 1-25-72, Cl. 260-239.
Plostnieks, Janis, to McNeil Laboratories, Inc. Carbostyril derivatives. 3,637,846, 1-25-72, Cl. 260-558.
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Plotnikoff, Nicholas Peter, to Abbott Laboratories. Combination of 1-dopa and 2-imino-5-phenyl-oxazolidinone used to treat Parkinson's disease. 3,686,409, 8-22-72, Cl. 424-272.000.
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Plotnikoff, Nicholas Peter, to Abbott Laboratories. 2-Imino-5-phenyl-4-oxazolidinone and a potentiating agent to treat Parkinson's disease. 3,689,644, 9-5-72, Cl. 424-157.000.
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Plumat, Emile; and Leger, Lucien F., to Glaverbel S.A. Diffusion treatments of selected body surface portions by electric arc. 3,645,710, 2-29-72, Cl. 65-30.
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Plumat, Emile; and Toussaint, Francois, to Glaverbel S.A. Ion exchange of glass with use of carbon dioxide. 3,674,454, 7-4-72, Cl. 65-30.000.
Plumat, Emile; and Van Laethem, Robert, to Glaverbel S.A. Physically strengthening bodies made of at least partly vitreous material. 3,676,097, 7-11-72, Cl. 65-33.000.
Plumat, Emile, to Glaverbel S.A. Chemical tempering process for glass by spraying. 3,677,729, 7-18-72, Cl. 65-30.000.
Plumat, Emile; Bohain, Pierre; and Servais, Albert, to Glaverbel S.A. Formation of thin oxide layers. 3,683,848, 8-15-72, Cl. 118-49.000.
Plumat, Emile, to Glaverbel S.A. Application of metal coatings by the seizure method. 3,700,496, 10-24-72, Cl. 117-211.000.
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Plumer, Lawrence H., to Rutland Fire Clay Company. Shut-off nozzle for caulking cartridge. 3,640,431, 2-8-72, Cl. 222-48.
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Plump, Ralph E.; and Backiel, Robert M., to United States of America, Army. Fog dispersal. 3,690,552, 9-12-72, Cl. 239-2.00r.
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Pobst, John R. Fishing fly. 3,690,029, 9-12-72, Cl. 43-42.250.
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Podebradsky, Everett V. Method of preparing fresh pork sausage having improved color. 3,687,689, 8-29-72, Cl. 99-109.000.

Podell, Howard I., to United Shoe Machinery Corporation. Self-locking threaded fasteners. 3,631,702, 1-4-72, Cl. 72-88.

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Podesta, William L.; and Miles, Charles R., Jr. Automatic engine starter system including means for releasing the fast idle cam. 3,653,699, 4-4-72, Cl. 290-37.

Podesva, Ctirado; and Vagi, Kitty. Reaction product of 7-chloro-1-methyl-5-phenyl -1,4-3H-benzodiazepine 2(1H)-one with chloral hydrate and process. 3,682,888, 8-8-72, Cl. 260-239.300.

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Podgurski, Harry H., to United States Steel Corporation. Method for maintaining nitriding atmosphere. 3,684,590, 8-15-72, Cl. 148-16.600.

Podhajny, Richard M., to Dick, A. B., Company. Novel photoconductive carbazole polymers and photoconductive elements embodying same. 3,697,264, 10-10-72, Cl. 96-15.000.

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Podmore, Alan William Ronald, to AMP Incorporated. Box edge electrical connector. 3,633,152, 1-4-72, Cl. 339-91.

Podmore, Alan William Ronald, to AMP Incorporated, mesne. Flat cable connector. 3,675,180, 7-4-72, Cl. 339-17.00f.

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Podolan, Edward G., to General Motors Corporation. Window regulator. 3,702,041, 11-7-72, Cl. 49-348.000.

Podolsky, Viktor Grigorievich; Balkarei, Iosif Mikhailovich; and Grigoriyants, Sergei Mikhailovich, to Proektny I Nanchno-Issledovatelsky Institut. Vibration-absorbing support. 3,705,702, 12-12-72, Cl. 248-20.000.

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Podwys, Stanley, to General Motors Corporation. Support members for a convertible top. 3,666,317, 5-30-72, Cl. 296-116.000.

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Poe, Lloyd Richard, to Hartwell Corporation The. Energy absorbing device. 3,696,891, 10-10-72, Cl. 188-1.00c.

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Poehler, Guenter; Suter, Hubert; Wirth, Friedrich; and Walter, Johann Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of phthalic anhydride. 3,686,229, 8-22-72, Cl. 260-346.400.

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Poel, Dirk E.; Medema, Dirk; Van Helden, Robert; Ferkes, Nanno; Bergmann, Elliot; and Wood, Jack, to Shell Oil Company. Process for the preparation of substituted vinyl esters of acids of phosphorus. 3,658,953, 4-25-72, Cl. 260-970.

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Poettmann, Fred H.; and Jones, Stanley C., to Marathon Oil Company. High water content micellar dispersions useful as hydraulic fluids. 3,639,277, 2-1-72, Cl. 252-78.

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Pogonowski, Ivo C., to Texaco Inc. Reversed slope skirt pile marine platform anchoring. 3,638,436, 2-1-72, Cl. 61-46.5.

Pogonowski, Ivo C., to Texaco Inc. Flexible storage container for off-shore facility. 3,643,447, 2-22-72, Cl. 61-46.

Pogonowski, Ivo C.; and Carmichael, Paul D., to Texaco Inc. Liquid storage facility including self-actuating discharge conduit. 3,654,951, 4-11-72, Cl. 137-355.16.

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Pommer, Horst; Mueller, Herbert; and Overwien, Hermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alk-1-en-6-ones. 3,655,768, 4-11-72, Cl. 260-593.

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Pommerening, Uwe A., to Stromberg-Carlson Corporation. Frequency discriminator circuit for selecting one of two clock signals. 3,688,201, 8-29-72, Cl. 328-133.000.

Pommerening, Uwe A.; and Russell, Stanley L. Call metering for telephone exchange. 3,697,695, 10-10-72, Cl. 179-7.0mm.

Pommeret, Henri Louis Etienne. Method and apparatus for producing vibrations or impulses. 3,670,223, 6-13-72, Cl. 318-124.

Pommie, Pierre. Multi-purpose cart and mixer. 3,638,923, 2-1-72, Cl. 259-177.

Pommier, Pierre, to Societe Anonyme dite: CEFILAC. Method of setting fire rings in cylinder head gaskets. 3,694,889, 10-3-72, Cl. 29-412.000.

Pompeo, Louis, to Duchess Mfg. Corporation. Watch band and a method for manufacturing the same. 3,682,603, 8-8-72, Cl. 29-160.600.

Pompeo, Louis, to Duchess Mfg. Corporation. Tapered wrist band. 3,690,064, 9-12-72, Cl. 59-35.000.

Pomper, Anthony W.; and Kovacs, Lloyd, to Midland-Ross Corporation. Extruder and screw therefor with undercut melt conducting channel. 3,671,021, 6-20-72, Cl. 259-109.000.

Pompey, Walter, to W-L Molding Company. Roller and retainer for a wire basket. 3,672,743, 6-27-72, Cl. 312-352.000.

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Pond, Robert B., Sr., to United States Steel Corporation. Method of quenching metal filament in froth. 3,685,568, 8-22-72, Cl. 164-89.000.

Pondelicek, William J.; and Schmidt, Vernon F., to Heick Die Casting Corporation. Method and apparatus for lubricating a closed die structure. 3,645,319, 2-29-72, Cl. 164-72.

Ponder, Charles L. Nursing bottle. 3,704,803, 12-5-72, Cl. 215-11.00a.

Pongracz, Lajos. Parking damage prevention. 3,692,139, 9-19-72, Cl. 180-94.000.

Pons, Henry W. Hydrogenation of nitrobenzenes. 3,683,025, 8-8-72, Cl. 260-575.000.

Ponsa, Carlos Sauret. Process to make cock and specifically water faucets. 3,686,733, 8-29-72, Cl. 29-157.10r.

Ponsen, Catharinus M., 1/2 to Craig, Colin. Dock side cargo handling apparatus. 3,696,947, 10-10-72, Cl. 214-14.

Ponsold, Kurt; and Grosse, Peter, to VEB Jenapharm. Halogenaminocarbonyloxyl compounds of the steroid series. 3,663,580, 5-16-72, Cl. 260-397.200.

Pont, Dominique Etienne Louis, to Societe d'Etudes et de Developpement des Aeroglisseurs Marins Terrestres et Amphibies S.E.D.A.M. Fluid cushion machines. 3,661,110, 5-9-72, Cl. 114-66.5.

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Pontigny, Jacques A., to Coulter Electronics, Inc. Curve tracer. 3,700,992, 10-24-72, Cl. 318-568.000.

Ponting, Ivor, to Electrical Remote Control Company Limited. Cam assembly. 3,678,780, 7-25-72, Cl. 74-568.00r.

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Ponziani, Louis F., to Chrysler Corporation. Heat exchanger fin. 3,631,922, 1-4-72, Cl. 165-151.

Ponzini, Sandro; Castelli, Paolo; and Lewendel, Jean Stanislao, to Aziende Colori Nazionali Affini ACNA S.p.A. Quaternized reactive anthraquinone dyestuffs containing triazine and nicotinic acid groups. 3,639,398, 2-1-72, Cl. 260-249.

Ponzini, Sandro; Castelli, Paolo; and Stanislao, Jean Lawendel, to Aziende Colori Nazionale Affini Acna S.p.A. Quaternized reactive phthalocyanine dyestuffs containing triazine and nicotinic acid groups. 3,642,787, 2-15-72, Cl. 260-242.

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Pool, James Leland, to Lisle Corporation. Reversible pliers. 3,681,840, 8-8-72, Cl. 29-229.000.

Pool, Joseph Harbit. Methods of and apparatus for reducing resistant to the hull of a vessel. 3,690,283, 9-12-72, Cl. 114-67.00a.

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Pool, Samuel T. Trot line caster. 3,703,783, 11-28-72, Cl. 43-54.50a.
Pool, Stuart D.; and Meitl, Harold G., to International Harvester Company. Fruit and nut windrower. 3,667,200, 6-6-72, Cl. 56-328.00r.
Poola, Jagadeesan V., to PPG Industries, Inc. Method and apparatus for making glass windshields. 3,639,112, 2-1-72, Cl. 65-29.
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Poot, Albert Lucien, to Gevaert-Agfa N.V. Stabilization of photographic spiropyran compounds. 3,660,094, 5-2-72, Cl. 96-48.
Poot, Albert Lucien; Van Besauw, Jan Frans; and Depoorter, Henri, to Agfa-Gevaert. Diazotype recording process and material used therein. 3,676,133, 7-11-72, Cl. 96-49.000.
Poot, Albert Lucien; and Depoorter, Henri, to Agfa-Gevaert. Formation of dyes suited for reproduction purposes. 3,676,138, 7-11-72, Cl. 96-75.000.
Poot, Albert Lucien; and Depoorter, Henri, to Agfa-Gevaert. Diazo recording. 3,676,140, 7-11-72, Cl. 96-91.000.
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Poot, Simon, to N.V. Verenigde Instrumentenfabrieken Enraf-Nonius. Goniometric apparatus for an X-ray diffractometer. 3,636,347, 1-18-72, Cl. 250-51.5.
Popadick, Carl C.; and Talento, Joseph L., to General Electric Company. Method of making an electrode having a refractory metal arcing portion. 3,657,799, 4-25-72, Cl. 29-25.17.
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Pope, George A.; Hale, Peter T.; and Bird, David A., to Dunlop Company Limited, The. Block copolymers containing a polyethylene sulfide block. 3,646,167, 2-29-72, Cl. 260-879.
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Pope, Kenneth W., to Du Pont of Canada Limited, mesne. Prefabricated building panel. 3,646,715, 3-7-72, Cl. 52-309.
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Pope, Melkilah E., to Pope Manufacturing, Inc. Fish lure. 3,702,035, 11-7-72, Cl. 43-42.350.
Pope, Noel C.; Kempis, Edward B.; and O'Donovan, Kevin H. J., to Adamant Laboratories(Proprietary)Limited. High-pressure device. 3,642,412, 2-15-72, Cl. 425-356.
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Popham, Orville G. Paper towel rack. 3,706,421, 12-19-72, Cl. 242-55.200.
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Popinski, Leonard G., to Nedlog Company, The. Automatic liquid proportioner. 3,643,835, 2-22-72, Cl. 222-56.
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Poplawski, Eugene M., to Caterpillar Tractor Company. Air-over hydraulic brake system. 3,650,568, 3-21-72, Cl. 303-2.

Poplawski, Joel J.: *See—*
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Popov, Lev Mikhailovich: *See—*
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Popp, Jurgen; Jakob, Franz; and Mobius, Heinzhorst, to Hystron Fibers Incorporated. Sulfo-modified polyesters and shaped structures made therefrom. 3,634,541, 1-11-72, Cl. 260-75.

Popp, Ralph, to Westinghouse Air Brake Company. Overvoltage protection arrangement for power converters. 3,678,368, 7-18-72, Cl. 321-11.000.

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Poppe, Wassily; Khelghatian, Habet M.; and Fitzpatrick, James E., to Standard Oil Company. Platable polymers. 3,655,433, 4-11-72, Cl. 117-138.8.

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Poppe, Wassily; and Khelghatian, Habet M., to Standard Oil Company. Contact angle measurement of plastic surfaces. 3,696,665, 10-10-72, Cl. 73-104.000.

Poppe, Wassily W.: *See—*
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Poppendieck, Werner. Constant speed telephone dial return mechanism. 3,659,057, 4-25-72, Cl. 179-90.

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Popper, Jakhin Boaz, to Israel Ministry of Defence, The State of. Delayed arming device for the proximity fuse of a bomb. 3,653,325, 4-4-72, Cl. 102-70.2.

Popper, Jay D., to General Instrument Corporation. Self-biasing inverter. 3,678,293, 7-18-72, Cl. 307-214.000.

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Popper, Thomas L.; Herzog, Hershel L.; and Shapiro, Elliot L., to Schering Corporation. 6-Cyano-4,6-pregnadienes, methods for their manufacture, and intermediates thereof. 3,707,487, 12-26-72, Cl. 260-397.400.

Poppi, Mauro. Muffle kiln for the firing of glazed ceramic tiles. 3,637,199, 1-25-72, Cl. 263-28.

Poppl, Max: *See—*
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Popplewell, Alan Francis: *See—*
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Pops, Horace, to United States Steel Corporation. Method of making a dispersion-hardened ferrous alloy. 3,667,932, 6-6-72, Cl. 75-.5bc.

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Porepp, Bernd. Apparatus for forming a plastic article. 3,672,805, 6-27-72, Cl. 425-391.000.

Porepp, Hans. Slide fastener. 3,667,089, 6-6-72, Cl. 24-205.13c.

Porges, Karl G.: *See—*
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Pori, Inc.: *See—*
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Porner, Horst; Schabert, Hans-Peter; and Weber, Robert, to Siemens Aktiengesellschaft. Sealing ring. 3,690,685, 9-12-72, Cl. 277-235.00a.

Porous Plastics Limited: *See—*
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Porret, Daniel: *See—*
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Fatzer, Willy; Porret, Daniel; and Maurer, Juerg, 3,651,062.
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Porret, Daniel; Habermeier, Juergen; Seiz, Wolfgang; and Fatze, Willy, to Ciba Limited. Curable molding compositions comprising a polyepoxide and a hydantoin. 3,635,844, 1-18-72, Cl. 260-2.

Porret, Daniel; Habermeier, Juergen; and Seiz, Wolfgang, to Ciba Limited. Curable compositions of matter containing a polyepoxide and a hydrantoin compound. 3,635,845, 1-18-72, Cl. 260-2.

Porret, Daniel; Habermeier, Juergen; and Batzer, Hans, to Ciba Limited. Advanced addition products containing terminal epoxide groups. 3,640,910, 2-8-72, Cl. 260-2.

Porret, Daniel; and Habermeier, Juergen, to Ciba-Geigy AG. Bis-(1-α-aminopropyl-hydantoinyl-3)-alkanes. 3,697,539, 10-10-72, Cl. 260-309.500.

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Porsche, Ferdinand Alexander; and Bauer, Theodor, to Porsche, Dr.-Ing., H.c.F., K.G., Firma. Steering mechanism for a one-track slide vehicle. 3,635,487, 1-18-72, Cl. 280-16.

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Porsche, Ferdinand Alexander; and Bauer, Theodor, to Porsche, Dr.-Ing., H.c.F., K.G., Firma. Steering runner of a one-track sliding vehicle. 3,635,497, 1-18-72, Cl. 280-16.

Porsche, Ferdinand Alexander; and Bauer, Theodor, to Porsche, Dr.-Ing. H.c.F., Firma. Sliding vehicle. 3,658,357, 4-25-72, Cl. 280-16.

Porsche, Ferdinand Anton Ernst; and Srock, Rainer, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Passenger car with a roll yoke. 3,647,258, 3-7-72, Cl. 296-102.

Porsche, Ferdinand Anton Ernst; and Porsche, Ferdinand Alexander, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Wheel for automotive vehicles. 3,659,901, 5-2-72, Cl. 301-65.

Porst, Peter, to VEB Feuerloschgeratewerk Neuruppin. Method of stabilizing bromine-containing fire extinguishing halogenated hydrocarbon composition. 3,657,120, 4-18-72, Cl. 252-8.

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Port, Morton I., to Avisun Corporation, mesne. Method for making a multi-colored split polyolefin yarn. 3,639,573, 2-1-72, Cl. 264-75.

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Porta, Della Paolo; Giorgi, Tiziano A.; Kindl, Bruno; and Zucchinelli, Mario, to S.A.E.S. Getters S.p.A. Electrical capacitor. 3,654,533, 4-4-72, Cl. 317-258.

Porta, Paolo Della; and Rabusin, Elio, to S.A.E.S. Getters S.p.A. Gettering. 3,669,567, 6-13-72, Cl. 417-48.000.

Porta Service Inc.: *See—*
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Porta Systems Corporation: *See—*
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Portage Research & Development Corporation: *See—*
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Portain Poclain Materiel: *See—*
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Portal, Pierre, to S.A. Forges de Bologne. Method of and apparatus for forming parts with re-entrant surfaces. 3,680,381, 8-1-72, Cl. 72-354.000.

Porte, Gilbert R. A.: *See—*
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Portec, Inc.: *See—*
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Porteous, Andrew, to National Research Development Corporation. Method of and apparatus for the multi-flash distillation of liquids. 3,697,382, 10-10-72, Cl. 202-173.000.

Porter, Alan S.; and Whyte, David Thomas Kerr, to Electric Reduction Company of Canada Ltd. Method of removing beer stone, milk stone and railway carriage encrustatious using a diphosphonic acid. 3,634,257, 1-11-72, Cl. 252-87.

Porter, Allan W. H. Process and apparatus for storing weft yarn in looms. 3,680,600, 8-1-72, Cl. 139-122.00r.

Porter, Allan William Henry, to Saurer, Adolph, Ltd. Weft thread inserting method and apparatus. 3,662,786, 5-16-72, Cl. 139-125.000.

Porter, Allan William Henry, to Saurer, Adolph, Ltd. Braking shuttles in loom shuttle box. 3,670,775, 6-20-72, Cl. 139-185.000.

Porter, Allan William Henry, to Saurer, Adolph, Ltd. Method for shedding in weaving machines and device for performing the method. 3,685,550, 8-22-72, Cl. 139-55.000.

Porter, Andrew W.; and Sanders, John L., to Canadian Patents and Development Limited. Veneer machine roller pressure bar assembly. 3,670,790, 6-20-72, Cl. 144-213.000.

Porter, Bobby J.: *See—*
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Porter, C. O., Machinery Company: *See—*
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Porter, Curt C., to Merck & Co., Inc. Method of inhibiting dopamine β-hydroxylase. 3,701,831, 10-31-72, Cl. 424-251.000.

Porter, Curt C., to Merck & Co., Inc. Method of inhibiting dopamine β hydroxylase. 3,701,832, 10-31-72, Cl. 424-273.000.

Porter, David H.; and Biscoe, Thomas S., to Thomas Industries Inc. Lighting fixture support. 3,678,265, 7-18-72, Cl. 240-84.000.

Porter, Donald E.; and Paulus, Ray A. Orchard heating unit. 3,645,250, 2-29-72, Cl. 126-59.5.

Porter, Donald E.; and Burkholder, Jack, to Water and Gas Plastics Products. Plastic valve. 3,674,235, 7-4-72, Cl. 251-162.000.

Porter, Doris Lydia May: *See—*
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Porter, Edward B., Sr., to Ross Operating Valve Company. Indexing fluid control device. 3,635,250, 1-18-72, Cl. 137-625.63.

Porter, Erland C., Jr.: *See—*
Schleicher, Lowell; Miller, Robert E.; and Porter, Erland C., Jr., 3,697,371.

Porter, Ernest Henry Roberts: *See—*
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Porter, Ernest Henry Roberts, to Porter, Ernest Henry Roberts and Porter, Doris Lydia May. Heating apparatus. 3,659,518, 5-2-72, Cl. 99-386.

Porter, Frank K., Jr.; and Sonjara, Boris, to United States of America, Army. Elapsed time indicator. 3,706,865, 12-19-72, Cl. 200-83.00t.

Porter, H. K., Company, Inc.: *See—*
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Porter, Harry B.; and Weinhardt, Robert A., to United States of America, Navy. Release mechanism. 3,640,484, 2-8-72, Cl. 244-3.21.

Porter, Herschel D., to Lilly, Eli, and Company. 2,4-Di-(4-arylpiperazino)-3-pentanones for treating schistosomiasis. 3,639,602, 2-1-72, Cl. 424-250.

Porter, Herschel D., to Lilly, Eli, and Company. 2,4-Di-(4-arylpiperazino)-3-pentanones for treating schistosomiasis. 3,655,666, 4-11-72, Cl. 260-268.

Porter, Herschel D.; and Taylor, Harold M., to Lilly, Eli, and Company. Methods of treating helminth infections with thiourea derivatives. 3,659,012, 4-25-72, Cl. 424-322.

Porter, Herschel D., to Lilly, Eli, and Company. Substituted dispiropentadecanes. 3,669,986, 6-13-72, Cl. 260-326.50d.

Porter, Ian S., to Wilson & Longbottom Limited. Picking mechanism for looms for weaving. 3,665,970, 5-30-72, Cl. 139-20.

Porter, Ian S., to Wilson & Longbottom Limited. Gripper shuttles for looms for weaving. 3,669,156, 6-13-72, Cl. 139-125.

Porter, Irwin C.; Barcus, Jack L.; Bear, David L.; and Marshall, James E., to Mattel, Inc. Doll having time indicating means and record player co-ordinated therewith. 3,636,655, 1-25-72, Cl. 46-117.

Porter, John David: *See—*
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Porter, John H., to Ladd Research Industries, Inc. Electric-pneumatic junction. 3,649,948, 3-14-72, Cl. 339-16.

Porter, John H.; and Murray, David B., to Ladd Research Industries, Inc. Fiber optic pressure detector. 3,686,958, 8-29-72, Cl. 73-406.000.

Porter, John Halsted; and Ladd, William Alexander, to Ladd Research Industries, Inc. Tilting variable speed rotary shadower. 3,663,273, 5-16-72, Cl. 117-107.1.

Porter, John Howard: *See—*
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Porter, Kenneth; and Richardson, Brian, to Imperial Chemical Industries Limited. Polycondensation in poly(tetrafluoroethylene) reactor. 3,674,744, 7-4-72, Cl. 260-75.00m.

Porter, Kenneth E.; Ellis, Stephen R. M.; Ashton, Neil; and Hands, Clifford H. G., to Albright & Wilson Limited. Distillation apparatus. 3,687,818, 8-29-72, Cl. 202-158.000.

Porter, Kenneth R.: *See—*
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Porter, Laurence W., to Vaughan & Bushnell Mfg. Co. Hammerhead having an anti-slip and wear-resistant striking face surface. 3,640,324, 2-8-72, Cl. 145-29.

Porter, Lawrence C.; and Graves, Kenneth E., to Upjohn Company, The. Apparatus for producing isotropic foamed stock. 3,702,747, 11-14-72, Cl. 425-4.000.

Porter, Lawrence Christie, to Upjohn Company, The. Apparatus for producing isotropic foamed synthetic resin stock. 3,655,311, 4-11-72, Cl. 18-5.

Porter, Lew F.: *See—*
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Porter, Maurice Read: *See—*
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Porter, Percy L., to Porter, P. L., Co. Hydraulic lock refill valve. 3,659,684, 5-2-72, Cl. 188-322.

Porter, Philip J., to General Motors Corporation. Bulb outage indicator for multi-lamp circuits. 3,668,678, 6-6-72, Cl. 340-251.000.

Porter, Ralph Frederick; Schwan, Judith A.; and Gates, John W., Jr., to Eastman Kodak Company. 2-Tetrazolylthiohydroquinones. 3,639,417, 2-1-72, Cl. 260-308.

Porter, Richard C.: *See—*
McCune, Ray F.; and Porter, Richard C., 3,695,906.

Porter, Richard E.: *See—*
Sarbach, Ronald A.; and Porter, Richard E., 3,633,026.

Porter, Robert B.: *See—*
Johnson, Robert W.; and Porter, Robert B., 3,668,943.
Taylor, Lawrence B.; Bentz, Raymond L.; and Porter, Robert B., 3,706,535.

Porter, Robert B.; Ardelt, Clarence A.; and Storck, Robert C., to International Harvester Company. Tractor inching control utilizing a decelerator. 3,700,081, 10-24-72, Cl. 192-.070.

Porter, Roy A., to Bell Telephone Laboratories, Incorporated. Removal of boron and phosphorous-containing glasses from silicon surfaces. 3,669,775, 6-13-72, Cl. 156-17.000.

Porter, Roy Arlie, to Bell Telephone Laboratories, Incorporated. Technique for masking silicon nitride during phosphoric acid etching. 3,657,030, 4-18-72, Cl. 156-13.

Porter, Roy Donald, to Eastman Kodak Company. Method and apparatus for processing photographic film. 3,677,163, 7-18-72, Cl. 95-90.500.

Porter, Samuel, Jr.: *See—*
Makhlouf, Joseph M.; and Porter, Samuel, Jr., 3,686,111.

Porter, Selby, to Kalium Chemicals Limited. Top latch select liner with tailpipe and method of installing. 3,637,261, 1-25-72, Cl. 299-5.

Porter, Theodore L.: *See—*
Loren, Norman S.; and Porter, Theodore L., 3,704,795.

Porter, Verleon Henry, to Du Pont de Nemours, E. I., and Company. Dispersion polymerization of tetrafluoroethylene. 3,704,285, 11-28-72, Cl. 260-87.50a.

Porter, Virgle E., to Amtron, Inc. Multi-level spray control. 3,646,521, 2-29-72, Cl. 340-172.5.

Porter, Warren K., Jr.: *See—*
Franke, Norman W.; Paviak, Stanley C.; and Porter, Warren K., Jr., 3,706,676.

Porter, Warren K., Jr., to Gulf Research & Development Company. Method of making stable, low viscosity wax-in-water emulsions. 3,671,457, 6-20-72, Cl. 252-311.500.

Porter, Warren Wesley: *See—*
Blake, Richard K.; De Hilster, Robert J.; and Porter, Warren Wesley, 3,665,113.

Porter, Warren Wesley, to North Electric Company. Mechanical storage means for repertory dialer. 3,653,005, 3-28-72, Cl. 340-173.

Porter, William D.: *See—*
Taylor, Larry H.; Porter, William D.; Anderson, William J.; and Caneer, Ralph A., 3,697,007.

Porter, William D., to Northrop Carolina, Inc. Yarn handling apparatus. 3,690,530, 9-12-72, Cl. 226-97.000.

Porter, William D.; and Taylor, Larry H., to Northrop Carolina, Inc. Textile thread winder with improved thread traversing mechanism. 3,690,579, 9-12-72, Cl. 242-43.000.

Porter, William I.: *See—*
Porter, William I.; Hindsley, Frank W.; and Hesse, James E. (said Hindsley and said Hesse assor. to said), 3,688,406.

Porter, William I.; Hindsley, Frank W.; and Hesse, James E., said Hindsley and said Hesse assor. to said 1/2% to Porter, William I. Apparatus for and method of applying decay retardant compositions to teeth. 3,688,406, 9-5-72, Cl. 32-40.00r.

Porter, Wilson B.; and Klein, Harold T., said Porter assor. to Robbins, James S., and Associates, Inc. and said Klein assor. to Robbins Company, The. Earth drilling machine. 3,695,364, 10-3-72, Cl. 173-57.000.

Porterfield, Charles D.: *See—*
Brown, Buck C.; and Porterfield, Charles D., 3,693,100.

Porterfield, Jay G.: *See—*
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Portescap, Le. Porte-Echappement Universal S.A.: *See—*
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Portex, Inc.: *See—*
Steltz, Douglas C., 3,656,812.

Porth, Dieter; and Rinnergschwentner, Hans, to Daimler-Benz Aktiengesellschaft. Pivoted cab with lost-motion tilting mechanism. 3,642,316, 2-15-72, Cl. 296-28.

Portinari, Antonio: *See—*
Longoni, Sergio; and Portinari, Antonio, 3,643,727.

Portion-Trol Liquor Systems, Inc.: *See—*
Johnson, Robert J.; and Zipper, Walter J., 3,655,952.

Portland Cement Association: *See—*
Reeve, Leo C., 3,667,878.

Portland Iron Works: *See—*
Pearson, Harry C., 3,703,915.

Portnoy, Allen J.; and Mundy, William L., to Permaneer Corporation. Registered printing and embossing of laminated boards. 3,681,159, 8-1-72, Cl. 156-209.000.

Portnoy, Seymour: *See—*
Gisser, Henry; and Portnoy, Seymour, 3,642,631.

Portugall, Peter, to International Standard Electric Corporation. Key switch for chatterless switching. 3,699,293, 10-17-72, Cl. 200-166.00h.

Portus, Bruce W., to Fiber Industries, Inc. Operation of polyamide continuous polymerization system. 3,679,635, 7-25-72, Cl. 260-78.00r.

Portwood, Owen, Jr.; Starks, Charles M.; and Washecheck, Paul H., to Continental Oil Company. Process for preparing dimethylacetal. 3,641,163, 2-8-72, Cl. 260-615.

Portyanko, Andrei Ivanovich; Lastovenko, Valentin Andreevich; Dudka, Viktor Vasilievich; Rodenko, Fedor Leontievich; Onischenko, Grigory Ivanovich; Vatkin, Adolf Semenovich; Pokusa, Alexei Alexandrovich; and Ruzin, Ivan Mikhailovich. Root harvester. 3,654,97, 4-11-72, Cl. 171-58.

Portz, Wilhelm: *See—*
Kirchem, Heinz; and Portz, Wilhelm, 3,702,894.

Portz, William E.; and Stump, Harry B., to True Temper Corporation. Tool handle construction. 3,697,110, 10-10-72, Cl. 294-57.000.

Portz, William H. Water cooler. 3,641,785, 2-15-72, Cl. 62-396.

Porvair Limited: *See—*
Harthorn, George Stuart, 3,641,978.
Hull, Graham Rodney, 3,689,629.

Posa, John P.: *See—*
Frederick, Martin B.; and Posa, John P., 3,638,800.

Poscaud, Xavier: *See—*
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Poschmann, Franz: *See—*
Janson, Alfons; Poschmann, Franz; and Wittmann, Georg, 3,653,804.

Posey, John T. Restraining device for wheelchair patients. 3,635,526, 1-18-72, Cl. 297-390.

Posey, John T. Lap cover and restrainer. 3,669,107, 6-13-72, Cl. 128-134.000.

Posey, John T., Jr. Restraining device. 3,641,997, 2-15-72, Cl. 128-134.

Posh, Raymond C.: *See—*
Homier, Robert I.; and Posh, Raymond C., 3,692,271.

Poshkus, Algirdas C.: *See—*
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Poskin, Irvin C. Staple lifter with gripping jaws. 3,698,689, 10-17-72, Cl. 254-28.000.

Posl, Rudolf: *See—*
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Posner, Edward C.: *See—*

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Andrews, Russell W.; Kolesar, Paul M.; Payne, Robert M.; and Posner, Howard G., 3,651,511.
Posner, Richard, to Creative Polymer Products Corporation. Mold for molding articles composed of different materials. 3,642,246, 2-15-72, Cl. 249-105.
Posner, Seymour J., 25% Friedman and Goodman. Supersensitive energizing circuit. 3,697,787, 10-10-72, Cl. 209-308.000.
Pospelov, Mikhail Valerievich: *See—*
Menyailo, Anatoly Tikhonovich; Pospelov, Mikhail Valerievich; Kaliko, Olga Romanovna; Pokrovskaya, Inna Evgenievna; Fedorova, Valentine Vsevolodovna; Shilnikova, Albina Georgievna; Yakovleva, Antonina Karpovna; and Narozhenko, Tamara Georgievna, 3,664,810.
Pospisil, Frantisek: *See—*
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Pospisil, Jaroslav; and Plsek, Josef, to Prerovske strojirny, narodni podnik. Method for adjustment of the heat generating process in a rotary kiln with a heat exchanger etc. 3,659,829, 5-2-72, Cl. 263-32.
Pospisil, Karel: *See—*
Tomanec, Ladislav; and Pospisil, Karel, 3,683,698.
Poss, Emilio, to TIMI S.p.A. Device for positioning workpieces in a pre-established sequence of machining positions. 3,704,956, 12-5-72, Cl. 408-91.000.
Poss, Richard F.: *See—*
Gower, Bob G.; and Poss, Richard F., 3,647,732.
Poss, Stanley M. Zinc sulfide phosphors. 3,657,142, 4-18-72, Cl. 252-301.6.
Possberg, Jobst; Rostock, Kai; Nickl, Eligius; Otmar, Zajicek; and Helmut, Klapp. Process for the preparation of polyvinyl chloride polymerizates suitable for vinyl pastes. 3,696,079, 10-3-72, Cl. 260-78.5cl.
Posse, Rolf-Fred: *See—*
Moll, Franz; Posse, Rolf-Fred; and Ringe, Werner, 3,674,703.
Sauer, Theo; Posse, Rolf-Fred; and Schulz, Gunter, 3,692,283.
Possell, Clarence R. Differential fluid pressure actuated electrical switch. 3,636,289, 1-18-72, Cl. 200-83.
Posselt, Hans S., to Carus Corporation. Stabilization of alkali metal permanganate in alkaline solution. 3,652,417, 3-28-72, Cl. 252-80.
Posselt, Klaus: *See—*
Thiele, Kurt; and Posselt, Klaus, 3,687,945.
Posselt, Klaus; and Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Benzothiophene aminoketones and aminoalcohols. 3,658,845, 4-25-72, Cl. 260-330.5.
Posselt, Klaus; and Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Pyrazole and pyrazolone aminoketones. 3,686,206, 8-22-72, Cl. 260-310.00r.
Posser, Eugene H.: *See—*
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Possick, Saul. Abdominal muscle exercise device. 3,672,356, 6-27-72, Cl. 128-57.000.
Possis Machine Corporation: *See—*
Dammar, Raymon H., 3,636,621.
Schuette, Thomas L., 3,676,979.
Posso, Pierre A. Device for packaging reels of magnetic tape or the like and for stowing them by suspension. 3,667,595, 6-6-72, Cl. 206-53.000.
Posso, Pierre A. Boxes for packaging a reel. 3,700,098, 10-24-72, Cl. 206-52.00f.
Posson, Philip Lynn; Moore, Donald Baker; and Nicholson, Dallas Earl, to Explosive Technology, Inc. Aerodynamic directional grenade, launcher therefor and weapons system utilizing the same. 3,646,888, 3-7-72, Cl. 102-67.
Post, Arthur H., Jr.; Polinsky, Ronald J.; and Dwyer, James L., to Millipore Corporation. Electrophoretic apparatus. 3,674,678, 7-4-72, Cl. 204-299.000.
Post, Bradford: *See—*
Voorhis, Harold W.; and Post, Bradford, 3,672,560.
Post, Carl A.; and Cabanaw, Eldred J., to Phillips Petroleum Company. Condensate purification and recovery for use as dilution steam to pyrolysis furnace. 3,666,828, 5-30-72, Cl. 260-683.
Post, Gerald George, to Abbott Laboratories. Purification of erythromycin thiocyanate. 3,637,654, 1-25-72, Cl. 260-210.
Post, Harold N.: *See—*
Cole, James K.; Coonce, Carroll A.; and Post, Harold N., 3,670,648.
Post, Hendrik Alle: *See—*
Sie, Tjwan Khing; and Post, Hendrik Alle, 3,695,478.
Post, Herman; Prigozy, Stephen; and Millie, Orrin, to Robins Industries Corporation. Device for punching cards or the like. 3,680,774, 8-1-72, Cl. 234-100.000.
Post, Leo B.: *See—*
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Dyer, James N.; Post, Leo B.; and Rosen, Herbert J., 3,684,724.
Post, Norman W. Combination container for dispenser. 3,657,994, 4-25-72, Cl. 99-323.
Post Office, The: *See—*
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Enoch, Reginald David, 3,662,357.
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Post, Paul B., to United Aircraft Corporation. Information association through logical functions derived from language. 3,644,898, 2-22-72, Cl. 346-172.5.
Post, Richard F., to United States of America, Atomic Energy Commission. Ion source with mosaic ion extraction means. 3,660,715, 5-2-72, Cl. 315-11.000.
Post, Richard F., to United States of America, Atomic Energy Commission. Conversion of high temperature plasma energy into electrical energy. 3,663,360, 5-16-72, Cl. 176-3.000.
Post, Richard F., 12 1/2% to Williams, Darrell E. and 12 1/2% to Fowler, T. Kenneth. Inertial energy storage apparatus and system for utilizing the same. 3,683,216, 8-8-72, Cl. 310-67.000.
Post, Robert C.: *See—*
Stroup, Ralph F.; Clingman, William H., Jr.; and Post, Robert C., 3,684,585.
Post, Robert E.: *See—*
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Posta, Joseph M.: *See—*
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Postel, Edward. Mounting head for article of jewelry containing interchangeable ornaments. 3,643,467, 2-22-72, Cl. 63-29.
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Gallistel, Albert F.; and Posthumus, Warren R., 3,635,387.
Postigo, Pascual Agustin. Hygenic, variable-confinement-area pigpen. 3,631,839, 1-4-72, Cl. 119-20.
Postlethwaite, Harvey Ernest, to Imperial Chemical Industries Limited. Carburettor containing porous material e.g. foamed plastic. 3,695,593, 10-3-72, Cl. 261-96.000.
Postma, Gosse Jan: *See—*
Otten, Walter; Postma, Gosse Jan; Rietveld, Jan Joost; and Wolber, Jorg, 3,648,099.
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Potapenko, Viktor Viktorovich: *See—*
Dunaevsky, July Nekhemievich; Tartakovsky, Boris Nusimovich; Zhukov, Nikolai Arsentievich; and Potapenko, Viktor Viktorovich, 3,689,090.
Potapov, Oleg Fedorovich: *See—*
Petrov, Vitaly Ivanovich; Ivanov, Alexandr Nikolaevich; Olenin, Jury Leonidovich; Eller, Arnold Oskarovich; Butuzov, Anatoly Akimovich; Basin, Abram Moiseevich; Starobinsky, Vladimir Borisovich; Ratner, Efim Rafailovich; and Potapov, Oleg Fedorovich, 3,659542.
Potash, Hanan, to Sperry Rand Corporation, mesne. Peak detection system. 3,668,532, 6-6-72, Cl. 328-151.000.
Potash, Norman, to United States of America, Army. Drinking and resuscitation mask. 3,635,217, 1-18-72, Cl. 128-145.5.
Potchen, Peter F., to Clark-Reliance Corporation, The. Humidifier control. 3,642,201, 2-15-72, Cl. 236-44.
Potin, Marcel, to Societe Financiere Francaise de Licences et Brevets. Method and device for making and finishing zip fasteners. 3,639,969, 2-8-72, Cl. 29-408.
Potlatch Forests, Inc.: *See—*
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Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. Schiff bases of quinoxaline-2-carboxyaldehydes and their reduction products. 3,632,581, 1-4-72, Cl. 260-247.5.

Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. Amino-substituted-quinoxalinyloxazolidines and oxazines. 3,635,982, 1-18-72, Cl. 260-268.

Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. Quinoxalinyl-oxazolidines and -oxazines. 3,647,790, 3-7-72, Cl. 260-244.

Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. Substituted 2-t-butyl-octahydro-2H-quinolizines. 3,692,791, 9-19-72, Cl. 260-293.530.

Potrafke, Werner. Device for self-service stores. 3,651,890, 3-28-72, Cl. 186-1.

Potrafke, Werner. Device for self-service stores. 3,672,469, 6-27-72, Cl. 186-1.00a.

Potrafke, Werner. Device for self-service stores. 3,688,873, 9-5-72, Cl. 186-1.00a.

Potrafke, Werner. Device for self-service stores. 3,690,411, 9-12-72, Cl. 186-1.00a.

Pott, Richard, to Westland Gummiwerke GmbH & Co. Conveyor belt. 3,633,428, 1-11-72, Cl. 74-231.

Potteiger, Lester A., to United States of America, Navy. Telescoping ordnance device. 3,677,179, 7-18-72, Cl. 102-56.000.

Pottenger, Charles R., to Potlatch Forests, Inc. Method and apparatus for determining lignin content. 3,674,434, 7-4-72, Cl. 23-230.00r.

Potter, Allan G., to Iowa State University Research Foundation. Myoelectric brace. 3,631,542, 1-4-72, Cl. 3-1.1.

Potter, Andrew E., Jr., to United States of America, National Aeronautics and Space Administration. Multispectral imaging system. 3,702,735, 11-14-72, Cl. 356-106.00s.

Potter, Basil E.; Bosworth, Theodore K.; Chisholm, John P.; and Cadzow, James A., to Sierra Research Corporation. Computer determining the location of objects in a coordinate system. 3,659,085, 4-25-72, Cl. 235-150.200.

Potter, Basil E., to Sierra Research Corporation. Radar detector and identifier. 3,660,844, 5-2-72, Cl. 343-18.

Potter, Bronson M. Oscillator for means driving a resonant load. 3,638,223, 1-25-72, Cl. 340-384.

Potter, Bronson M., to Mallory, P. R., & Co., Inc. Alerting devices, oscillators and flip flops. 3,697,983, 10-10-72, Cl. 340-384.00e.

Potter, Charles, to AMVIT. Static mixer. 3,635,444, 1-18-72, Cl. 259-4.

Potter, Charles, to Amvit. Pipe stopper for bell and spigot type of tile. 3,675,685, 7-11-72, Cl. 138-89.000.

Potter, Charles William, to Weston, Charles, and Company Limited. Method of making oil seals. 3,685,127, 8-22-72, Cl. 29-400.000.

Potter, Earl B., to Rohr Corporation. Thrust controlling system. 3,690,561, 9-12-72, Cl. 239-265.290.

Potter, Gene Barrack; and Reeder, Ronald Holt, to Xerox Data Systems, Inc. Digital circuit logic. 3,688,127, 8-29-72, Cl. 307-207.000.

Potter Instrument Company, Inc.: *See—*
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Pear, Charles B., Jr., 3,665,485.
Pear, Charles B., Jr.; and Ross, Joseph A., 3,678,847.
Potter, John T., 3,656,426.
Ross, Joseph A.; and Hemdal, Hakan O., 3,656,154.
Rush, Charles D.; and Hube, Arthur B., 3,680,734.

Potter, Jack D.; and Reams, Bernard W., to Warren Petroleum Corporation. Rising stem valve remote position indicator. 3,671,692, 6-20-72, Cl. 200-61.860.

Potter, Jimmie Clinton: *See—*
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Potter, John T., to Potter Instrument Company, Inc. Apparatus for printing alphanumeric and binary code markings and comparison means therefor. 3,656,426, 4-18-72, Cl. 101-93.

Potter, Olin E.; and Tomasi, Biagio J., to Worthington Compressor and Engine International; division of Worthington Corporation. Liquid cooler assembly. 3,690,371, 9-12-72, Cl. 165-35.000.

Potter, Roderick B., to Kelley Company, Inc. Hold-down mechanism for the ramp of a dockboard. 3,646,627, 3-7-72, Cl. 14-71.

Potter, Roderick B., to Kelley Company, Inc. Light fixture for a loading dock. 3,696,240, 10-3-72, Cl. 240-73.0bj.

Potter, Ronald D., to Erie Engineering Company. Reach-extension attachment for work transfer device. 3,648,854, 3-14-72, Cl. 214-1.

Potter, Ronald D., to Erie Engineering Company. Midposition stop fixture for work transfer device. 3,648,855, 3-14-72, Cl. 214-1.

Potterat, Raymond-Gerard. Instrument for presenting an object to be viewed. 3,667,634, 6-6-72, Cl. 214-340.000.

Potters, Cornelis Johannes Theresia: *See—*
Holster, Peter Leendert; Smulders, Hendricus Franciscus Gerardus; and Potters, Cornelis Johannes Theresia, 3,631,556.

Potters, Cornelis Johannes Theresia; Reinhoudt, Jacobus Pieter; and Smulders, Hendricus Franciscus Gerardus, to U.S. Philips Corporation. Automatic toothbrush with a fluid motor. 3,643,273, 2-22-72, Cl. 15-22.

Pottharst, John E., Jr. Compressor. 3,652,183, 3-28-72, Cl. 415-170.

Pottharst, John E., Jr. Liquid level control assembly. 3,686,451, 8-22-72, Cl. 200-84.00r.

Potthoff, Ingo, to Schade, Gustav, Maschinenfabrik. Scraper to recover bulk material from storage. 3,658,169, 4-25-72, Cl. 198-36.

Pottiez, Fernand; and Verbeest, Raphael, to UCB, Societe Anonyme. Process for the regeneration of alkanolamines by distillation, alkali hydroxide treatment, heat, phase separation and distillation. 3,664,930, 5-23-72, Cl. 203-37.

Pottinger, Eugene A.: *See—*
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Pottinger, Eugene A.; and Shelton, Winston L., to Commercial Appliances, Inc. Means for melting congealed liquid and for preventing congelation. 3,667,375, 6-6-72, Cl. 99-408.

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Potts, John D.: *See—*
Kirsch, Francis W.; Potts, John D.; and Barmby, David S., 3,655,813.
Kirsch, Francis William; Barmby, David S.; and Potts, John D., 3,706,814.

Potts, John T.; Lange, Lawrence H.; and Liss, Thomas P., to Galigher Company, The. Flotation machine and system utilizing impeller-type aeration units. 3,647,066, 3-7-72, Cl. 209-169.

Potts, Robert L.; and Post, Wiley G. Trailer cushioning and stabilizing device. 3,697,099, 10-10-72, Cl. 280-446.00b.

Potts, Vinson S.: *See—*
Kneusel, Raymond H. P.; and Potts, Vinson S., 3,693,828.
Luviano, John Joseph; and Potts, Vinson S., 3,659,739.

Potts, Vinson S.; and Duham, Frederick W., to Crown Cork & Seal Company, Inc. Container forming apparatus. 3,683,834, 8-15-72, Cl. 113-1.00f.

Potts, Vinson S., to Crown Cork & Seal Company, Inc. Necked-in container. 3,698,596, 10-17-72, Cl. 220-670.000.

Potts, William F., to Liberty Combustion Corporation. Fluid fuel igniter control system. 3,681,001, 8-1-72, Cl. 431-264.000.

Potvin, Alfred M. Sanitary disposal device. 3,664,576, 5-23-72, Cl. 232-43.2.

Potvin, Raoul J., to Conair, Incorporated. Material transporting device. 3,635,377, 1-18-72, Cl. 222-145.

Potzick, Anthony J., to Mosler Safe Company, The. Dial structure for mechanism requiring both lineal and rotary input operating movements. 3,699,789, 10-24-72, Cl. 70-329.000.

Poucher, Michael; and Williams, Michael Roy, to Rolls-Royce Limited. Variable gas turbine engine air intake. 3,659,418, 5-2-72, Cl. 60-39.290.

Poucher, Michael; Brooks, Leslie John; and Morris, Geoffrey William, to Rolls-Royce Limited. Gas turbine engine. 3,662,556, 5-16-72, Cl. 60-226.00r.

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Praddaude, Pierre A., to Societe Anonyme Poclain. Hydraulic power transmissions. 3,664,127, 5-23-72, Cl. 60-53.

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Prader, James Edward; and King, Harless W., II, to Ampex Corporation. Apparatus for splicing ends of magnetic tape of a cartridge with a metallic splice. 3,694,293, 9-26-72, Cl. 156-506.000.

Pradt, Louis A.; Gitchel, Wayne B.; and Hoffman, Clarence A., to Sterling Drug Inc. Oxidation and reuse of pulping effluent from oxygen pulping of raw cellulose. 3,654,070, 4-4-72, Cl. 162-30.

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Prahl, Helmut F.; and Hart, Frederick M., to Dynatron Research Corporation. Polyolefin-starch. 3,704,271, 11-28-72, Cl. 260-17.4gc.

Prahl, Jan, to Teufel, Wilhelm Julius. Angular adjustment connector for prosthetic limb parts. 3,649,968, 3-21-72, Cl. 3-21.

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Prahl, Walter H.; and Lederman, Sol J., to Hooker Chemical Corporation. Crystallization of diphenylol alkanes. 3,673,262, 6-27-72, Cl. 260-619.00a.

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Pratt, John McDonald; and Whitear, Brian Ronald David, to Imperial Chemical Industries, Limited and Ilford Limited. Photosensitive element containing photolabile cobalt or iron complex and the use thereof in color development. 3,701,660, 10-31-72, Cl. 96-4.00r.
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Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Matzuzi, Guglielmo, to Montacatini Edison S.p.A. Catalyst for the oxidation of olefins to unsaturated aldehydes and unsaturated acids. 3,660,480, 5-2-72, Cl. 260-533.
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Preinfalk, Franz; and Meuters, Gunther, to August Thyssen-Hutte Aktiengesellschaft. Deformable track brake. 3,703,943, 11-28-72, Cl. 188-62.000.
Preinfalk, Franz H., to August Thyssen-Hutte Aktiengesellschaft. Rubber track brake. 3,659,679, 5-2-72, Cl. 188-62.
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Preiser, Mark E., to General Motors Corporation. Shut-off arrangement for the power controlled rectifiers of a DC to AC inverter. 3,681,675, 8-1-72, Cl. 321-5.000.
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Prendergast, Charles Scott, to Cam Rotors Limited. Radial piston fluid pressure motor. 3,699,848, 10-24-72, Cl. 91-487.000.
Prendergast, Richard E.; and Rogers, Lawrence M., to Continental Can Company, Inc. Feed mechanism. 3,635,360, 1-18-72, Cl. 214-8.5.

Prener, Jerome S.: *See—*
Kingsley, Jack D.; and Prener, Jerome S., 3,664,862.
Prengaman, Raymond David: *See—*
Newbury, Dale E.; and Prengaman, Raymond David, 3,706,605.
Prenihan A.G., mesne: *See—*
Johnson, Martin Robert, 3,673,821.
Prentice Corporation: *See—*
Elsenheimer, Charles W., 3,703,822.
Prentice, James B., to Procter & Gamble Company, The. Process for preparation of ethane-1-hydroxyl-1,1,2-triphosphonates from ethanecarbonyl-1,2-diphosphonates. 3,641,126, 2-8-72, Cl. 260-502.4.
Prentice, James B., to Procter & Gamble Company, The. Ethanecarbonyl-1,2-diphosphonic acid, water-soluble salts thereof and process for preparation. 3,670,015, 6-13-72, Cl. 260-52.40p.
Prentice, James S., to Esso Research and Engineering Company. Increasing strip tensile strength of melt blown nonwoven polypropylene mats of high tear resistance. 3,650,866, 3-21-72, Cl. 156-181.
Prentice, James S., to Esso Research and Engineering Company. Method of making a non-woven polymer laminate. 3,676,242, 7-11-72, Cl. 156-62.400.
Prentice, James S., to Esso Research and Engineering Company. Nonwoven polypropylene mats of increased strip tensile strength. 3,704,198, 11-28-72, Cl. 161-148.000.
Prentice, Russell E.: *See—*
Akin, Alfred A., Jr.; and Prentice, Russell E., 3,642,345.
Prentky, Peter I.: *See—*
Kurzweil, Fred, Jr.; Prentky, Peter I.; and Hasty, Charles E., 3,632,900.
Prentky, Peter I.; and Wilson, Alonzo A., to International Business Machines Corporation. Noise discriminator for digital data detection system. 3,665,327, 5-23-72, Cl. 328-163.000.
Preotle, John J., to General Motors Corporation. Air conditioner with rotatable snorkel. 3,665,726, 5-30-72, Cl. 62-262.
Prerovske strojirny, narodni podnik: *See—*
Kristek, Ladislav; Svizela, Antonin; and Hampl, Ivo, 3,633,744.
Pospisil, Jaroslav; and Plsek, Josef, 3,659,829.
Presby, Edwin E.: *See—*
Price, Kenneth E.; and Presby, Edwin E., 3,657,837.
Prescon Corporation, The, mesne: *See—*
Bickley, William Clyde, 3,665,747.
Prescott, Burnerd Clark. Disc and sidebar cylinder lock. 3,695,073, 10-3-72, Cl. 70-366.000.
Prescott, Ernest F.; and Palmiter, Donald R., to Elgin Sweeper Company. Street sweeper construction and lift mechanism. 3,634,900, 1-18-72, Cl. 15-84.
Prescott, Herbert L., to Westinghouse Electric Corporation. Motor operated tap changer employing contact drum switches. 3,663,951, 5-16-72, Cl. 323-43.5.
Prescott, Herbert L., to Westinghouse Electric Corporation. Phase-angle regulator. 3,690,739, 9-12-72, Cl. 323-43.50r.
Prescott, Paul I.: *See—*
Morris, Horton H.; Olivier, James P.; and Prescott, Paul I., 3,697,474.
Morris, Horton H.; and Prescott, Paul I., 3,697,475.
Prescott, Robert C.: *See—*
Beardsley, Earl A.; Bowditch, Hoel L.; and Prescott, Robert C., 3,680,580.
Prescott, Robert E.: *See—*
Nash, Donald H.; Nenninger, Theodore P.; and Prescott, Robert E., 3,676,607.
Prescott, Robert S., to Honeywell Inc. Two channel read amplifier. 3,673,507, 6-27-72, Cl. 330-30.00r.
Prescott, Roger, to Great Lakes Carbon Corporation. Composites and intermediates therefor. 3,671,285, 6-20-72, Cl. 117-75.000.
Preslar, Donald Ray: *See—*
Stewart, Neil Rutherford; and Preslar, Donald Ray, 3,643,156.
Presley, C. T.: *See—*
Argabright, Perry A.; Hummel, Jack L.; and Presley, C. T., 3,705,627.
Presley, C. Travis: *See—*
Argabright, Perry A.; and Presley, C. Travis, 3,682,245.
Argabright, Perry A.; Presley, C. Travis; and Bixel, Harold C., 3,695,356.
Presley, C. Travis; and Argabright, Perry A., to Marathon Oil Company. Mobility control by partial plugging of formations. 3,684,011, 8-15-72, Cl. 166-270.000.
Presley, Wayne E.: *See—*
Hairston, Thomas J.; Presley, Wayne E.; and Edwards, Stephen P., 3,649,572.
Presman, Vladimir Alexandrovich: *See—*
Rubinshtein, Sholom Yakovlevich; Babin, Mikhail Artemievich; Gutman, Anatoly Lvovich; Naumenko, Viktor Dmitrievich; Orlov, Evgeny Mikhailovich; Presman, Vladimir Alexandrovich; Maev, Veniamin Evnovich; and Bondarenko, Fedor Alexeevich, 3,678,664.
Presnick, Michael C.; Penn, Everett; and Piorek, John, to Olympian Scoreboard Division, Metatronics Manufacturing Corporation. Battery operated scoreboard. 3,683,357, 8-8-72, Cl. 340-323.000.
Presnyakov, Alexandr Alexandrovich: *See—*
Novikov, Alexei Viktorovich; Fridman, Lev Petrovich; Zinkovsky, Viktor Antonovich; Denisov, Vladimir Ivanovich; Fisenko, Konstantin Vitalievich; Rattenberg, Vadim Nikolaevich; and Presnyakov, Alexandr Alexandrovich, 3,683,998.
Presnyakov, Gennady Stepanovich: *See—*
Galutva, Gennady Vasilievich; Ryazantsev, Alek Iosifovich; Presnyakov, Gennady Stepanovich; and Modestov, Jury Konstantinovich, 3,684,904.
Press, Irving D.; and Heigis, Henry E., to Resistoflex Corporation. High pressure chemically resistant bellows. 3,633,945, 1-11-72, Cl. 285-226.
Press, Irving D., to Resistoflex Corporation. Expanding tool. 3,641,798, 2-15-72, Cl. 72-122.
Press, Irving D., to Resistoflex Corporation. Double action fluid valve. 3,683,954, 8-15-72, Cl. 137-269.000.
Press, Meyer; Teixeira, James F.; and Wolff, Gerald, to GTE Sylvania Incorporated. Transistorized load control circuit. 3,633,051, 1-4-72, Cl. 307-296.
Press, Meyer, to GTE Sylvania Incorporated. Transistorized load control circuit comprising high and low parallel voltage sources. 3,636,381, 1-18-72, Cl. 307-296.
Press Systems, Inc., mesne: *See—*
Wrona, Theodore J., 3,662,640.
Press- und Stanzwerk Paul Craemer KG: *See—*
Ditges, Ernst, 3,700,205.
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Gillery, Frank H.; and Pressau, Jean P., 3,655,545.
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Shayler, Victor James; and Wells, Gordon Arthur Leslie, 3,657,401.
Presser, Adolph, to RCA Corporation. Variable tuning arrangement for a strip transmission line circuit. 3,693,118, 9-19-72, Cl. 337-107.00g.
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Goodbar, Reid C.; and Pressley, Arther Mitchell, 3,703,073.
Pressman, Gerald L.; and Kittredge, Thomas D., to Electroprint, Inc., mesne. Apparatus for aperture controlled electrostatic image reproduction or constitution. 3,647,291, 3-7-72, Cl. 355-3.
Pressman, Gerald L.; and Casanova, John V., to Electro Print Inc. Electrostatic line printer. 3,689,935, 9-5-72, Cl. 346-74.0es.
Pressman, Gerald L., to Electroprint, Inc. Electrostatic modulator for controlling flow of charged particles. 3,694,200, 9-26-72, Cl. 96-1.00r.
Pressman, Gerald L.; and Kittredge, Thomas D., to Electroprint, Inc., mesne. Apparatus for aperture controlled electrostatic image color reproduction or constitution. 3,697,164, 10-10-72, Cl. 355-4.000.
Pressman, Jerome. Dynamic Mobius band. 3,648,407, 3-14-72, Cl. 46-243.
Pressman, Jerome. Educational toy balloon systems. 3,693,266, 9-26-72, Cl. 35-19.00r.
Pressman, Sidney, to Current Industries, Incorporated. Mercury vapor lamp with auxiliary light source. 3,694,692, 9-26-72, Cl. 315-154.000.
Presson, Robert D.: *See—*
Callahan, James L.; Presson, Robert D.; and Miller, Arthur F., 3,658,877.
Veatch, Franklin; Milberger, Ernest C.; and Presson, Robert D., 3,657,015.
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King, Robert Bruce; and Kapoor, Pramesh N., 3,657,298.
Pressweld Limited: *See—*
Crompton, Geoffrey, 3,663,065.
Prest, Robert J., to Technical Operations, Incorporated. Cable drive assembly. 3,690,529, 9-12-72, Cl. 226-76.000.
Presti, Charles Lo, to Carborundum Company, The. Belt grinding machines and platen therefor. 3,686,798, 8-29-72, Cl. 51-138.000.
Prestininzi, Pete: *See—*
Macey, James G., 3,647,367.
Preston, Birgit: *See—*
Tracy, Richard A., 3,687,216.
Preston, Edward G., to Molins Limited. Continuous rod making machines. 3,667,587, 6-6-72, Cl. 198-25.000.
Preston, Edward George: *See—*
Powell, Gordon Francis Wellington; and Preston, Edward George, 3,699,974.
Preston Engravers, Inc.: *See—*
Kesten, Martin; and O'Connor, Ralph Bruce, 3,698,271.
Kesten, Martin; and O'Connor, Ralph Bruce, 3,698,272.
Preston, George A.: *See—*
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Preston, Harold M.: *See—*
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Preston, Jack: *See—*
Tommaney, Joseph W.; and Preston, Jack, 3,687,187.
Preston, Jack, to Monsanto Company. Aromatic polyamide-hydrazides. 3,632,548, 1-4-72, Cl. 260-32.6.

Preston, Jerome A., to Essex International, Inc. Resinous composition for coating electric conductors. 3,632,440, 1-4-72, Cl. 117-218.
Preston, Jerome A., to Owens-Corning Fiberglas Corporation. Method of dispersing reaction of organosilane and polyolefin. 3,644,141, 2-22-72, Cl. 117-126.
Preston, Jerome A.; and Davis, Carlton J., Sr., to Owens-Corning Fiberglas Corporation. Reaction product of hydrolyzed siloxane and an imine polymer and glass strands coated therewith. 3,664,982, 5-23-72, Cl. 260-29.4.
Preston, Jerome A., to Essex International, Inc. Siliated polyhydantoin, polyester hydantoin siloxanes and polyhydantoin amide siloxanes for use as wire coatings. 3,681,282, 8-1-72, Cl. 260-46.50e.
Preston, Jerome A., to Essex International, Inc. Wire conductor having a resin coating modified with amine-silicone reaction product. 3,686,030, 8-22-72, Cl. 117-232.000.
Preston, Jerome A.; and Davis, Carlton J., Sr., to Owens-Corning Fiberglas Corporation. Material for bonding resins to glass fibers and composites made therefrom. 3,705,125, 12-5-72, Cl. 260-37.00n.
Preston, John: *See—*
Eanzel, Albert R.; and Preston, John, 3,657,173.
Preston, John M. Tin immersion plating bath and method. 3,689,292, 9-5-72, Cl. 106-1.000.
Preston, John P.: *See—*
Alpert, Marshall B.; and Preston, John P., 3,632,527.
Preston, Kendall, Jr., to Perkin-Elmer Corporation, The. Method and apparatus for optical speech correlation. 3,636,261, 1-18-72, Cl. 179-1.
Preston, Kendall, Jr., to Perkin-Elmer Corporation, The. Optical correlator. 3,641,355, 2-8-72, Cl. 250-229.
Preston, Leslie Raymond; Pope, Victor James; Stagg, John; and Green, Ronald Sydney, to Grace, W. R., & Co. Packing apparatus. 3,681,177, 8-1-72, Cl. 156-583.000.
Preston, Mark, to Litton Business Systems, Inc. Self cleaning dielectric heater. 3,652,816, 3-28-72, Cl. 219-10.61.
Preston, Norman H., to Burroughs Corporation. Pack holder-refold stand. 3,692,189, 9-19-72, Cl. 211-134.000.
Prete, Ernest, Jr., to Ancra Corporation. Anchor fitting for retaining articles in a retainer track. 3,677,195, 7-18-72, Cl. 105-369.00a.
Prete, Ernest, Jr., to Ancra Corporation. Cam buckle. 3,678,542, 7-25-72, Cl. 24-191.000.
Prete, John A.; and Raudat, John L., to Emhart Corporation. Apparatus for simultaneously loading groups of articles into packing cases. 3,673,756, 7-4-72, Cl. 53-61.000.
Pretorius, Victor; and Hahn, Hans Helmut. Detection in chromatography. 3,649,498, 3-14-72, Cl. 204-180.
Pretorius, Victor; and Hahn, Hans Helmut. Chromatographic separation. 3,694,335, 9-26-72, Cl. 204-180.00g.
Pretorius, Victor; and Hahn, Hans Helmut. Relating to three-dimensional chromatographic systems. 3,703,798, 11-28-72, Cl. 55-67.
Preu, Hans L., to American Hoist & Derrick Company. Articulated linkage connection for an excavating machine. 3,704,534, 12-5-72, Cl. 37-83.000.
Preud'Homme, Jean: *See—*
Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,657,420.
Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,658,987.
Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,682,886.
Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,686,396.
Preus, Paul; and Gallagher, John J. Convertible barrier for substances floating on water. 3,667,235, 6-6-72, Cl. 61-1.
Preusch, William J.: *See—*
Reiner, Joel Russell; Preusch, William J.; and Davenport, William G., 3,640,233.
Reiner, Joel Russell; Preusch, William J.; and Davenport, William G., 3,707,130.
Preuss, Friedrich, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Clamping device for clamping a printing plate upon a cylinder of a printing press. 3,658,002, 4-25-72, Cl. 101-415.1.
Preuss, Friedrich; and Alix, Hans, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Dampening device for a printing press. 3,688,694, 9-5-72, Cl. 101-148.000.
Preuss, Hans W.: *See—*
Festner, Theodor; Litwin, Theodore J.; and Preuss, Hans W., 3,702,796.
Preuss, Heinz. Device for reducing the supersonic boom caused by aircraft. 3,655,147, 4-11-72, Cl. 244-1.
Preusser, Gerhard; Schulze, Martin; and Richter, Klaus, to Koppers, Heinrich, Gesellschaft mit beschrankter Haftung. Process for separating saturated hydrocarbons and olefins. 3,673,081, 6-27-72, Cl. 208-313.000.
Preusser, Gerhard; Schulze, Martin; and Richter, Klaus, to Heinrich Koppers Gesellschaft mit beschrankter Haftung. Process for recovering highly pure aromatic substances from hydrocarbon mixtures containing both aromatic and non-aromatic substances. 3,679,79, 7-25-72, Cl. 208-323.000.
Preux, Roger G. Switching device with moving parts in the form of a cross. 3,652,962, 3-28-72, Cl. 335-203.
Prevorsek, Dusan C.: *See—*
Lamb, George E. R.; Prevorsek, Dusan C.; and Oswald, Hendrikus J., 3,634,163.
Lamb, George E. R.; Prevorsek, Dusan C.; Kotliar, Abraham M.; and Oswald, Hendrikus J., 3,705,074.
Prevorsek, Dusan C.; Li, Hsin L.; Koch, Paul J.; Oswald, Hendrikus J.; and Schmitt, George J., to Allied Chemical Corporation. Thermosetting laminates. 3,690,980, 9-12-72, Cl. 156-199.000.
Prevorsek, Dusan Ciril: *See—*
Li, Hsin Lang; Lamb, George Edwin Robert; and Prevorsek, Dusan Ciril, 3,686,722.
Prevorsek, Metka: *See—*
Evans, George L.; Kronish, Donald P.; Prevorsek, Metka; Schwartz, Benjamin S.; and Zuriff, Lee S., 3,649,461.
Prevot, Rene, to Eastman Kodak Company. Process for applying a magnetic track directly on an anti-halation backing of a cinematographic film. 3,647,541, 3-7-72, Cl. 117-239.
Prevot Stephane: *See—*
Westcott, Vernon C.; Blanchard, Byron E.; Davis, Paul A.; and Prevot Stephane, 3,678,742.
Prew, Lionel R.: *See—*
Hendal, Willem P.; and Prew, Lionel R., 3,659,817.
Prew, Stanley R.; and Clark, Llewelyn E., to Beloit Corporation. Noise suppressing baffle discharge exit. 3,687,360, 8-29-72, Cl. 233-46.000.
Preway Inc.: *See—*
Derringer, Ray; and Faehling, Francis L., 3,654,913.
Derringer, Ray, 3,672,349.
Prewett, Hubert P., Jr.; and Thompson, Charles H., to United States of America, Atomic Energy Commission. Automatic spindle growth compensation system. 3,672,246, 6-27-72, Cl. 82-2.00b.
Preysch, Fritz, to Rieter Machine Works, Ltd. Process for changing supply spools and finish wound cops on draw-twisting and draw-winding machines. 3,673,784, 7-4-72, Cl. 57-156.000.
Prezewowsky, Klaus; and Wiechert, Rudolf. Preparation of Δ^{16}-17 ethinyl steroids. 3,682,983, 8-8-72, Cl. 260-397.300.
Prial, Gerard; and Pigulski, Chester J. Bilge cleaner composition. 3,681,264, 8-1-72, Cl. 252-526.000.
Prial, Peter J. Firemens wrench-like tool. 3,641,846, 2-15-72, Cl. 81-90.
Pribil, Rudolf: *See—*
Emr, Antonin; and Pribil, Rudolf, 3,669,988.
Priborsky, Godfrey M.: *See—*
Marion, Thomas E.; and Priborsky, Godfrey M., 3,703,066.
Pribyl, Edward Joseph: *See—*
Fried, Josef; Pribyl, Edward Joseph; and Krapcho, John, 3,652,658.
Price, Albert E.; and Mowatt-Larssen, Erling, to General American Transportation Corporation. Support structure for tank car. 3,662,692, 5-16-72, Cl. 105-358.
Price, Albert E.; and Mansen, Robert L., to General American Transportation Corporation. Railway tank car heating arrangement. 3,685,458, 8-22-72, Cl. 105-358.000.
Price, Alson K.: *See—*
Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,641,083.
Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,651,105.
Sweeney, Richard F.; and Price, Alson K., 3,642,880.
Sweeney, Richard F.; Price, Alson K.; and Khan, Aziz U., 3,644,513.
Sweeney, Richard F.; and Price, Alson K., 3,651,069.
Sweeney, Richard F.; Khan, Aziz Urrehman; Price, Alson K.; Jones, Edward Stephen; and Otto, Julian A., 3,674,800.
Sweeney, Richard F.; and Price, Alson K., 3,681,413.
Price, Alson K.; and Sukornick, Bernard, to Allied Chemical Corporation. Polyfluoroisoalkoxyalkyl pyridinium salts. 3,674,798, 7-4-72, Cl. 260-297.00r.
Price, Alson Kay: *See—*
Khan, Aziz Urrehman; Price, Alson Kay; and Sweeney, Richard F., 3,651,073.
Price, Carl. Pump impeller housing with integral flow regulator. 3,698,832, 10-17-72, Cl. 415-148.000.
Price, Charles E. Fluid flow control device. 3,680,574, 8-1-72, Cl. 137-81.500.
Price, Charles W. Directional warning device for slow moving vehicles. 3,633,161, 1-4-72, Cl. 340-133.
Price Company Limited, The: *See—*
Vessie, Alexander McIntosh, 3,690,923.
Price, Daniel J. Bearing grinding machine. 3,641,716, 2-15-72, Cl. 51-241.
Price, David B., to Westinghouse Electric Corporation. Base containing an electric heater element and an automatic temperature con-

trol for supporting glass or ceramic cookware. 3,666,920, 5-30-72, Cl. 219v449.
Price, David D., Jr.: *See—*
De Bell, Lawrence R.; and Price, David D., Jr., 3,691,314.
De Bell, Lawrence R.; and Price, David D., Jr., 3,705,271.
Price, Desmond Alfred: *See—*
Pacini, Bruno Marcio; Price, Desmond Alfred; and Parikh, Anil Chandrakant, 3,675,408.
Price, Duane L. Water meter freeze protector. 3,648,520, 3-14-72, Cl. 73-277.
Price, Edgar E. Electro-optical display system. 3,699,242, 10-17-72, Cl. 178-5.4bd.
Price, Edward W., to United States of America, Navy. Igniter-attenuator device for attenuating combustion instability in rocket motors. 3,665,706, 5-30-72, Cl. 60-39.72p.
Price, Frank B.: *See—*
Steele, Clarence R.; Price, Frank B.; and Marshall, John M., 3,697,324.
Price, Franklin Carr. Tuyere assembly. 3,672,648, 6-27-72, Cl. 263-21.00a.
Price, Franklin Carr. Method and apparatus for scrubbing gases. 3,676,982, 7-18-72, Cl. 55-95.000.
Price, Frederick William; and Williams, Derek, to Simms Motor Units Limited. Governor devices. 3,643,514, 2-22-72, Cl. 73-530.
Price, George E., to Pacific Coast Pipe Limited, mesne. Wood truss arrangement. 3,702,050, 11-7-72, Cl. 52-693.000.
Price, Glenn R.; and Walsh, Edward N., to Stauffer Chemical Company. Phosphorylated heterocyclic compounds as herbicides. 3,666,435, 5-30-72, Cl. 71-87.000.
Price, H. C., Co.: *See—*
Elliott, Bernard V., 3,700,223.
Harris, Robert J.; and Lee, Irvin J., 3,674,546.
Versoy, Harry N.; and Harris, Robert J., 3,661,624.
Price, Harold J.; and Snyder, Robert M., to Oceanography Development Corporation. Navigation system. 3,687,556, 8-29-72, Cl. 356-152.000.
Price, Harold M.: *See—*
Linzer, Frederick D.; and Price, Harold M., 3,635,091.
Price, Herbert K., to Reynolds Metals Company. Method of making a composite board product from scrap materials. 3,671,615, 6-20-72, Cl. 264-39.000.
Price, Herbert K., to Reynolds Metals Company. Method for forming a matte finish on a surface. 3,690,985, 9-12-72, Cl. 156-254.000.
Price, Howard; Wallick, Seymour; and Math, Irwin, to International Patents & Development Corporation. Refuse compactor. 3,638,561, 2-1-72, Cl. 100-215.
Price, James H. Job site apparatus for horizontally pouring and vertical stocking of thin slabs. 3,640,658, 2-8-72, Cl. 25-1.
Price, James W.: *See—*
Knudsen, Raymond G.; Price, James W.; and Olson, Gene E., 3,675,516.
Price, John A.: *See—*
Stewart, Mary J.; and Price, John A., 3,634,357.
Stewart, Mary J.; and Price, John A., 3,640,964.
Stewart, Mary J.; and Price, John A., 3,644,292.
Stewart, Mary J.; and Price, John A., 3,644,295.
Price, John A.; and Stewart, Mary J., to FMC Corporation. Polyester condensation process using alkali metal germanates. 3,635,900, 1-18-72, Cl. 260-75.
Price, John A.; and Stewart, Mary J., to FMC Corporation. Titanium compounds as polycondensation catalysts in preparation of linear polyesters. 3,644,291, 2-22-72, Cl. 260-75.
Price, John A.; and Stewart, Mary J., to FMC Corporation. Polyesters stabilized with ammonium hexafluorophosphate fluoride, tripropylammonium dihydrogen phosphate, and tetramethylammonium hexafluorophosphate. 3,661,842, 5-9-72, Cl. 260-45.9.
Price, John A.; and Stewart, Mary J., to FMC Corporation. Zinc and manganese gentisate as polyester catalysts and molecular weight enhancer. 3,673,157, 6-27-72, Cl. 260-75.00r.
Price, John A.; and Stewart, Mary J., to FMC Corporation. Metal 2,5-dimethoxy cinnamic salts as catalysts-optical brighteners for polyester resins. 3,692,741, 9-19-72, Cl. 260-47.00c.
Price, John A.; and Stewart, Mary J., to FMC Corporation. Deep dyeable copolyester resins. 3,700,644, 10-24-72, Cl. 260-75.00n.
Price, John H. Method and means for cutting trees. 3,635,269, 1-18-72, Cl. 144-309.
Price, John R., to Leigh Products, Inc. Pegboard hook for alternate thickness pegboards. 3,664,625, 5-23-72, Cl. 248-223.
Price, Kenneth E.; and Presby, Edwin E., to Rainbow Lifeguard Products, Inc. Fishing float construction. 3,657,837, 4-25-72, Cl. 43-43.1.
Price, Kenneth R., to Huyck Corporation. Industrial conveyor belts. 3,664,907, 5-23-72, Cl. 161-89.000.
Price, Lawrence, to Scott Paper Company. Furfurvylidene-lower haloalkane photosensitive composition containing arylamino disulfide. 3,649,284, 3-14-72, Cl. 96-90.
Price, Leonard W.: *See—*
Goldin, Morris; and Price, Leonard W., 3,667,147.
Price, Lorenzo S., to Guth, Edwin F., Company, The. Illumination. 3,693,045, 9-19-72, Cl. 315-91.000.
Price, Michael Stuart Thomas: *See—*
Gough, John Richard Cox; Meaden, Geoffrey William; and Price, Michael Stuart Thomas, 3,668,284.
Price, Norman L.: *See—*
Olson, John E.; Bostad, Wayne W.; and Price, Norman L., 3,670,626.
Price, Oscar La Rue, to Du Pont de Nemours, E. I., and Company. Tow crimping apparatus. 3,633,255, 1-11-72, Cl. 28-1.6.
Price, Paul B.: *See—*
Alter, Henry Ward; and Price, Paul B., 3,665,194.
Fleischer, Robert L.; and Price, Paul B., 3,677,844.
Price, Ralph E., to Landis Tool Company, mesne. Grinding wheel advancing apparatus. 3,636,664, 1-25-72, Cl. 51-165.9.
Price, Ralph E.; and Gebel, Kurt M., to Landis Tool Company, mesne. Slide fender with formed flexible protector. 3,653,164, 4-4-72, Cl. 51-268.
Price, Ralph E., to Landis Tool Company, mesne. Means for adjusting the angular relation between a workpiece to be ground and a tool. 3,690,072, 9-12-72, Cl. 51-165.00r.
Price, Raymond E.; and Tirrell, Clifford F., to Grace, W. R., & Co. Closure arresting device. 3,639,968, 2-8-72, Cl. 29-211.
Price, Raymond E.; Tirrell, Clifford F.; Adams, Richard C.; and George, Robert W. Self-adjusting cut-off knife. 3,702,103, 11-7-72, Cl. 113-114.0be.
Price, Richard Thompson; Bauer, Stuart Michael; Brownlee, John; and Goberde, Bastiaan Cornelis, to Organon, Inc. Method of pelletizing analytical or immunological reagents. 3,655,838, 4-11-72, Cl. 264-13.
Price, Richard Thompson, to Organon, Inc. Diagnostic test slide. 3,666,421, 5-30-72, Cl. 23-253.0tp.
Price, Rita L. Protective apron for container. 3,693,829, 9-26-72, Cl. 220-90.000.
Price, Robert H., to Control Data Corporation. Foil bearing control apparatus. 3,701,135, 10-24-72, Cl. 340-174.10e.
Price, Vernon G.; and Grow, Richard W., to United States of America, Atomic Energy Commission. Compact high-power broadband radio-frequency load termination. 3,641,465, 2-8-72, Cl. 333-22.
Price, Warren H.: *See—*
Enters, Edward W.; Price, Warren H.; Davies, John W., III; and Hochwitz, Lynn E., 3,678,770.
Price, Warren H., to Gilson Bros. Co. Adjustable wheel bracket assembly. 3,649,828, 3-14-72, Cl. 250-43.17.
Price, William C.: *See—*
Carlson, Carl B.; McKeeman, William M.; and Price, William C., 3,699,528.
Price, William Chandler; and Billard, Stephen Lane, to Burroughs Corporation. Digital computer with a program-trace facility. 3,659,272, 4-25-72, Cl. 340-172.5.
Price, William Chandler; Hauck, Erwin A.; and Vigil, Jacob F., to Burroughs Corporation. Apparatus for interrogating the availability of a communication path to a peripheral device. 3,693,161, 9-19-72, Cl. 340-172.500.
Price, William H.: *See—*
Straw, Kimball; and Price, William H., 3,649,101.
Price, William H., to Eastman Kodak Company. Folded path zoom lens. 3,658,411, 4-25-72, Cl. 350-184.
Price, William H., to Eastman Kodak Company. Modified triplets with reduced secondary spectrum. 3,694,057, 9-26-72, Cl. 350-227.000.
Price, William R.: *See—*
Buschman, Elmer W., 3,678,653.
Price-Pfister Brass Mfg., Co.: *See—*
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Lyon, John K., 3,661,180.
Lyon, John K., 3,675,682.
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Palmer, Patsy B.; and Tolnai, Julius L., 3,661,181.
Rokitenetz, Walter, 3,646,619.
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Pricer, W. David: *See—*
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Bossen, Douglas C.; Henle, Robert A.; Hsiao, Mu Y.; Maley, Gerald A.; and Pricer, W. David, 3,675,200.
Pricer, Wilbur D.: *See—*
Beausoleil, William F.; Ordemann, Fred A., Jr.; Pricer, Wilbur D.; and Vogl, Norbert G., Jr., 3,648,255.
Pricer, Wilbur David: *See—*
Castrucci, Paul P.; Gates, Harlan R.; Henle, Robert A.; Pricer, Wilbur David; Morton, Robert M.; Mason, John W.; and North, William D., 3,641,516.
Prichard, Evan S., to Challenge-Cook Bros., Incorporated. Concrete transit mixer with forward discharge mechanism. 3,633,879, 1-11-72, Cl. 259-172.
Prichard, John P.: *See—*
Long, William D.; Fell, Ferol S.; Wells, Bernard L.; and Prichard, John P., 3,670,590.

Prichard, William W., to Du Pont de Nemours, E. I., and Company. Preparation of acyl fluorides by carbonylation of aromatic halides in the presence of an alkali metal fluoride and a ruthenium-, rhodium- or palladium-containing catalyst. 3,632,643, 1-4-72, l. 260-544.
Prichard, William W., to Du Pont de Nemours, E. I., and Company. Catalytic preparation of chloroacid chlorides. 3,681,449, 8-1-72, Cl. 260-544.00a.
Prickett, Warren Wilson: *See—*
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Priddy, Duane B.: *See—*
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Pride, Emanuel; and Warren, Brian, to Abbott Laboratories. Method of determining haemoglobin. 3,677,707, 7-18-72, Cl. 23-230.00b.
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Weaver, Max A.; and Pridgen, Herman S., 3,639,385.
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Weaver, Max A.; Pridgen, Herman S.; and Coates, Clarence A., Jr., 3,660,374.
Pridham, David I. Friction resistance exerciser. 3,650,531, 3-21-72, Cl. 272-79.
Pridham, Ernest R.: *See—*
Smith, Benjamin C.; and Pridham, Ernest R., 3,635,149.
Priebe, Edmund: *See—*
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Priebe, Frank K., to United States of America, Army. Monolithic coupled crystal resonator filter having cross impedance adjusting means. 3,686,592, 8-22-72, Cl. 333-71.000.
Priebe, Fritz, to Schloemann Aktiengesellschaft. Hydraulic sheet-stretching machines. 3,685,333, 8-22-72, Cl. 72-302.000.
Priede, Bruno Andreevich: *See—*
Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leeniex, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreevich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
Priefert, Marvin J. Cattle chute. 3,683,864, 8-15-72, Cl. 119-99.000.
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Van Paesschen, August Jean; and Priem, Jan Jozef, 3,635,713.
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Pries, Erich E. W., to Otto, Dr., C., & Comp. G.m.b.H. Charging car for coke ovens. 3,672,519, 6-27-72, Cl. 214-35.00r.
Pries, Erich E. W., to Otto, C., Dr., & Comp. G.m.b.H. Charging car for coke ovens. 3,675,797, 7-11-72, Cl. 214-35.00r.
Priesemuth, Wolfgang. Diaphragm relay. 3,681,720, 8-1-72, Cl. 335-61.000.
Priessnetz, Edmund F., to Electronic Transmission Systems, Inc. Stylus and mounting for electric discharge facsimile recorder. 3,683,412, 8-8-72, Cl. 346-139.00a.
Priessnetz, Edmund F.; and Scott, Raymond, to Electronic Transmission Systems, Inc. Optical system for facsimile scanners and the like. 3,684,889, 8-15-72, Cl. 250-216.000.
Priest, Edward D., to Parker Manufacturing Company. Shear stop. 3,681,844, 8-8-72, Cl. 30-266.000.
Priest, Ernest H.; and Priest, Gordon M. Pumping a high or low temperature fluid. 3,666,375, 5-30-72, Cl. 415-112.
Priest, Gordon M.: *See—*
Priest, Ernest H.; and Priest, Gordon M., 3,666,375.
Priest, John G.: *See—*
Keeling, Robert A.; and Priest, John G., 3,660,196.
Priest, Melvin E., to Deere & Company. Spray type row crop thinner. 3,701,218, 10-31-72, Cl. 47-1.430.
Priest, Wayne A.: *See—*
Schumann, Robert J.; and Priest, Wayne A., 3,663,826.
Priest, Wayne A.; and Weigand, Arthur D., to Dutton-Lainson Company. Transmission and coil brake for winches. 3,687,249, 8-29-72, Cl. 192-4.00r.
Priest, William J.; and Marshall, Akemi S., to Eastman Kodak Company. Azido-s-triazines. 3,646,032, 2-29-72, Cl. 260-249.9.
Priestley, Hill M., to Lever Brothers Company. Dialkyl selenoxide hydronitrates. 3,642,909, 2-15-72, Cl. 260-607.
Priestley, Hill M.; and Wilson, James H., to Lever Brothers Company. Dodecylether methyl sulfides. 3,660,497, 5-2-72, Cl. 260-609.
Priestley, Hill M.; and Wilson, James H., to Lever Brothers Company. Detergent compositions. 3,670,027, 6-13-72, Cl. 260-593.00r.
Priestley, Hill M., to Lever Brothers Company. Process and compounds. 3,697,587, 10-10-72, Cl. 260-501.190.
Priestley, Ronald. Gas/liquid film contact apparatus. 3,704,869, 12-5-72, Cl. 261-112.000.
Priet, Roger Alois: *See—*
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Prieur, Hubertus; Vom Dorp, Walter; and Zeunert, Fritz, to McKay Machine Company, The. Apparatus for forming pilger die grooves. 3,688,643, 9-5-72, Cl. 90-24.300.
Prieur, Lucien Robert: *See—*
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Prigent, Claude, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Method and device for changing the direction of motion of articles. 3,642,115, 2-15-72, Cl. 198-28.
Prigent, Michel; and Dezael, Claude. Process for removing carbon dioxide from gases. 3,692,649, 9-19-72, Cl. 204-129.000.
Prigge, Helmut: *See—*
Eck, Herbert; Heckmaier, Joseph; Prigge, Helmut; and Spes, Hellmuth, 3,702,339.
Prigozy, Stephen: *See—*
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Prijn, Cornelis; and Benedetti, Franco, to U.S. Philips Corporation. Electric lamp comprising a lamp base of a synthetic material. 3,673,453, 6-27-72, Cl. 313-318.000.
Prikhna, Alexei Iosifovich Alexei: *See—*
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Prill, Arnold L.; and Tarkan, Stuart E., to Chromalloy American Corporation. Tungsten carbide dispersion in age-hardenable cupro-nickel. 3,674,575, 7-4-72, Cl. 148-32.500.
Prill, Arnold Louis, to Chromalloy American Corporation. Temper resistant chromium-containing titanium carbide tool steel. 3,653,982, 4-4-72, Cl. 148-31.
Prill, Erhard J.: *See—*
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Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,644,493.
Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,655,726.
Prill, Erhard J., to Monsanto Company. Method of inhibiting growth of unwanted vegetation. 3,671,218, 6-20-72, Cl. 71-115.000.
Prill, Robert S., to Singer Company, The, mesne. Circuit for converting an unknown analog value into a digital value by successive approximations. 3,678,501, 7-18-72, Cl. 340-347.0ad.
Prill, Robert S., to Singer Company, The, mesne. Analog-to-digital converter. 3,697,978, 10-10-72, Cl. 340-347.0ad.
Prillig, Elliott, to Abbott Laboratories. Gastric-resistant tablets coated with erythrosine and hydroxypropylethylcellulose. 3,639,565, 2-1-72, Cl. 424-35.
Prillwitz, Rolf: *See—*
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Primachuk, Edward R.: *See—*
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Primak, William L., to United States of America, Atomic Energy Commission. Automatic photoelastimeter. 3,672,772, 6-27-72, Cl. 356-33.000.
Prime, Derek Arthur, to Banford, J. C., Excavators Limited. Tooth mounting means for earth working implements. 3,678,605, 7-25-72, Cl. 37-141.00t.
Primessing, Franz: *See—*
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Primoff, Eugene H.; and Eichner, Alfred. Electric circuit board and connectors therefor. 3,663,923, 5-16-72, Cl. 339-18.
Primorac, Michel M., to Berg Electronics, Inc. Electrical connector and block. 3,654,592, 4-4-72, Cl. 339-176.
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Prince, Frank R., to Atlantic Richfield Company. Production of 2-pyrrolidones. 3,637,743, 1-25-72, Cl. 260-326.5.
Prince, Larry W. Toothbrush with ultraviolet emitter. 3,667,454, 6-6-72, Cl. 128-24.2.
Prince Manufacturing Corporation: *See—*
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Prince, Martin; Blanck, Hillard; and Tarancon, Gregorio, to Saleen Development Corporation. Removal of particulate matter from gaseous wastes by wet collectors. 3,667,191, 6-6-72, Cl. 55-87.000.
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Prince, Richard N.; and Maylott, Asa O., to California and Hawaiian Sugar Company. Continuous invert sugar process. 3,632,446, 1-4-72, Cl. 127-41.
Prince, Thomas E., to United States of America, Navy. Laser-guided boring tool for deep hole boring. 3,635,108, 1-18-72, Cl. 82-1.
Princen, Lambertus H., to United States of America, Agriculture. Glossy finish linseed water emulsion paints and nonaglommerated pigment composition for said paints. 3,681,099, 8-1-72, Cl. 106-254.000.
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Pringle, Frank E., Jr.; West, George Allan; Vogel, Walter H.; Safranski, Richard W.; and Drake, Frederick R., to Hayssen Manufacturing Company. Method of and apparatus for forming packages with tear tabs. 3,681,890, 8-8-72, Cl. 53-14.000.
Pringle, William L.: *See—*
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Pringle, William L., to Allied Chemical Corporation. Time delay retractor. 3,632,057, 1-4-72, Cl. 242-107.4.
Pringle, William L., to Robbins, Jim, Seat Belt Company. Automatic locking retractor. 3,635,419, 1-18-72, Cl. 242-107.4.
Pringle, William L. Fuel tank assembly. 3,648,886, 3-14-72, Cl. 220-985.
Pringle, William L., to Radke, Lee, Associates, Inc. Remotely controlled day-night mirror. 3,655,273, 4-11-72, Cl. 350-281.
Pringle, William L., to Pullman Incorporated. Highway trailer vehicle with offset truss structure. 3,675,964, 7-11-72, Cl. 296-1.00a.
Pringle, William L., to Pullman Incorporated. Railway car. 3,677,193, 7-18-72, Cl. 105-368.00r.
Pringle, William L., to Pullman Incorporated. Articulated railway car. 3,678,863, 7-25-72, Cl. 105-4.00r.
Pringle, William L., to Pringle, William L., and Associates, Inc. Fuel tank assembly. 3,701,540, 10-31-72, Cl. 280-5.00a.
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Prins, Richard, Sr.; and Prins, Richard, Jr., to Wolverine Manufacturing Company, mesne. Poultry manure drier and sterilizer. 3,697,056, 10-10-72, Cl. 263-8.00r.
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Prinz, Roy H., to Celanese Corporation. Recovery of polyhydric alkanols and metal salts of alkanoic acids. 3,706,793, 12-19-72, Cl. 260-542.000.
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Prior, Josef; and Florin, Aloys, to Dynamit Nobel Aktiengesellschaft. Priming composition. 3,634,155, 1-11-72, Cl. 149-26.
Prior, Josef; and Florin, Aloys, to Dynamit Nobel Aktiengesellschaft. Detonator device for explosive charge exhibiting detonating effect capable of bridging gap between spaced charges. 3,688,702, 9-5-72, Cl. 102-70.000.
Prior, Josef. Flame sensitive ignitor. 3,690,260, 9-12-72, Cl. 102-86.500.
Prior, William L., to Vychem, Inc., mesne. High production machine utilizing spray masks. 3,635,194, 1-18-72, Cl. 118-301.
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Prislan, Georges, to Societe Boussoirs-Souchon-Neuvesel. Apparatus for the drawing of continuous sheets of glass including glass melt heating and cooling means. 3,658,503, 4-25-72, Cl. 65-162.
Prislan, Georges, to Boussois Souchon Neuvesel. Process for the manufacture of flat glass. 3,692,508, 9-19-72, Cl. 65-91.000.
Pritchard, Donald A.; and Gomez, Aldan Duane, to Ametek, Inc. Dual-channel logarithmic amplifier. 3,662,274, 5-9-72, Cl. 329-192.
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Pritchard, James E., to Phillips Petroleum Company. Electrical cable having an ethylene-1-olefin copolymer as the dielectric material. 3,674,915, 7-4-72, Cl. 174-102.00r.
Pritchard, John P., Jr.; and Schroen, Walter H., to Texas Instruments, Incorporated. Process for preparation of tunneling barriers. 3,673,071, 6-27-72, Cl. 204-192.000.
Pritchett, Oscar G.; and Derry, Charles E. Retractable flood lamp. 3,666,935, 5-30-72, Cl. 240-1.200.
Pritchett, William C.: *See—*
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Privett, Peter Arthur. Cultivation receptacle. 3,667,158, 6-6-72, Cl. 47-17.000.
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Probst, Georg; and Herterich, Walter, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Miniature tape recorder. 3,693,984, 9-26-72, Cl. 274-4.00c.
Probst, Otto: *See—*
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Probst, Richard O., to Ransburg Electro-Coating Corporation. Method of electrostatic spraying. 3,676,194, 7-11-72, Cl. 117-93.40r.
Probst, Richard O.; and Moos, Albert H., to Ransburg Electro-Coating Corporation. Nozzle holder. 3,677,470, 7-18-72, Cl. 239-15.000.
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Prochazka, Miloslav; and Kaulich, Karel, to Elitex, Zavody textilhino strojirenstvi generalni reditelstvi. Checking mechanism for detecting yarn breakages in open end spinning machines. 3,643,414, 2-22-72, Cl. 57-83.
Prochazka, Miloslav; Cesenek, Bedrich; Mach, Vladimir; Kaulich, Karel; Zdenka, Cerveny; and Bradzda, Ladislav; deceased (by Brazdova, Drahuska; and Brazdova, Dagmar; heirs), said Prochazka, said Cesenek, said Mach, said Kaulich and said Pacakova assors. toElitex, Zavody textilniho strojirenstvi generalni reditelstvi. Apparatus for the continuous spinning of textile fibers. 3,648,450, 3-14-72, Cl. 57-58.89.
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Prot, Marcel, to Mead-Emballage. Packaging device for displaying and transporting containers. 3,687,281, 8-29-72, Cl. 206-65.00r.
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Protas, Arthur I., to Cartridge Television, Inc. Tape cartridge construction. 3,677,494, 7-18-72, Cl. 242-194.000.
Protas, Arthur I., to Cartridge Television, Inc. Head-to-tape alignment apparatus and method. 3,697,676, 10-10-72, Cl. 178-6.60p.
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Protze, Josef; and Leidl, Max, to Messer Griesheim GmbH. Pipe cutting device. 3,688,615, 9-5-72, Cl. 82-70.200.
Protzman, Thomas F.; and Magidson, William H., to Staley, A. E., Manufacturing Company. Color television tube fabrication. 3,676,127, 7-11-72, Cl. 96-36.100.
Protzman, Thomas F., to Staley, A. E., Manufacturing Company. Predetermined chemical reactions in photographic imagewise configuration. 3,676,145, 7-11-72, Cl. 96-115.000.
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Proulx, George G., to Honeywell Inc. Electropneumatically controlled servo for tape mechanism. 3,701,494, 10-31-72, Cl. 242-184.000.
Proulx, Romeo T., to Wright, Barry, Corporation. Support for rotary filing system. 3,672,740, 6-27-72, Cl. 312-202.000.
Prouty, Robert E., to Essex International, Inc. Time delay solenoid. 3,643,193, 2-15-72, Cl. 335-240.
Prouty, Robert E.; Gilman, John E., III; and Smith, James J., to Essex International, Inc. Time delay electromagnetic device. 3,656,076, 4-11-72, Cl. 335-240.
Prouty, Robert E., to Essex International, Inc. Relay actuator utilizing a resilient, iron impregnated pad. 3,693,125, 9-19-72, Cl. 335-271.000.
Prouty, Robert E.; and Smith, James J., to Essex International, Inc. Starting and overload control device for electric motors. 3,694,717, 9-26-72, Cl. 318-221.00c.
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McKee, Clyde M.; Provenzino, Andrew V.; and Scott, Ward, 3,640,609.
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Provi, Mike A.; and Guinter, S. Robert, to Brearley Company, The. Damage resistant bathroom scale construction. 3,666,031, 5-30-72, Cl. 177-186.
Provi, Mike A.; and Aleks, Vytant, to Brearley Company, The. Knock-down hampers. 3,692,204, 9-19-72, Cl. 220-4.00r.
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Prugger, Hans; and Torge, Reimund, to Carl Zeiss-Stiftung; d/b/a Zeiss, Carl. Device for the spectrochemical determination of the concentration of an element in a sample. 3,676,004, 7-11-72, Cl. 356-87.000.
Pruitt, Charles N.; Segars, Douglas L.; and Miller, Walter L., to Raybestos-Manhattan, Inc. Mold for manufacture of cored rubber rolls. 3,647,336, 3-7-72, Cl. 425-146.
Pruitt, Dana L. Lift chain connector. 3,652,116, 3-28-72, Cl. 294-82.
Pruitt, Larry J., to Grace, W. R., & Co. Vacuumizing apparatus. 3,648,740, 3-14-72, Cl. 141-8.
Pruitt, Ronnie M.; and Jones, Howard D., to Dow Chemical Company, The. Prepolymers and fire retardant polyurethanes therefrom. 3,692,707, 9-19-72, Cl. 260-2.5aj.
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Prusinski, Richard C.; Fermani, Marcello; Torcolacci, Attilio; and Fermani, Luigi, to Architectural Research Corporation. Panel construction. 3,679,529, 7-25-72, Cl. 161-44.000.
Prussin, Samuel Benjamin; and Mason, Jimmie L., to Dart Industries, Inc. Self-cleaning valve for aerosol containers. 3,653,553, 4-4-72, Cl. 222-148.
Prussin, Samuel Benjamin; and Tracy, Howard Clyde, Jr., to Dart Industries Inc. Automatic pressure relieving aerosol product. 3,659,755, 5-2-72, Cl. 222-397.000.
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Pruvot, Francois C., to Regie Nationale des Usines Renault. High-pressure multi-cylinder hydraulic machines. 3,702,576, 11-14-72, Cl. 91-487.000.
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Pryor, Dale H., to Youngstown Sheet and Tube Company. Gripper. 3,638,288, 2-1-72, Cl. 24-263.

Pryor, David Ernest; and Forsyth, Bruce Adam, to Imperial Chemical Industries of Australia and New Zealand Limited. Injectable therapeutic tetramisole formulations. 3,670,085, 6-13-72, Cl. 424-270.000.
Pryor, David Ernest; and Forsyth, Bruce Adam, to Imperial Chemical Industries of Australia and New Zealand Limited. Injectable tetramisole compositions. 3,670,086, 6-13-72, Cl. 424-270.000.
Pryor, David J.: *See—*
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Pryor, Frank H. Sawmill. 3,654,972, 4-11-72, Cl. 143-52.
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Pryor, Harry H.; Short, William H.; and Koeneker, William V., to UMC Industries, Inc. Coffee vendor. 3,666,558, 5-30-72, Cl. 134-1.
Pryor, James T., to Perma Products Co. Foldable storage box. 3,667,666, 6-6-72, Cl. 229-16.00b.
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Pryor, Michael J.; and Anthony, William H., to Olin Mathieson Chemical Corporation. Method of making a composite cable sheathing having an aluminum-silicon layer. 3,674,569, 7-4-72, Cl. 148-11.50a.
Pryor, Michael J.; Shapiro, Stanley; Tyler, Derek E.; and Shabarack, John, to Olin Corporation. Composite article. 3,676,088, 7-11-72, Cl. 29-199.000.
Pryor, Michael J.; and Anthony, William H., to Olin Mathieson Chemical Corporation. Aluminum-zinc-boron alloys. 3,676,113, 7-11-72, Cl. 75-146.000.
Pryor, Michael J.; and Popplewell, James M., to Olin Corporation. Composites of glass-ceramic-to-metal seals and method of making same. 3,676,292, 7-11-72, Cl. 161-196.000.
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Pryor, Timothy R. Method and device for measuring strain and other changes in dimension. 3,664,739, 5-23-72, Cl. 256-32.
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Psaar, Hubertus; and Raue, Roderich, to Farbenfabriken Bayer Aktiengesellschaft. Heteryl-methane compounds. 3,637,748, 1-25-72, Cl. 260-326.15.
Psaar, Hubertus; Puschel, Walter; and Raue, Roderich, to Agfa-Gevaert Aktiengesellschaft. Light sensitive material comprising indolylmethane derivatives and tetrabromomethane. 3,684,510, 8-15-72, Cl. 96-48.00r.
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Psenka, Joseph A., to Lear Siegler, Inc. Pot broaching machine. 3,656,401, 4-18-72, Cl. 90-10.
Psenka, Joseph A. Table tennis practice or game board. 3,659,850, 5-2-72, Cl. 273-102.2.
Pshenichny, Gennady Ivanovich; Checheljuk, Yakov Zinovievich; and Afanasiev, Mikhail Andreevich. Stand for assembling and pressing magnetic circuits of power transformers. 3,685,435, 8-22-72, Cl. 100-8.000.
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Puchkoff, Zalman P.; and Topazio, Vincent. Foldable shirt packaging box and carrying container. 3,664,572, 5-23-72, Cl. 229-40.
Puckette, Charles M., to General Electric Company. Synchronizer for sequence generators. 3,654,390, 4-4-72, Cl. 178-69.5.
Puckette, Charles McDonald, to General Electric Company. Slope polarity detector circuit. 3,659,209, 4-25-72, Cl. 328-132.
Puckorius, Paul R.; and Zimmie, William E., to Zimmie, W. E., Inc. Method of removing tubercles using organic polymers and silica and/or chromium compounds. 3,658,710, 4-25-72, Cl. 252-87.000.
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Puetz, Jordan F.; and Stallman, James E., to Square D Company. Armature mounting structure in an electromagnetically operated switch. 3,643,188, 2-15-72, Cl. 335-132.

Puetz, Jordan F.; and Stallman, James E., to Square D Company. Structure for mounting an electromagnet in an electromagnetically operated switch. 3,643,190, 2-15-72, Cl. 335-132.

Puetz, Jordan F., to Square D Company. Movable contact structure for an electric switch. 3,646,491, 2-29-72, Cl. 335-197.

Pufahl, Joseph. Laminated sheet material having a contoured surface. 3,700,539, 10-24-72, Cl. 161-120.000.

Puffer, Edward W.; and Duncan, Howard K., to Outboard Marine Corporation. Riding lawn mower friction drive. 3,667,304, 6-6-72, Cl. 74-197.000.

Puffer, Nathan D., to Minnesota Mining and Manufacturing Company. Transparency projector. 3,632,198, 1-4-72, Cl. 353-60.

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Pugh, Carl Starner, Jr.; and Curry, Robert Clay, to North American Rockwell Corporation, mesne. Heterogeneous construction of textile shuttle side walls. 3,660,219, 5-2-72, Cl. 161-93.

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Pugh, Evelyn M. Hair wave and curl setting device. 3,665,936, 5-30-72, Cl. 132-9.

Pugh, John G. Multiple belt punch. 3,640,481, 2-8-72, Cl. 242-56.8.

Pugh, Mary A. Portable shampooing unit. 3,694,826, 10-3-72, Cl. 4-159.000.

Pugh, Robert E.; and Pritsche, Donald L., to Fike Metal Products Corporation. Light responsive activating apparatus for fire or explosion suppressing systems. 3,685,587, 8-22-72, Cl. 169-19.000.

Pugh, Thomas F. Double wall interlocking panel construction. 3,634,990, 1-18-72, Cl. 52-595.

Pugin, Andre; Burdeska, Kurt; and Model, Ernst. Salicyloylaminoanthraquinone pigments. 3,682,966, 8-8-72, Cl. 260-326.00d.

Pugin, Andre, to Ciba-Geigy AG. Crystalline perylenetetracarboxylic acid dibenzoylhydrazide. 3,697,526, 10-10-72, Cl. 260-281.000.

Pugin, Andre; Burdeska, Kurt; and Model, Ernst, to Ciba-Geigy AG. Salicyloylamino-anthraquinone pigments. 3,701,791, 10-31-72, Cl. 260-377.000.

Pugliese, Albert J. Service vehicle. 3,633,775, 1-11-72, Cl. 214-506.

Pugliese, Joseph A., to Hoke Incorporated. Pipe coupling. 3,695,647, 10-3-72, Cl. 285-341.000.

Pugnaire, Jean-Pierre A., to Bytrex, Inc. Adjustable transducer overload stop. 3,646,809, 3-7-72, Cl. 73-141.

Pugsley, Jack H. Game table with centrally disposed apertured barrier. 3,655,187, 4-11-72, Cl. 273-30.

Pugsley, Peter C.; and Dobouney, Mouayed Edouard, to Crosfield Electronics Limited. Catchlight control in image reproduction systems. 3,634,611, 1-11-72, Cl. 178-5.2.

Puhahn, Werner; and Lampert, Rolf, to Standardwerk Eugen, Reis, GmbH. Coin wrapping machines. 3,650,086, 3-21-72, Cl. 53-59.

Puhk, Heino, to SCM Corporation. Soluble alkali metal salt removal from substantially non-polar liquids. 3,678,097, 7-18-72, Cl. 260-486.00r.

Puhringer, Othmar, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Converter comprising a carrying structure that is open on one side or can be divided. 3,632,098, 1-4-72, Cl. 266-36.

Puhringer, Othmar, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Tiltable crucible or converter. 3,635,458, 1-18-72, Cl. 226-36.

Puig, John E.: *See—*
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Pukhov, Alexandr Leonidovich: *See—*
Tupolev, Andrei Nikolaevich; Tupolev, Alexei Andreevich; Cheremukhin, Georgy Alexeevich; Bliznjuk, Valentin Ivanovich; Pukhov, Alexandr Leonidovich; Svischev, Georgy Petrovich; Bjushgens, Georgy Sergeevich; and Mikeladze, Vitaly Georgievich, 3,677,502.

Pukitis, Ilmar Alfredovich: *See—*
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Puklics, Maria: *See—*
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Pul, Nikolai Kuzmich: *See—*
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Pulacci, Angiolo: *See—*
Franco, Gianfranco; Mancini, Carlo; and Pulacci, Angiolo, 3,638,000.

Pulici, Louis. Method and apparatus for rolling and tucking filled foodstuffs. 3,669,007, 6-13-72, Cl. 99-450.600.

Pulkkinen, Erkki J., to Allied Chemical Corporation. 3,3,3',3'-Tetramethyl-6,6'-di(2-hydroxypropoxy)-1,1'-spirobiindane and polyesters derived therefrom. 3,658,941, 4-25-72, Cl. 260-861.

Pull, Bernard T.: *See—*
Ronzio, Anthony R.; and Pull, Bernard T., 3,645,763.

Pullan, Ronald C., to Knape & Vogt Manufacturing Company. Bracket construction. 3,695,569, 10-3-72, Cl. 248-235.000.

Pullen, Edward A.: *See—*
Dorsey, William Smith; Hallis, Thomas, Jr.; and Pullen, Edward A., 3,659,772.

Pullen, Eric V.: *See—*
Manoogian, Alex; and Pullen, Eric V., 3,645,493.
Manoogian, Alex; and Pullen, Eric V., 3,674,048.

Pulley, Monroe, Jr.: *See—*
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Pulliam, George R.: *See—*
Mee, Jack E.; Heinz, David M.; Hamilton, Thomas N.; Besser, Paul J.; and Pulliam, George R., 3,645,787.
Mee, Jack E.; Heinz, David M.; Hamilton, Thomas N.; Besser, Paul J.; and Pulliam, George R., 3,645,788.

Pulliam, Joseph H.; and McCurnin, Thomas W., to Iota Engineering, Inc. Fluid level sensor and system. 3,701,138, 10-24-72, Cl. 340-244.00r.

Pulliam, Richard D.: *See—*
Davis, Buell L.; and Pulliam, Richard D., 3,688,379.

Pulliam, William D. Automatic washing apparatus. 3,698,029, 10-17-72, Cl. 15-21.00d.

Pullman Incorporated: *See—*
Anderson, C. H.; and Griffiths, Colin, 3,706,449.
Bateson, Norman E.; and Pringle, William L., 3,675,592.
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Brinks, Floyd J.; Day, Lucian P., Jr.; and Jones, Jerry L., 3,678,867.
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Heinz, Robert G.; Cohen, Harry; and Carmel, Edwin L., 3,693,306.
Hounshell, James R.; and Pringle, William L., 3,677,197.
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Miller, Roy W., 3,632,174.
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Yang, Tung H.; and Spence, John H., 3,677,198.
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Pullman, James O.; and Weidlich, William R., to Liggett & Myers Incorporated. Relative carbon content meter for smoke filters. 3,696,299, 10-3-72, Cl. 324-61.00r.

Pullman Transport Leasing Company, mesne: *See—*
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Pulman, Prockter T.; and Horsfall, Geoffrey D. S. Method of and device for introducing a soluble additive into a solvent. 3,645,236, 2-29-72, Cl. 119-81.
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Pulp and Paper Research Institute of Canada: *See—*
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Clayton, David W.; and Sakai, Asahi, 3,664,918.
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Puls, Werner H.: *See—*
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Pulsotronic Merten KG: *See—*
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Pulver, Willis Clark, to Velten & Pulver, Inc. Conveyor system and attachments therefor. 3,669,247, 6-13-72, Cl. 198-189.000.
Pum, Franz J.; and Schnetzinger, Richard W., to Revlon, Inc. Process of mono-and di-nitrating p-phenylene diamine compounds. 3,654,363, 4-4-72, Cl. 260-577.
Puma, Maurice J.: *See—*
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Pumpen- und Maschinenfabrik Lederie OHG: *See—*
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Pumpenfabrik Urach: *See—*
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Pumphrey, Nicholas William James; and Moss, Keith Graham, to Imperial Chemical Industries Limited. Stripping of coated titanium electrodes for re-coating. 3,706,600, 12-19-72, Cl. 134-3.000.
Puna, Erich, to Brundell Och Jonsson AB. Tree harvesting machine. 3,643,711, 2-22-72, Cl. 144-2.
Pungs, Wolfgang: *See—*
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Puppolo, Henry F.; and Markarian, Mark, to Sprague Electric Company. Electrolytic book capacitor. 3,654,524, 4-4-72, Cl. 317-230.
Purcell, Antoinette M.; Thies, Curt; Bank, Morris I.; and Leffingwell, James W., to National Cash Register Company, The. Method of using display device utilizing polymer-polymer miscibilities. 3,694,246, 9-26-72, Cl. 117-36.700.
Purcell, Antoninette M., to National Cash Register Company, The. Encapsulation process and its product. 3,640,892, 2-8-72, Cl. 252-316.
Purcell, Chester L.; and Smarook, Walter H., to Union Carbide Corporation. Bonding with ammonium polymer salts. 3,674,896, 7-4-72, Cl. 260-897.00b.
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Purcell, Thomas H., Jr., to ESB Incorporated. Reserve liquid storage and dispensing device. 3,669,320, 6-13-72, Cl. 222-389.000.
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Purdes, Andrew J.; and Jost, Ernest M., to Texas Instruments, Incorporated. Method of modifying electrical resistivity characteristics of dielectric substrates. 3,642,527, 2-15-72, Cl. 117-212.
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Purdy, Bruce W.; and Perti, Donato, to Ocean Data Equipment Corporation. Digital phase measurement/computation circuit. 3,663,956, 5-16-72, Cl. 324-83.
Purdy, David L., to Nuclear Materials and Equipment Corporation. Electrical generator. 3,649,367, 3-14-72, Cl. 136-202.
Purdy, David L.; Nyce, Andrew C.; and Forscher, Frederick, to Arco Nuclear, mesne. Thermoelectric apparatus. 3,661,653, 5-9-72, Cl. 136-212.
Purdy, Don Ryall; and Donnelly, William Edward, to RCA Corporation. Fluid cooled apparatus for testing power semiconductor devices. 3,648,167, 3-7-72, Cl. 324-158.
Purdy, Harold L., to Stackpole Carbon Company. Reciprocating switch mechanism with improved thumbwheel actuator including rack and pinion structure. 3,639,706, 2-1-72, Cl. 200-17.
Purdy, Haydn V.; and Mc Intosh, Ronald C. Electrical contact-making keyboards. 3,668,694, 6-6-72, Cl. 340-365.
Purdy, Leonard R., to Lanier Industries, Inc. Airfoil structure. 3,645,481, 2-29-72, Cl. 244-123.
Purdy, Richard A.; and Rutledge, Thomas F., to American Metal Climax, Inc. Method and apparatus for cleaning conveyor belts. 3,680,684, 8-1-72, Cl. 198-230.000.
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Puretic, Mario J. Power block. 3,643,921, 2-22-72, Cl. 254-138.
Purewal, Karmjit: *See—*
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Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov Nikolai Nikolaevich; Purmalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and rits, Leonid Borisovich, 3,683,683.

Purnell, John M., to Grovhac, Inc. Spray gun. 3,667,682, 6-6-72, Cl. 239-412.000.

Purnell, Merton V., to Watkins-Johnson Company. Periodic permanent magnet focused travelling wave tube. 3,684,914, 8-15-72, Cl. 315-3.500.

Purolator, Inc.: *See—*
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Purolator Products, Inc.: *See—*
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Purrer, Josef, to Maschinenfabrik Fahr Aktiengesellschaft. Pivot assembly for haymaking machines and the like. 3,638,977, 2-1-72, Cl. 287-99.

Purrer, Josef, to Maschinenfabrik Fahr AG. Field harvester for row crops. 3,705,482, 12-12-72, Cl. 56-13.900.

Purrmann, Robert: *See—*
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Pursell, Herbert P.: *See—*
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Purser, Charles Ralph: *See—*
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Pursol Chemical Corporation: *See—*
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Purt, Gustav; Bosshard, Walter; and Meier, Gerhard, to Cerberus AG. Apparatus for checking operation of smoke detectors. 3,693,401, 9-26-72, Cl. 73-1.00r.

Purves, Edward R.: *See—*
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Pusch, Dietrich, to Continental Gummi-Werke Aktiengesellschaft. Elastic bearing for motor suspension of motor vehicles. 3,679,158, 7-25-72, Cl. 248-10.000.

Pusche, Herbert; Sander, Harry; and Neuss, Hans-Wilhelm, to Knapsack Aktiengesellschaft. Safety device for preventing the return movement of electrodes in electric furnaces or similar apparatuses. 3,666,868, 5-30-72, Cl. 13-15.000.

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Pushnig, Godfrey; and Battistone, Nicola. Convertible snow track-wheeled scooter type vehicle. 3,650,342, 3-21-72, Cl. 180-5.

Puskas, Elek, to Snyder, Steve, Enterprises, Inc. Tape pick-up head demagnetizer. 3,655,924, 4-11-72, Cl. 179-100.2.

Puskas, William L.: *See—*
Smith, Emile G.; and Puskas, William L., 3,673,432.

Puskas, William L., to Branson Instruments, Incorporated. Oscillatory circuit for utrasonic cleaning apparatus. 3,651,352, 3-21-72, Cl. 310-908.1.

Puskas, William L., to Branson Instruments, Incorporated. Oscillatory circuit for ultrasonic cleaning apparatus. 3,681,626, 8-1-72, Cl. 310-8.100.

Pussell, Clarence R. Electrically operated temperature sensing assembly. 3,695,112, 10-3-72, Cl. 73-362.0ar.

Puster, Louis M., to Robertshaw Controls Company. Pneumatic positioning apparatus and parts therefor or the like. 3,633,465, 1-11-72, Cl. 92-13.3.

Puster, Louis M., to Robertshaw Controls Company. Gage construction and link means therefor. 3,633,535, 1-11-72, Cl. 116-129.

Puster, Louis M., to Robertshaw Controls Company. Control system and method for operating heat exchanger means and the like. 3,662,948, 5-16-72, Cl. 236-46.

Puster, Louis M., to Robertshaw Controls Company. Method of making a poppet valve construction. 3,681,832, 8-8-72, Cl. 29-157.10r.

Puster, Louis M.; and Caldwell, Edward M., to Robertshaw Controls Company. Pneumatic control system and pneumatic control device for such a system or the like. 3,685,789, 8-22-72, Cl. 251-61.200.

Putch, Samuel W.; and Hutchison, Carl R., to FMC Corporation. Underwater completion expanding tubing hanger. 3,661,206, 5-9-72, Cl. 166-85.

Putch, Samuel W., to FMC Corporation. Seat mechanism for through bore well heads. 3,679,238, 7-25-72, Cl. 285-144.000.

Puthet, Robert Raphael; deceased (by Gras, Daniel; legal representative). Process for the continuous hydrolysis of diorganodichlorosilanes. 3,646,093, 2-29-72, Cl. 260-448.2.

Putin, Enrico. Conveyor rollers. 3,685,636, 8-22-72, Cl. 198-127.000.

Putkowski, Ladislao (Wladyslaw). Hot runner system. 3,677,682, 7-18-72, Cl. 18-30.0rh.

Putman, Richard E., to Westinghouse Electric Corporation. Computer control system for refining and hydrogenation of unsatutated hydrocarbons. 3,653,842, 4-4-72, Cl. 23-253.

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Putnam, David T.; and Tatum, William C., to International Business Machines Corporation. Method for locating printed circuit work piece. 3,647,582, 3-7-72, Cl. 156-3.

Putnam, David T., to International Business Machines Corporation. Free particle impact machining process and apparatus employing the same. 3,675,373, 7-11-72, Cl. 51-9.000.

Putnam, John H., Jr.: *See—*
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Putnam, Monroe P. Reversible chair with a reversible cushion cover. 3,695,691, 10-3-72, Cl. 297-223.000.

Putnam, Robert C.; and Young, Jeffrey W., to Polaris Chemical Corporation. Flame proofing compositions. 3,676,389, 7-11-72, Cl. 260-29.4va.

Putscher, Johann: *See—*
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Wagner, Karl; Nicolay, Klaus; Schuchardt, Gerhard; and Putscher, Johann, 3,705,539.

Putscher, Johann; Gersch, Josef; Wiedemann, Otto; and Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Container for photographic film. 3,665,829, 5-30-72, Cl. 95-31.0ca.

Putscher, Johann, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus for use with impeller-actuated sources of artificial light. 3,705,538, 12-12-72, Cl. 95-11.50r.

Putt, Frank E., to Town & Country Cleaners Franchises, Inc. Carpet cleaning apparatus. 3,699,607, 10-24-72, Cl. 15-320.000.

Putt, James Basil, to Bendix Corporation, The. Master cylinder low fluid indicator. 3,678,490, 7-18-72, Cl. 340-244.00e.

Putt, James Basil, to Bendix Corporation, The. Shunt actuated fluid level sensor. 3,699,561, 10-17-72, Cl. 340-244.00e.

Putter, Irving, to Merck & Co., Inc. Selective deuteration of tyrosive, aspartic and glutamic acids. 3,699,158, 10-17-72, Cl. 260-519.000.

Putter, Lothar: *See—*
Mosch, Willi; Lutz, Gerhard; Putter, Lothar; Waldkotter, Erich; and Martin, Heinz, 3,702,954.

Putter, Rolf: *See—*
Schminke, Hans Dieter; Grigat, Ernst; and Putter, Rolf, 3,642,725.

Puttock, Eugene F.: *See—*
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Putz, Franz: *See—*
Thielen, Heinz; Grundmann, Harald; and Putz, Franz, 3,673,563.

Putz, Walter: *See—*
Schwab, Johann; and Putz, Walter, 3,635,445.

Putzer, Murray: *See—*
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Puxbaumer, Hans: *See—*
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Puyo, Andre: *See—*
Habib, Pierre; and Puyo, Andre, 3,672,658.

Puyo, Andre; and Habib, Pierre Andre, to Coyne et Bellier, Bureau d'Ingenieurs Conseils, mesne. Reinforcing and prestressing cable. 3,701,554, 10-31-72, Cl. 287-78.000.

Puyo, Andre Jean-Marie; and Habib, Pierre Andre, to Sherard, James L. Mechanical vibrator. 3,659,464, 5-2-72, Cl. 74-61.

Puzik, Otto V.: *See—*
De Vito, Angelo R.; and Puzik, Otto V., 3,664,697.

Puzik, Otto V., to Willow Hill Industries, Inc. Vehicle axle spindle. 3,701,564, 10-31-72, Cl. 301-131.000.

Puzov, Filimon Efimovich: *See—*

Khrenov, Konstantin Konstantinovich; Gursky, Pavel Ivanovich; Shulman, Grigory Alexandrovich; Klimenko, Gennady Alexeevich; Kirdo, Ivan Viktorovich; Dmitrenko, Georgy Viktorovich; Yagupov, Ivan Nikolaevich,; Tsyrlin, Mark Irmovich; Novikov, Anatoly Petrovih; and Puzov, Filimon Efimovich, 3,688,382.

Pwell, Edgar R., to Zimmerman, D. W., Mfg., Inc. Hoist hook control. 3,656,715, 4-18-72, Cl. 254-168.

Pyanov, Valentin Nikiforovich: *See—*
Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.

Pye, Donald George, to Du Pont de Nemours, E. I., and Company. Alumina coated chromium dioxide. 3,687,726, 8-29-72, Cl. 117-234.000.

Pye Limited: *See—*
Ayers, Peter John Henry, 3,681,669.
Bushman, John Andrew, 3,659,601.
Callendar, Max V.; and Cox, Victor J., 3,686,670.
Coussell, Ivan John; and Pattison, Roy, 3,689,843.
Joynes, Peter Leonard; and Maggs, Robert James, 3,706,381.
Kipling, Barry John, 3,695,263.
Lovelock, James E., 3,677,275.
Maclagan, Robert Gordon; and Griffiths, Geoffrey William, 3,684,830.
Nettleship, Robert, 3,683,112.
Wilkinson, Michael Burton, 3,658,422.

Pyke, Thomas R.: *See—*
Argoudelis, Alexander D.; Coats, John H.; and Pyke, Thomas R., 3,697,380.

Pylaikin, Petr Alexeevich: *See—*
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Pyle, Delbert E.: *See—*
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Pyle, Kenneth E., to Reef-Baker Corporation. Condensate valve. 3,682,194, 8-8-72, Cl. 137-204.000.

Pyle, Loren L.: *See—*
Jarvela, Gary N.; and Pyle, Loren L., 3,631,836.

Pyle-National Company, The: *See—*
Exner, William E., 3,691,512.

Pylon Company, Inc.: *See—*
Cooney, James S., 3,651,401.

Pym, Michael Aren, to Thrissell, Scott Engineering Limited. Electrostatic copying. 3,687,072, 8-29-72, Cl. 101-153.000.

Pynchon, George O.; and Hulse, James H., Jr. Plastic pipe gripping tool. 3,653,284, 4-4-72, Cl. 81-5.1.

Pyne, Anthony E.: *See—*
Pitzer, Dorman C.; Braddock, Walter B.; Swann, Richard C. G.; and Pyne, Anthony E., 3,649,888.

Pyne, William J.: *See—*
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Pyramid, Inc.: *See—*
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Smith, Thomas R., 3,698,111.

Pyrites Company, Inc., The: *See—*
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Pyro-Magnetics Corporation: *See—*
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Pyrofilm Corporation: *See—*
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Pyronics Inc.: *See—*
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Pyrotenax Limited: *See—*
Parker, Herbert William Mansfield, 3,697,671.

Pysnik, Joseph: *See—*
Prellwitz, Samuel B.; and Pysnik, Joseph, 3,635,082.

Pytlewski, Louis L., to Research Corporation. Soil retardant coating and method for forming the same. 3,676,186, 7-11-72, Cl. 117-69.000.

Pyzewski, Stanley J.: *See—*
Bowser, George H.; Shoop, Vernon A.; and Pyzewski, Stanley J., 3,657,900.
Bowser, George H.; Shoop, Vernon A.; Pyzewski, Stanley J.; Mazzoni, Renato J.; and Bologna, John P., 3,669,785.

Qatron Corporation: *See—*
White, Rowland K.; and Lindbeck, Simon L., 3,643,962.
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Qicsys Systems, Inc.: *See—*
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Qonaar Corporation: *See—*
Dominick, George G.; Sciacero, Rinaldo; Weber, Leonard J.; Wimpffen, George I.; and Kardos, Theodore Louis, 3,693,870.

Quaai, John A.; and Spellman, Gordon Bar, to Cutler-Hammer, Inc. Electromagnetic relay. 3,693,120, 9-19-72, Cl. 335-128.000.

Quaal, George J.: *See—*
Woerner, Lloyd M.; Kivela, William C.; and Quaal, George J., 3,634,116.

Quaal, George J., to Dow Corning Corporation. Lubricant compositions. 3,634,246, 1-11-72, Cl. 252-49.9.

Quaal, George J.; and Lewis, Alfred, to Dow Corning Corporation. Grease composition. 3,689,412, 9-5-72, Cl. 252-49.600.

Quaal, John A.: *See—*
Becker, Albert H.; Hart, Joseph M.; and Quaal, John A., 3,680,016.
Halbeck, Werner B.; Quaal, John A.; and Robbins, Clyde F., 3,706,100.
Halbeck, Werner B.; Quaal, John A.; Robbins, Clyde F.; Rutchik, Walter L.; and Ryczek, Lawrence J., 3,706,916.

Quack, Wilbert, to Halophane Company, Inc. Lighting fixture adapted to be mounted on a pole. 3,679,891, 7-25-72, Cl. 240-52.000.

Quackenbush, John J., to National Distillers and Chemical Corporation. Plastic bag flaring apparatus. 3,700,367, 10-24-72, Cl. 425-112.000.

Quackenbush, Nelson E.: *See—*
Smestad, Dale E.; and Quackenbush, Nelson E., 3,668,174.

Quadflieg, Therese: *See—*
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Quadri Corporation: *See—*
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Quaedvlieg, Mathieu: *See—*
Boehmke, Gunther; Hees, Walter; and Quaedvlieg, Mathieu, 3,682,584.
Tamer, Ergun; Hendricks, Udo; and Quaedvlieg, Mathieu, 3,685,951.
Walz, Klaus; Hees, Walter; and Quaedvlieg, Mathieu, 3,640,677.
Walz, Klaus,; Hees, Walter; and Quaedvlieg, Mathieu, 3,683,013.
Walz, Klaus; Baecker, Manfred; and Quaedvlieg, Mathieu, 3,684,427.

Quain, Wilbur C., to Lake Center Industries. Control regulator. 3,670,757, 6-20-72, Cl. 137-103.000.

Quaker Industries Inc.: *See—*
Block, Leonard A.; and Dunn, William J., 3,677,416.

Quaker Oats Company, The: *See—*
Brown, Lloyd H.; and Klemm, Laurence J., 3,645,942.
Brown, Lloyd H.; and Watson, David D., 3,681,286.
Brown, Lloyd H.; Dunlop, Andrew P.; and Eftax, Daniel S. P., 3,681,287.
Brown, Lloyd H.; Dunlop, Andrew P.; and Eftax, Daniel S. P., 3,681,420.
Brown, Lloyd H.; and Watson, David D., 3,689,299.
Brown, Lloyd H.; and Watson, David D., 3,702,771.
Harwood, Charles C.; and Holtz, William E., Jr., 3,675,855.
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Qualich, Amedeo, to Stromberg-Carlson Corporation. Method of making a plated wire memory using a sheet of film adhesive. 3,646,668, 3-7-72, Cl. 29-604.

Qualitrol Corporation: *See—*
Di Domenico, Italo, 3,656,078.
Romanowski, Robert F., 3,646,970.
Romanowski, Robert F.; and Cellini, Michael, 3,705,964.

Quam, Myron G.: *See—*
Wald, Milton M.; and Quam, Myron G., 3,706,817.

Quame, Babington A. Recovery of products from plantain wastes in Ghana. 3,649,292, 3-14-72, Cl. 99-4.

Quan, William: *See—*
Sanders, Ray W.; Keyes, Neil T.; and Quan, William, 3,665,405.
Sanders, Ray W.; Luce, David W.; and Quan, William, 3,705,986.

Quandt, Herbert C., to Union Carbide Corporation. Graphite crucibles for use in producing high quality quartz. 3,655,354, 4-11-72, Cl. 65-24.

Quant, Donald J., to Xerox Corporation. Toner dispenser circuit for electrostatographic apparatus. 3,693,581, 9-26-72, Cl. 118-7.000.

Quanta Welding Company: *See—*
Anderson, David G., 3,666,910.
Anderson, David G.; and Parker, John C., 3,666,912.
Anderson, David G., 3,676,636.
Anderson, David G., 3,676,637.

Quante, Hermann; Neumann, Peter; and Rose, Walter, to Quante, Wilhelm, Wuppertal-Elberfeld, Firma and Rose, Walter, K.G., Firma. Cable splice protector. 3,636,240, 1-18-72, Cl. 174-92.

Quante, Wilhelm, Wuppertal-Elberfeld, Firma: *See—*
Quante, Hermann; Neumann, Peter; and Rose, Walter, 3,636,240.

Quantic Industries, Inc.: *See—*
Knight, Sheldon; and McCarron, Kerwin Peter, 3,697,183.

Quantor Corporation: *See—*
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Quantronix Corporation: *See—*
Daly, Richard T.; and Kaplan, Robert A., 3,636,251.

Quantum, Inc.: *See—*
Doede, Clinton M.; and Combs, Eugene E., 3,669,719.

Quarenghi, Rodolfo, to American Machine & Foundry Company. Wet processing of tobacco stems. 3,690,328, 9-12-72, Cl. 131-140.00r.

Quario, Gian Luigi, to Ghisalba S.p.A. Mutually insulated bridging contacts for heavy currents. 3,694,605, 9-26-72, Cl. 200-166.00d.

Quarles, Richard W., Jr.: *See—*
Brizzolara, Donald F.; and Quarles, Richard W., Jr., 3,682,872.

Quarles, Richard W., Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing perfluoro 3-phenoxypropionic acid. 3,694,499, 9-26-72, Cl. 260-521.00a.

Quarmby, Robert C.: *See—*
Clarke, Terence J. L.; Quarmby, Robert C.; and Dennis, Kenneth, 3,662,788.
Matts, George A.; and Quarmby, Robert C., 3,705,609.

Quarmby, Robert Charles: *See—*
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Quartermus, George D.: *See—*
Thompson, Donald F.; Quartermus, George D.; and Quinn, Thomas M., 3,672,944.
Thompson, Donald F.; and Quartermus, George D., 3,695,923.

Quasar Microsystems, Inc.: *See—*
Baum, Elliot; and Loewengart, Harry R., 3,652,876.

Quase, Harold G., to Underwater Storage, Inc. Liquid separation apparatus. 3,656,623, 4-18-72, Cl. 210-242.

Quase, Harold G., to Underwater Storage, Inc. Storm sewage treatment. 3,674,687, 7-4-72, Cl. 210-86.000.

Quase, Harold Gerson, to Underwater Storage, Inc. Underwater storage system. 3,655,051, 4-11-72, Cl. 210-88.

Quase, Harold Gerson, to Underwater Storage, Inc. Collapsible floatable submergible and towable containers with resistant layers. 3,659,108, 4-25-72, Cl. 250-108.

Quassar Microsystems, Inc.: *See—*
Loewengart, Harry R., 3,681,914.

Quast, Gilbert W.: *See—*
Weiss, Gordon E.; Rank, John B.; and Quast, Gilbert W., 3,635,349.

Quatinetz Max; Weeton, John W.; and Herbell, Thomas P., to National Aeronautics and Space Administration. Refractory metal base alloy composites. 3,676,084, 7-11-72, Cl. 29-182.500.

Quatrano, John, to Bendix Corporation, The. Plate-type air valve carburetor. 3,695,592, 10-3-72, Cl. 261-50.00a.

Quattlebaum, Walter J.: *See—*
Young, William O., Jr.; and Quattlebaum, Walter J., 3,675,836.
Young, William O., Jr.; and Quattlebaum, Walter J., 3,676,251.
Young, William O., Jr.; and Quattlebaum, Walter J., 3,707,420.

Quattrini, Frank J. Aqueous reactive scale solvent. 3,660,287, 5-2-72, Cl. 252-8.55b.

Quattrini, Victor: *See—*
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Quay Dynamics Limited: *See—*
Harlow, Robert James, 3,645,122.

Quay, Roy G., to Petty Geophysical Engineering Company. Identification and classification of seismic reflection velocity properties on seismic reflection sections. 3,668,618, 6-6-72, Cl. 340-15.5ds.

Quay, Roy G., to Petty Geophysical Engineering Company. Methods for improved deconvolution of seismic or similar data. 3,705,382, 12-5-72, Cl. 340-15.5rr.

Quayle, Joshua Creer; Greatrix, Graham Roland; and Coombe, Ronald Alan, to National Research Development Corporation. Apparatus for the detection of mastitis in milk animals. 3,664,306, 5-23-72, Cl. 119-14.14.

Quayle, Joshua Creer; and Greatrix, Graham Roland. Apparatus for the detection of mastitis in milk animals. 3,695,230, 10-3-72, Cl. 119-14.140.

Quebec Cartier Mining Company: *See—*
Rochefort, Joseph J. F., 3,691,321.

Quebec North Shore Paper Company: *See—*
Hamilton, Douglas D.; and Boivin, Joseph J. R., 3,642,041.

Queen, Daniel L., to Chamberlain Manufacturing Corporation. Amplifying system with reduced feedback. 3,651,266, 3-21-72, Cl. 179-1.

Queen, Daniel L., to Chamberlain Manufacturing Corporation. Audio power amplifier. 3,657,734, 4-18-72, Cl. 330-15.

Queen, John C., Jr.: *See—*
Lipowski, Stanley A.; and Queen, John C., Jr., 3,703,563.

Queen, William T.: *See—*
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Queenan, James F.: *See—*
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Queener, Carl A.: *See—*
Dueltgen, Ray L.; and Queener, Carl A., 3,682,689.

Queener, Carl A., to International Business Machines Corporation. Copying system featuring combined developing-cleaning station alternately activated. 3,647,293, 3-7-72, Cl. 355-15.

Queensboro Marine Equipment Ltd.: *See—*
Kamachi, Shig K.; and Lancaster, Roy, 3,636,979.

Quemerais, Philippe: *See—*
Bouthors, Pierre; and Quemerais, Philippe, 3,690,192.

Quenneville, Raymond N., to United Aircraft Corporation. Drive released coil brake with a pump brake. 3,631,951, 1-4-72, Cl. 192-8.

Quenot, Andre, to Manufacture Quenot Mabo. Folding measuring instrument with improved linkage members. 3,673,692, 7-4-72, Cl. 33-118.000.

Quenot, Andre, to Manufacture "Quenot Mabo". Tape measures. 3,675,334, 7-11-72, Cl. 33-138.000.

Quenot, Andre. Linear extensible measuring instrument with telescopic members. 3,680,214, 8-1-72, Cl. 33-169.00r.

Quenouille, Georges Emile: *See—*
Neuville, Claude Marie Daniel; Quenouille, Georges Emile; Squarcioni, Andre; and Laurent, Jean-Joel Marcel Gustave, 3,662,366.

Quentin, Jean Pierre; and Ruaud, Michel, to Rhone-Poulenc S.A. Ion exchange copolymers and membranes made thereof. 3,644,225, 2-22-72, Cl. 260-2.1.

Quentin, Jean-Pierre; and Ruaud, Michel, to Rhone-Poulenc S.A. Coated electric conductor. 3,689,315, 9-5-72, Cl. 117-228.000.

Quenzler, Henry H. W.: *See—*
Kostroun, Vaclav; and Quenzler, Henry H. W., 3,645,479.

Querfeld, Hermann; Mattes, Heinz Otto; and Flesch, Friedrich, to Langensiepen, Max, Kom. Ges. Emmendingen. Wall facing. 3,640,043, 2-8-72, Cl. 52-508.

Querfurth, Eberhard: *See—*
Bringe, Wolfgang; Querfurth, Eberhard; Schanbacher, Hans-Albr.; Seiberth, Hans-Jurgen; and Vieser, Wolfgang, 3,662,304.

Quermann, Thomas R., to Sperry Rand Corporation. Protective stops for a flexure suspended gyroscopic rotor. 3,677,097, 7-18-72, Cl. 74-5.000.

Queron, Claude-Auguste, to Compagnie des Compteurs. Logical device for comparing the phase shift of an electrical magnitude to be checked in relation to a reference electrical magnitude. 3,634,762, 1-11-72, Cl. 324-83.

Querry, Lester Richard, to Bunker-Ramo Corporation, The. Pulse-characteristic modifying circuit. 3,652,944, 3-28-72, Cl. 328-168.

Querry, Robert C.: *See—*
Moran, John J.; and Querry, Robert C., 3,653,556.

Query, Grady W. Remote storage arrangement for dishwashing treating agent. 3,707,160, 12-26-72, Cl. 137-209.000.

Quesnel, Guy; and Feugere, Francis. Rotatable drum device. 3,701,487, 10-31-72, Cl. 241-178.000.

Quest Electronics Corporation: *See—*
Stevens, Alan F.; and Bergson, Arnold A., 3,697,973.

Quest, Karl; Heckmann, Werner; and Knabe, Uwe, to Holstein & Kappert, Maschinenfabrik Phonix GmbH. Bottle capping machine. 3,643,398, 2-22-72, Cl. 53-77.

Questa, Charles R.: *See—*
Trost, Joseph C.; Bock, Robert V.; Gerbstadt, Frederick H.; Graham, William J.; Miles, Wilson D.; and Questa, Charles R., 3,675,209.

Questor Corporation: *See—*
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Langieri, Michael, Jr.; and Watts, Lennox, 3,706,876.
Mette, Herbert B., 3,664,535.
Rousey, Donald L., 3,645,192.
Zmuda, Daniel A., 3,650,140.

Queval, Pierre J.; and Falconnet, Bernard L. M., to Serdex-Societe d'Etudes de Recherches de Diffusion et d'Exploitation. Anthranilic acid derivatives. 3,654,310, 4-4-72, Cl. 260-332.2.

Queyrel, Paul J.; and Koenig, Jerome O., to Mill Polishing Corporation. Process for improving surface finish on clad aluminum sheets. 3,651,604, 3-28-72, Cl. 51-317.

Quibel, Jacques: *See—*
Lhonore, Pierre; Quibel, Jacques; and Senes, Michel, 3,644,100.
Senes, Michel; Lhonore, Pierre; and Quibel, Jacques, 3,644,557.

Quichaud, Claude: *See—*
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Quick Cable Corporation: *See—*
Julian, Robert A., 3,694,798.
Shannon, John K., 3,695,336.

Quick, Carolyn M., to Shell Oil Company. Glycidamides for inducing a tranquilizer response. 3,646,211, 2-29-72, Cl. 424-278.

Quick, George R.: *See—*

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Quick, Graeme R., to Iowa State University Research Foundation. Combine cleaning blower. 3,664,349, 5-23-72, Cl. 130-27.
Quick, Graeme R.; and Buchele, Wesley F., to Iowa State University Research Foundation. Cutting knife assembly for a combine. 3,681,901, 8-8-72, Cl. 56-13.600.
Quick, Graeme R., to Iowa State University Research Foundation. Fruit and vegetable harvesting device. 3,704,576, 12-5-72, Cl. 56-330.000.
Quick, Irvin, to General Motors Corporation. Shaft coupling locking device and tool for installation thereof. 3,631,688, 1-4-72, Cl. 64-9.
Quick, Lester K. Refrigeration system oil separator. 3,633,377, 1-11-72, Cl. 62-192.
Quick, Lester K. Air cooled condenser arrangement. 3,645,107, 2-29-72, Cl. 62-183.
Quick, Lester K. Refrigeration system with hot gas defrosting. 3,645,109, 2-29-72, Cl. 62-196.
Quick Service Textiles, Inc.: *See—*
Miller, Samuel E., 3,648,632.
Miller, Samuel E., 3,663,963.
Miller, Samuel E., 3,680,509.
Miller, Samuel E., 3,703,730.
Quick-Cable Corporation: *See—*
Shannon, John K.; and Shannon, John K., Jr., 3,694,799.
Quickle, Charles F., Jr.: *See—*
Burwell, Wayne G.; and Quickle, Charles F., Jr., 3,694,770.
Quickmaid Rental Service Limited: *See—*
Proops, Sydney E., 3,656,145.
Quickmaid Vending Services Limited: *See—*
Galpin, Harold Henry, 3,651,466.
Quigg, Donald J.; and Short, James N., to Phillips Petroleum Company. Lactone-diene-vinyl aromatic terpolymer emulsions. 3,645,947, 2-29-72, Cl. 260-28.5.
Quigg, Donald J. Blade and anvil pinch-off with compression sealing means. 3,692,453, 9-19-72, Cl. 425-326.000.
Quigley Company, Inc.: *See—*
Dreyling, Alfred P.; and Dreyling, Lewis J., 3,656,977.
Quigley, Garnet H.: *See—*
Nightingale, Paul Leslie; and Quigley, Garnet H., 3,650,586.
Quigley, John A.: *See—*
Beddows, Norman A.; Quigley, John A.; and Wielt, Warren P., 3,675,058.
Quigley, Norman R.; and Hansen, Marvin E. Directional grain chutes. 3,675,752, 7-11-72, Cl. 192-5.000.
Quila, Werner: *See—*
Himmele, Walter; Quila, Werner; and Prinz, Richard, 3,661,980.
Quiles, Francisco K., to Phillips Petroleum Company. Dual-drum dryer. 3,678,598, 7-25-72, Cl. 34-128.000.
Quiles, Jean Pierre: *See—*
Chene, Marcel; Quiles, Jean Pierre; and Lafaye, Jean Francis, 3,657,066.
Quilez, Juan Jose Mas. Distributor for electric current. 3,651,443, 3-21-72, Cl. 339-20.
Quillet, Jean-Pierre: *See—*
Gerin, Paul; Louat, Lucien; and Quillet, Jean-Pierre, 3,699,215.
Quillier, Jean Georges, to Constructions Radioelectriques et Electroniques du Centre. Saw-tooth voltage wave generator including ramp voltage source controlled by dual stable state tunnel-diode switchable periodically by a gating circuit. 3,636,371, 1-18-7, Cl. 307-228.
Quillinan, John H.; and Mackey, Edward F., to General Electric Company. Muzzle flash detector. 3,699,341, 10-17-72, Cl. 250-83.30h.
Quilty, John. Fine-coarse drive mechanism. 3,662,614, 5-16-72, Cl. 74-393.
Quimby, George R.; and Gray, Kenneth R., to International Telephone and Telegraph Corporation. Copper electrodeposition electrolytes and method. 3,650,915, 3-21-72, Cl. 204-52.
Quindar Electronics, Inc.: *See—*
Epstein, Philip L., 3,681,696.
Quine, John P., to General Electric Company. Microstrip microwave oscillators. 3,680,002, 7-25-72, Cl. 331-96.000.
Quiney, Kenneth Maurice, to Girling Limited. Internal shoe drum brakes. 3,666,058, 5-30-72, Cl. 188-106.
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Quinlan, Joseph B., to United States of America, Army. Ammunition round. 3,688,698, 9-5-72, Cl. 102-38.000.
Quinlan, Joseph B.; and Van Artsdalen, Earl F., to United States of America, Army. High temperature-resistant waterproof caseless primer. 3,698,319, 10-17-72, Cl. 102-45.000.
Quinlan, Joseph B.; and Scanlon, John J., Jr., to United States of America, Army. Ammunition. 3,705,549, 12-12-72, Cl. 102-40.000.
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Quinlan, William J.; and Huver, Lawrence L. Detachable windshield wiper blade unit. 3,702,490, 11-14-72, Cl. 15-250.420.
Quinn, Bert A. Door closer. 3,665,549, 5-30-72, Cl. 16-52.000.
Quinn, Clayton E. Aquarium having built-in means to prevent cannibalism. 3,651,785, 3-28-72, Cl. 119-5.
Quinn, Daniel P. Collapsible barbecue apparatus. 3,648,679, 3-14-72, Cl. 126-25.
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Quinn, Edward J., to Hooker Chemical Corporation. Metalizing substrates. 3,655,531, 4-11-72, Cl. 204-30.
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Quinn, Edwin J., to Uniroyal, Inc. Difunctionally terminated polymers and method of their preparation. 3,668,243, 6-6-72, Cl. 260-535.
Quinn, Frederic R., to Zyrotron Industries, Inc. Rapidly acting condition responsive switch. 3,651,351, 3-21-72, Cl. 307-310.
Quinn, Governor V., to Three-Line Research and Developments Company, Inc. Training hurdle. 3,685,824, 8-22-72, Cl. 272-59.00c.
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Quinn, Halsey P., to Wagner Electric Corporation. Light-regulating power supply circuit for gaseous discharge lamp. 3,681,654, 8-1-72, Cl. 315-151.000.
Quinn, Halsey P., to Wagner Electric Corporation. Voltage and current regulated power supply circuit for gaseous discharge lamp. 3,689,827, 9-5-72, Cl. 323-20.000.
Quinn, Jack C., to Ticket Reservation Systems, Inc. Computer controlled vending system. 3,688,276, 8-29-72, Cl. 340-172.500.
Quinn, James A.; Owen, William J.; and Terpstra, Garry, to Singer Company, The. System for eliminating gyro on-off drift effect. 3,702,569, 11-14-72, Cl. 74-5.470.
Quinn, James L. Control for sump pump. 3,667,022, 5-30-72, Cl. 318-482.000.
Quinn, John N., 1/2 to Johnson Muller & Equipment Co., Inc. Crushing plant. 3,670,972, 6-20-72, Cl. 241-76.000.
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Quintana, Pedro. Dust removing attachment device for power grinders. 3,646,712, 3-7-72, Cl. 51-273.
Quintana, Ronald P.; Garson, Lorrin R.; and Lasslo, Andrew, to United States of America, Army. Straight chain aliphatic carboxylic acid monoesters of 1,3-dihydroxy-2-propanone. 3,668,226, 6-6-72, Cl. 260-410.600.

Quintilla, Juan Miquel. Pyridazone compounds and process for their production. 3,657,243, 4-18-72, Cl. 260-250.
Quintin, Albert Andre Joseph, to Compagnie des Metaux d'Overpelt-Lommel et de Corphalie. Refining of impure metals. 3,632,334, 1-4-72, Cl. 75-63.
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Quisling, Sverre. Clothes hanger clamp. 3,680,747, 8-1-72, Cl. 223-91.000.
Quisling, Sverre. Discovery in solution dispensers. 3,698,605, 10-17-72, Cl. 222-190.000.
Quist, Bernardus B.; and Smit, Jacobus A. J., to Shell Oil Company. Apparatus for the preparation of agglomerates. 3,643,929, 2-22-72, Cl. 259-9.
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Rabenhorst, David W.; and Darnell, Kenneth E., to United States of America, Navy. Rapid deployment corner reflector. 3,671,965, 6-20-72, Cl. 343-18.00c.
Rabenhorst, David W., to Johns Hopkins University, The. Filament rotor structures. 3,672,241, 6-27-72, Cl. 74-572.000.
Rabenhorst, David W., to Johns Hopkins University, The. Magnetic fluid bearing. 3,682,518, 8-8-72, Cl. 308-168.000.
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Rabilloud, Pierre; and Guichard, Jean-Claude, to Societe d'Aerodynamique et de Thermodynamique Francaise en abrege S.O.F.R.A.I.R. Dust-free work station with two crossed laminar flows. 3,686,836, 8-29-72, Cl. 55-467.000.
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Rabon, James L.; Biegler, Warren H.; and Kelly, Ramond E., to United States of America, Navy. Squib ejected marker buoy. 3,702,014, 11-7-72, Cl. 9-8.00r.
Rabouyt, Denis; and Marsot, Charles Louis. Framed impeller. 3,680,977, 8-1-72, Cl. 415-172.000.

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Rackson, Chester B. Hand held, finger controlled switch device with flexible wrist strap mount. 3,700,836, 10-24-72, Cl. 200-52.00r.
Rackus, John J.; Skilbeck, John P.; and Szkudlapski, Alfons H., to Western Electric Company, Incorporated. Process for supporting and nonuniformly treating articles. 3,692,638, 9-19-72, Cl. 204-15.000.
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Radig, Gary A., to Cooking Testing Co. Rotary ball valve for wells. 3,667,505, 6-6-72, Cl. 137-630.140.

Radig, Gary A.; Rowell, Cliva A., Jr.; and Edwards, Harvey R., to Cook Testing Co. Running-in tool forells. 3,698,477, 10-17-72, Cl. 166-214.000.

Radimer, Kenneth J.; and Munday, Theodore F., to FMC Corporation. Stabilization of hydrogen perioxide with ethylenediamine tetra (methylenephosphonic acid). 3,701,825, 10-31-72, Cl. 423-273.000.

Radimirsch, Karl; and Schwarz, Dietrich, to Dornier System G.m.b.H. Progressively-acting shock absorber element. 3,682,463, 8-8-72, Cl. 267-63.000.

Radin, Bernard G.: *See—*
Fitzsimons, William D.; and Radin, Bernard G., 3,647,016.

Radin, Bernard G., to Ford Motor Company. Low liquid level indicator. 3,641,544, 2-8-72, Cl. 340-244.

Radin, Bernard G., to Ford Motor Company. Low liquid level indicator. 3,644,885, 2-22-72, Cl. 340-59.

Radin, Bernard G.; and Vanderberg, Lawrence J., to Ford Motor Company. Low liquid level indicator. 3,668,630, 6-6-72, Cl. 340-59.000.

Radin, William: *See—*
Hartling, Donald C.; Joseph, Hawthorne; and Radin, William, 3,698,125.

Radioear Corporation: *See—*
Schwake, William O., 3,668,334.

Radiometer A/S: *See—*
Kisten, Jurgen Manfred, 3,676,319.
Mikkelsen, Stig Glerup; Ring, Peter; and Stranddorf, Soren Peter Weis, 3,654,445.

Radke, Arthur O., to Universal Oil Products Company. Vehicle seat having an improved seat cover attachment system. 3,632,164, 1-4-72, Cl. 297-219.

Radke, Arthur O. Slide rail assembly for a vehicle seat. 3,692,272, 9-19-72, Cl. 248-429.000.

Radke, Arthur O.; Hall, Garth O.; and Tengler, Harvey N., to Universal Oil Products Company. Slide rail assembly. 3,702,179, 11-7-72, Cl. 248-430.000.

Radke, Donald G., to Allied Chemical Corporation. Pressure relief panels for gas bag equipped vehicles. 3,694,003, 9-26-72, Cl. 280-150.0ab.

Radke, Lawrence F.; and Hobbs, Peter V., to Battelle Development Corporation. Automatic cloud condensation nuclei counter. 3,671,128, 6-20-72, Cl. 356-37.000.

Radke, Lee, Associates, Inc.: *See—*
Pringle, William L., 3,655,273.

Radl, Heldemar, to Agfa-Gevaert Aktiengesellschaft. Cinematographic apparatus. 3,672,755, 6-27-72, Cl. 352-194.000.

Radlinsky, Raymond: *See—*
Burton, Paul T.; Cole, Walter E.; Frassetto, Henry E., Jr.; Gibson, Robert G.; Greenberg, Allan; Handloff, Louis E.; and Radlinsky, Raymond, 3,673,575.

Radlmann, Eduard; Ruetz, Lothar; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Polyester amide elastomers containing polyether units. 3,660,356, 5-2-72, Cl. 260-75.

Radlmann, Eduard; Kohler, Armin; Konig, Klaus; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane elastomers and a process for the production thereof. 3,682,861, 8-8-72, Cl. 260-47.0cb.

Radloff, Harry L.: *See—*
Seiferth, Oscar E.; Goller, Robert L.; Grindrod, Paul E.; and Radloff, Harry L., 3,647,485.

Radlove, Sol B. Dietary dry cake mix. 3,658,553, 4-25-72, Cl. 99-94.

Radner, Raymond John: *See—*
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Radnich, Spencer I.; Davelman, Samuel; Symonds, Paul S.; and Taylor, Willis H., to United States of America, Army. Base ejecting ordance projectile. 3,665,857, 5-30-72, Cl. 102-1.00r.

Radnik, Joseph L.; Hahn, Edward E.; and Ridenour, Wayne F.; deceased (by Ridenour, Helen L.; executrix), said Radnik, said Hahn assor. to Gruen Industries, Inc. Electro-mechanical drive mechanism for watches and related devices. 3,657,875, 4-25-72, Cl. 58-3.00d.

Rado, Antonio; and Tognazza, Bruno, to Gebrueder Buehler AG. Method for treating maize seeds. 3,632,051, 1-4-72, Cl. 241-8.

Rado, John A.: *See—*
Berwin, Ted W.; and Rado, John A., 3,643,106.

Rado, Julius: *See—*
Frey, Stuart M.; Gebhard, Harold C.; and Rado, Julius, 3,659,381.

Rado, Ramesh P., to Fiberglas Canada Limited. Method for insolubilizing sodium silicate foam. 3,663,249, 5-16-72, Cl. 106-75.000.

Radobenko, William, to Automated Equipments Corporation. Die bonder apparatus. 3,695,501, 10-3-72, Cl. 228-3.000.

Radoff, Steven: *See—*
Varadi, Andrew G.; Rubinstein, Richard B.; and Radoff, Steven, 3,691,534.

Radoi, William J.: *See—*
Malchman, Franklin L.; and Radoi, William J., 3,686,634.

Radomski, Joseph E.: *See—*
Thompson, Gene C.; Radomski, Joseph E.; and Wilson, David E., 3,680,220.

Radosavljevic, Svetislav M.; and Maniotes, John. Slide rule. 3,670,958, 6-20-72, Cl. 235-70.00a.

Radoux, Henri Joseph: *See—*
Mahr, Rene N.; Radoux, Henri Joseph; and Burton, Clement E., 3,662,696.

Radovsky, David A.: *See—*
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Radscheit, Kurt: *See—*
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Fritsch, Werner; Stache, Ulrich; Haede, Werner; and Radscheit, Kurt, 3,639,393.
Haede, Werner; Stache, Ulrich; Fritsch, Werner; and Radscheit, Kurt, 3,639,388.
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Stache, Ulrich; Haede, Werner; Fritsch, Werner; Radscheit, Kurt; and Schroder, Hans-Georg, 3,663,579.
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Radscheit, Kurt; Stache, Ulrich; Haede, Werner; Fritsch, Werner; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Cardio-active oxido-bufadienolides. 3,641,009, 2-8-72, Cl. 260-239.57.

Radscheit, Kurt; Fritsch, Werner; Haede, Werner; and Stache, Ulrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of 3β hydroxy-5β-cardenolides. 3,657,228, 4-18-72, Cl. 260-239.57.

Radscheit, Kurt; Fritsch, Werner; Haede, Werner; Stache, Ulrich; and Schroder, Hans-Georg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. (Tetrahalocyclobutyl carboxylic acid) steroid esters. 3,657,434, 4-18-72, Cl. 424-241.

Radscheit, Kurt; Kelkheim, Taunus; Stache, Ulrich; Haede, Werner; Hofheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Certain cardioactive oxido-bufadienolides. ,681,344, 8-1-72, Cl. 260-239.570.

Radscheit, Kurt; Kelkheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; Haede, Werner; Stache, Ulrich; Hofheim, Taunus; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method of making carbenolide-3-oxy-esters o an hydroxy acid. 3,682,891, 8-8-72, Cl. 260-239.570.

Radscheit, Kurt; Stache, Ulrich; Fritsch, Werner; and Waede, Werner. Process for the manufacture of Δ^{14}-20-keto-21-dialkoxy steroids. 3,682,987, 8-8-72, Cl. 260-397.470.

Radsky, Alexey P.: *See—*
Ammerman, Harvey F.; and Radsky, Alexey P., 3,666,265.

Radtke, Carl W., to Ickes-Braun Glasshouses, Inc. Mobile outdoor display unit. 3,692,350, 9-19-72, Cl. 296-21.000.

Radtke, Herbert W. Humidifer. 3,664,324, 5-23-72, Cl. 126-113.

Radtke, Schrade F., to International Lead Zinc Research Organization, Inc. Process for preparing dialkylzinc compounds from alkylbromide and alkyliodide. 3,641,080, 2-8-72, Cl. 260-429.9.

Radtke, Schrade F., to International Lead Zinc Research Organization, Inc. Process for preparing dialkylzinc compounds from alkylbromide. 3,641,081, 2-8-72, Cl. 260-429.9.

Radune, Karl F., to Textron, Inc. Method and apparatus for making an antifriction bearing retainer. 3,696,485, 10-10-72, Cl. 29-148.40c.

Radutsky, Grigory Avramovich: *See—*
Dichinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosilfovich; Anikanov, Nikolai Ivanovich; Grachev, Leonid Pavlovich; and Frumkin, Mikhail Evseevich, 3,702,186.
Duckhinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosifovich; Anikanov, Nikolai Ivanovich; and Grachev, Leonid Palovich, 3,683,586.

Rady-Pentek, Arthur A.: *See—*
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Raeber, Victor, to Ateliers de Constructions Mecaniques de Vevey S.A. Control installation for a hydro-electric power station. 3,651,331, 3-21-72, Cl. 307-84.

Raech, Harry, Jr., to FMC Corporation. Process for preparation of missiles 3,637,449, 1-25-72, Cl. 156-305.

Raes, Andre, to Glaverbel S.A. Handling device. 3,695,459, 10-3-72, Cl. 214-1.00q.

Raes, Maurice C.: *See—*
Early, Robert M.; and Raes, Maurice C., 3,674,718.
Raether, Siegfried, to Kalle Aktiengesellschaft. Process for the preparation of an aluminum support for presensitized planographic printing plates. 3,664,934, 5-23-72, Cl. 204-58.
Raether, Wolfgang: *See—*
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Raettig, Hansjurgen, to Schering A.G. Orally administrable polyvalent vaccines for intestinal infections. 3,651,214, 3-21-72, Cl. 424-92.
Raetz, James R.: *See—*
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Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, to PPG Industries, Inc. Method and apparatus having multiple-tiered mercury cathode electrolysis cells. 3,650,919, 3-21-72, Cl. 204-99.
Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, to PPG Industries, Inc. Alkali chlorine cell. 3,650,939, 3-21-72, Cl. 204-219.
Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, to PPG Industries, Inc. Bipolar electrolysis cells with mercury cathode and having novel amalgram splitting vessel. 3,657,098, 4-18-72, Cl. 204-219.
Raetzsch, Carl W.; and Cunningham, Hugh, to PPG Industries, Inc. Electrolyzer. 3,677,927, 7-18-72, Cl. 204-258.000.
Raetzsch, Carl W., to PPG Industries, Inc. Electrolytic cell. 3,684,670, 8-15-72, Cl. 204-95.000.
Raevsky, Georgy Vladimirovich: *See—*
Dyskin, Ernest Matveevich; Raevsky, Georgy Vladimirovich; Biletsky, Semen Mikhailovich; Burmenko, Eduard Jurievich; Grosman, Erikh Ruvimovich; Satanovsky, Abram Lazarevich; Kremnev, Oleg Alexandrovich; Zhuravlenko, Viktor Yakovlevich; and Protsyshin, BorisNikolaevich, 3,687,434.
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Rafalski, Michael J., Jr.; and Celmer, Blase G. Band clamp with service outlet. 3,635,503, 1-18-72, Cl. 285-197.
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Raff, Paul: *See—*
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Reuther, Wolfgang; Petersen, Harro; Raff, Paul; and Pommer, Ernst-Heinrich, 3,657,412.
Raffaeli, Corrado; and Somigli, Guiliana. Sound playback device with improved coil spring pick-up arm. 3,668,343, 6-6-72, Cl. 200-52.00r.
Raffaelli, Milo L., Sr.: *See—*
Scholl, Carl W.; and Raffaelli, Milo L., Sr., 3,655,477.
Scholl, Carl W.; and Raffaelli, Milo L., Sr., 3,701,707.
Raffali, Andre. Musical instruments, especially of the percussion type. 3,699,835, 10-24-72, Cl. 84-236.000.
Raffel, Marvin J. Massaging chair. 3,653,375, 4-4-72, Cl. 128-33.
Raffeli, Corrado; and Somigli, Guiliana. Device for controllably causing dolls eyes and tongues to move and electronic control for said device. 3,660,932, 5-9-72, Cl. 46-235.
Raffensperger, Stanley P.: *See—*
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Rafferty, Edson Howard; and Kletschka, Harold D. Electrically-driven pumps capable of use as heart pumps. 3,647,324, 3-7-72, Cl. 417-420.
Rafferty, John E. Rescue device for linemen. 3,647,171, 3-7-72, Cl. 248-221.
Rafferty, John W.: *See—*
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Ragan, Brad, Inc.: *See—*
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Ragan, Lawrence H.; and Pratt, Charles R., to Collins Radio Company. Planar R. F. load resistor for microstrip or stripline. 3,678,417, 7-18-72, Cl. 333-22.00r.
Ragard, Phillip A., to Universal Instruments Corporation. Lead cut and clinch mechanism. 3,646,659, 3-7-72, Cl. 29-203.
Ragard, Phillip A., to Universal Instruments Corporation. Rotary positioner. 3,696,713, 10-10-72, Cl. 92-121.000.
Ragault, Michel A. Heating cable with cold outlets. 3,657,520, 4-18-72, Cl. 219-553.
Ragazzini, Mario: *See—*
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Ragazzini, Mario; Caimi, Alberto; Carcano, Donato; and Groppelli, Giovanni, to Montecatini Edison S.p.A. Process for concentrating aqueous emulsions of fluorinated polymers. 3,668,167, 6-6-72, Cl. 260-29.60f.
Ragen, Robert A., to Singer Company, The. Electronic desk top calculator having a delay line and automatic decimal alignment. 3,634,666, 1-11-72, Cl. 235-156.
Ragen, Robert A., to Singer Company, The mesne. Serial adder/subtracter utilizing counters. 3,676,658, 7-11-72, Cl. 235-176.000.
Ragen, Robert A.; Herendeen, Carl E.; and Wood, Gary R., to Singer Company, The. Zero suppression circuit. 3,678,471, 7-18-72, Cl. 340-172.500.
Ragep, Gazie K.: *See—*
Jayne, Clarence V.; Ragep, Gazie K.; and Templeton, James D., 3,702,260.
Rager, Donald D.; Heflin, Robert L.; and Wilcox, Dana V., to Reynolds Metals Company. Apparatus for and method of joining stranded cable. 3,634,649, 1-11-72, Cl. 219-137.
Ragettli, Christian, to Van Leer (U.K.) Limited. Sheet metal container. 3,690,504, 9-12-72, Cl. 220-42.00c.
Raggi, Lodovico, to Associated Engineering Limited. Variable camshaft mechanism. 3,633,555, 1-11-72, Cl. 123-90.17.
Ragi, Elias George, to Union Carbide Corporation. Composite structure for boiling liquids and its formation. 3,684,007, 8-15-72, Cl. 165-133.000.
Ragland, Douglas, to Texas Inventment Builders Co. Air diffuser. 3,673,946, 7-4-72, Cl. 98-40.00d.
Ragland, Douglas, to Ragland Manufacturing and Construction Company. Door frame assembly. 3,676,966, 7-18-72, Cl. 52-211.000.
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Ragland, Frank Roweland, Jr., to RCA Corporation. Method for making a light intensity correction filter. 3,676,129, 7-11-72, Cl. 96-38.300.
Ragland, Frank Rowland, Jr., to RCA Corporation. Method of assembling and mounting an aperture mask in a mask-panel assembly of a cathode-ray tube using a full surface spacer. 3,701,193, 10-31-72, Cl. 29-25.150.
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Ragni, Luigi, to Oxford Electric Corporation. Magnetic switch apparatus. 3,691,490, 9-12-72, Cl. 335-205.000.
Ragot, Jean-Calude: *See—*
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Ragsdale, Harold E., to Bechtel International Corporation. Method and apparatus for pumping slugs of coal slurry without passing slurry through the pumping station. 3,678,950, 7-25-72, Cl. 137-1.000.
Ragsdale, Robert G.; and Payne, Paul E., to Milgo Electronic Corporation. Differential phase modulator and demodulator utilizing relative phase differences at the center of the modulation periods. 3,643,023, 2-15-72, Cl. 178-67.
Ragsdale, Robert Gordon, to Milgo Electronic Corporation, mesne. Data modem having phase, frequency and amplitude distortion compensating means. 3,644,830, 2-22-72, Cl. 325-42.
Ragualt, Beatrice. Immersion heater element. 3,674,985, 7-4-72, Cl. 219-523.000.
Raguse, Roger C., to Scholl Mfg. Co., Inc., The. Pressure sensitive adhesive mass. 3,660,323, 5-2-72, Cl. 260-5.
Rahaim, Thomas J.; and Mierley, George M., Sr., to Westinghouse Electric Corporation. Segmented seal assembly. 3,656,862, 4-18-72, Cl. 415-171.
Rahaim, Thomas J.; and Mierley, George M., Sr., to Westinghouse Electric Corporation. Azial flow turbing structure. 3,689,174, 9-5-72, Cl. 415-115.000.
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Rahenkamp, Robert A.; and Stewart, William R., Jr., to International Business Machines Corporation. Sentence oriented dictation system featuring random accessing of dictation segments. 3,671,683, 6-20-72, Cl. 179-100.2md.

Rahman, Abdul R.; and Schafer, Glenn R., to United States of America, Army. Directly edible, compacted and dehydrated fruit bar. 3,705,814, 12-12-72, Cl. 99-204.000.
Rahn, Hilton N., Jr.: *See—*
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Rahn, Horst, to Kienzle Apparate G.m.b.H. Housing arrangement for an apparatus transforming rotary speed into electric signals. 3,679,922, 7-25-72, Cl. 310-89.000.
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Rai, Charanjit: *See—*
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Raible, Karl J., to Aktiengesellschaft fur Brauerei-Industrie. Adsorbent for beverages. 3,676,367, 7-11-72, Cl. 252-451.000.
Raichel, Daniel; and De Vries, Chris G., to Dathar Corporation. Stereo speaker system. 3,637,039, 1-25-72, Cl. 181-31.
Raickle, John A., to Industrial Micronics Incorporated. Lapping machine and method. 3,653,160, 4-4-72, Cl. 51-109.
Raidel, John E., to Ridewell Corporation. Multiple joint tandem suspension. 3,632,128, 1-4-72, Cl. 280-104.5.
Raidl, John H. Precise safety device. 3,685,686, 8-22-72, Cl. 220-89.00a.
Raiff, Lawrence C.: *See—*
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Raimondi, Vito O.; and Raimondi, William V., to Beatrice Caramel Apple Co., Inc. Coated apple confection making machine. 3,660,118, 5-2-72, Cl. 99-450.7.
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Rainal, Attilio Joseph, to Bell Telephone Laboratories, Incorporated. Apparatus for measuring low level power. 3,699,450, 10-17-72, Cl. 325-363.000.
Rainaldi, Nicolino; and Fatutto, Pierluigi, to Montecatini Edison S.p.A. Flame-extinguishing substance comprising 1,2-dibromo-hexafluoropropane. 3,656,553, 4-18-72, Cl. 169-1.
Rainaldi, Nicolino; and Fatutto, Pierlugi. Foam-forming flame-extinguishing compositions containing alkylpolyalkoxysulfates, polyoxylthylene resins and symmetrical debromotetrafluoroethane. 3,684,018, 8-15-72, Cl. 169-1.00a.
Rainbird, Herbert A.; and Gordon, William E., to National Distillers and Chemical Corporation. System for mixing gases and sparger valve for accomplishing same. 3,661,165, 5-9-72, Cl. 137-100.
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Rainer, Erich; and Kroger, Gerhard, to Siemens Aktiengesellschaft. Brushless stepping motor. 3,652,909, 3-28-72, Cl. 318-254.
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Ralston, Paul Hotchkiss, to Calgon Corporation. Inhibiting scale deposition. 3,663,448, 5-16-72, Cl. 252-180.000.
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Ram, Michael J.; and Riggs, John P., to Celanese Corporation. Process for the production of acrylic filaments. 3,657,409, 4-18-72, Cl. 264-182.
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Ram, Michael J., to Celanese Corporation. Lateral positioning of moving fibrous materials. 3,705,675, 12-12-72, Cl. 226-3.000.
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Schneider, Marvin, 3,685,620.
Rapisarda, Anthony A.: *See—*
Rudy, Jerome; and Rapisarda, Anthony A., 3,650,816.
Rapisarda, Carmelo, to Du Pont de Nemours, E. I., and Company. Galvanic detection of oxygen in a spinning cell steam chamber. 3,672,800, 6-27-72, Cl. 425-71.000.
Rapistan Incorporated: *See—*
Bildsoe, Jorgen S., 3,665,864.
Dahlquist, Ernst A.; Polakoqski, Stanley J.; and Vaalburg, Teunis, 3,698,423.
Krammer, Robert, 3,666,050.
Sullivan, Norman M., 3,695,462.
Rapkl, Virginia L.: *See—*
Mesek, Frederick K.; and Rapkl, Virginia L., 3,683,916.
Rapko, John N., to Monsanto Company. Maleic/acrylic/alkenyl phosphonate terpolymers. 3,684,779, 8-15-72, Cl. 260-78.50r.
Rapoport, Lev Moiseevich: *See—*
Mikhailov, Nikolai Petrovich; Rapoport, Lev Moiseevich; and Taits, Samuil Zalmanovich, 3,698,235.
Rapoza, Edward J.: *See—*
Siegel, Maxwell E.; Rapoza, Edward J.; and Chevalaz, Roger A., 3,634,651.
Rapoza, Edward J.; Siegel, Maxwell E.; Estelle, Weems E.; Petrucci, Pasquale M.; Linarducci, Joseph S.; Hamma, John; and Montgomery, John, to Becton, Dickinson and Company. Blood test system. 3,706,499, 12-19-72, Cl. 356-184.000.
Rapp, Adolph Karl; and Bharali, Utpalananda, to RCA Corporation. Multiple-phase logic circuits. 3,706,889, 12-19-72, Cl. 307-205.000.
Rapp, Charles F.: *See—*
Lee, Haynes A., Jr.; and Rapp, Charles F., 3,640,890.
Lee, Haynes A., Jr.; and Rapp, Charles F., 3,640,891.
Lee, Haynes A., Jr.; and Rapp, Charles F., 3,663,474.
Rapp Fabrikker A/S: *See—*
Halvorsen, Jacob Schoning, 3,687,418.
Rapp, Fredric Thomas. Running doll or the like. 3,665,644, 5-30-72, Cl. 46-245.000.

Rapp, James E.: *See—*
Busdiecker, Robert A.; Rapp, James E.; and Babcock, Clarence L., 3,661,546.

Rapp, Richard K. Prosthetic heart valve. 3,689,942, 9-12-72, Cl. 3-1.000.

Rapp, Robert Anthony, to Ohio State University, The. Devices for the control of agents in fluids. 3,699,032, 10-17-72, Cl. 204-195.00s.

Rapp, Theodore Clyde, to Du Pont de Nemours, E. I., and Company. Emulsions of water in halogenated solvents which contain fluorinated oil and water repellents. 3,668,163, 6-6-72, Cl. 260-28.50d.

Rappen, Ludwig: *See—*
Maurer, Manfred; Orth, Winfried; and Rappen, Ludwig, 3,632,807.

Rappold, Hermann, & Co. GmbH: *See—*
Uerlichs, Johannes; and Muller, Rudolf, 3,695,286.

Rapport, Jerry; and Frymire, Garold D., to Travel Trim & Vent Co. Escape hatch. 3,676,954, 7-18-72, Cl. 49-141.000.

Rapsilber, William E.; and Koenig, Richard G., to McDonnell Douglas Corporation. Coordinate conversion calculator. 3,639,989, 2-8-72, Cl. 33-1.

Rapson, William H., to Electric Reduction Company of Canada, Ltd. Digestion and bleaching wood pulp followed by recovery of chemicals and countercurrent flow of wash water. 3,698,995, 10-17-72, Cl. 162-19.000.

Raquin, Roger: *See—*
Largeron, Louis; and Raquin, Roger, 3,678,548.

Rardin, Robert W., to Union Oil Company of California. Well for transporting hot fluids through a permafrost zone. 3,703,929, 11-28-72, Cl. 166-302.000.

Rarog, Walter. Tubless tire repair tool. 3,631,746, 1-4-72, Cl. 81-15.7.

Rasch, Arthur A., to Eastman Kodak Company. Photographic diffusion transfer product and process. 3,647,440, 3-7-72, Cl. 96-29.

Rasch, Eugen, to Erdolchemie Gesellschaft mit beschrankter Haftungs. Arrangement for coding given pathlengths in outgoing electrical signals. 3,688,304, 8-29-72, Cl. 340-347.00p.

Rasch, Leroy L., to Stewart-Warner Corporation. Engine starting aid. 3,661,133, 5-9-72, Cl. 123-180.

Raschdorf, Richard. Garment bag. 3,704,778, 12-5-72, Cl. 206-7.000.

Raschka, Walter R.: *See—*
Hahn, Burkhard J.; Reise, Rolf M. E.; and Raschka, Walter R., 3,642,455.

Raschke, Herbert A., to Bullard, E. D., Company. Connector for hand tool suspension system. 3,640,555, 2-8-72, Cl. 287-103.

Raschke, Herbert A., to Bullard, E. D., Company. Apparatus for mounting a face shield onto a rigid hat. 3,685,054, 8-22-72, Cl. 2-10.000.

Raschke, Herbert A., to Bullard, E. D., Company. Hood with improved air inlet. 3,685,512, 8-22-72, Cl. 128-142.700.

Raschle, Josef, to Moulinage et Retorderie de Chavanoz. Magnetic false twist spindle. 3,638,413, 2-1-72, Cl. 57-77.45.

Raschle, Josef, to Moulinage et Retorderie de Chavanoz, mesne. Magnetic false twist spindle. 3,673,782, 7-4-72, Cl. 57-77.450.

Raser, William H. Graph-reading digital converter. 3,696,397, 10-3-72, Cl. 340-347.0ad.

Rash, James T., to Mouldings, Inc. Dryer conveyor means. 3,650,377, 3-21-72, Cl. 198-190.

Rashidov, Faizulla Karimovich: *See—*
Akhmedov, Rustam Berovich; Talibdzhanov, Zakhidzhan Sadykdzhanovich; Valikhodzhaev, Asomkhodzha; and Rashidov, Faizulla Karimovich, 3,664,587.

Rashkin, Allyn S., to GAF Corporation. Apparatus for detecting, quantizing and displaying the position of registration mark on a sheet. 3,658,430, 4-25-72, Cl. 356-172.

Raskin, Archie, to Componentry Research and Development Enterprise, Inc. Office machine anti-theft locking apparatus. 3,664,616, 5-23-72, Cl. 248-25.000.

Raskin, Jerome S. Communication system having means for causing a distress signal. 3,668,526, 6-6-72, Cl. 325-64.000.

Raskin, Seymour H., to Sands Measurement Corporation. Fluid characteristic sensing device. 3,638,487, 2-1-72, Cl. 73-194.

Rasmussen, Carl Georg, to Disa Elektronik A/S (Dansk Industri Syndikat A/S). Electrical flow measuring probe. 3,645,132, 2-29-72, Cl. 73-189.

Rasmussen, Dimite J.; and Roth, Peter H., to Polaroid Corporation. Color diffusion transfer film units comprising a layer which contains a synthetic polymer-benzenoid silver halide developing agent complex and process for their use. 3,707,370, 12-26-72, I. 96-3.000.

Rasmussen, Donald W., to Edoco Technical Products, Inc. Method and apparatus for insertion of joint material in plastic concrete. 3,648,575, 3-14-72, Cl. 94-39.

Rasmussen, Donald W., to Edoco Technical Products, Inc. Concrete consolidating and smoothing means for inserter apparatus. 3,665,820, 5-30-72, Cl. 94-39.000.

Rasmussen, Harry R. Transfer switch package assembly. 3,639,716, 2-1-72, Cl. 200-168.

Rasmussen, Henning B.: *See—*
Moller, Torben Torsbjerg; Nedenskov, Poul; and Rasmussen, Henning B., 3,635,949.

Rasmussen, Lester M. Cup holder for automobiles. 3,707,272, 12-26-72, Cl. 248-311.000.

Rasmussen, Ole-Bendt. Apparatus for producing filamentary or sheet-like material of plural components. 3,632,282, 1-4-72, Cl. 18-13.

Rasmussen, Ole-Bendt. Process for combing the opposite sides of a sandwich-like tubular polymeric sheet. 3,632,711, 1-4-72, Cl. 264-70.

Rasmussen, Ole-Bendt. Process for producing composite filaments. 3,651,195, 3-21-72, Cl. 264-171.

Rasmussen, Ole-Bendt. Method for the production of synthetic sheet materials. 3,673,291, 6-27-72, Cl. 264-46.000.

Rasmussen, Ole-Bendt. Extruded sheet material. 3,677,873, 7-18-72, Cl. 161-109.000.

Rasmussen, Ole-Bendt; Madsen, Willy Buch; and Nielsen, Arne E. Apparatus for the rolling or twisting of yarn or ribbon-like structures about their longitudinal axis. 3,686,853, 8-29-72, Cl. 57-77.420.

Rasmussen, Ole-Bendt. Filamentary or sheet-like material of polymeric substances and method and apparatus for producing said material. 3,690,982, 9-12-72, Cl. 156-148.000.

Rasmussen, Oystein E. Method for preventing fouling of ships, particularly ships having substantially vertical side surfaces. 3,650,924, 3-21-72, Cl. 204-147.

Rasmussen, Paul, to Grumman Aerospace Corporation. High pressure forming press. 3,681,958, 8-8-72, Cl. 72-57.000.

Rasmussen, Peter D.: *See—*
Buckley, Norman A.; and Rasmussen, Peter D., 3,638,842.

Rasmussen, Reed. Camper loading and unloading device. 3,695,472, 10-3-72, Cl. 214-517.000.

Rasmussen, Robert F., to Roseville Engineering, Inc., mesne. Pump. 3,666,382, 5-30-72, Cl. 417-533.000.

Rasmussen, Thomas J.: *See—*
Morton, Henry Clifford; and Rasmussen, Thomas J., 3,655,603.

Rasmussen, Tom: *See—*
Arntson, Gary L.; and Rasmussen, Tom, 3,703,106.

Rasmussen, Torben Borup, to Kroyer, Karl Kristian Kobs. Method for the production of fibrous sheet materials. 3,669,778, 6-13-72, Cl. 156-62.200.

Rasmusson, Gary H.: *See—*
Arth, Glen E.; and Rasmusson, Gary H., 3,673,180.
Arth, Glen E.; and Rasmusson, Gary H., 3,679,717.

Rasoira, Michelangelo, to Olivetti, Ing. C., & C., S.p.A. Machine Ing., having a rotary worktable. 3,667,305, 6-6-72, Cl. 74-818.000.

Raspante, Anthony, to Packaging Industries, Inc. Extruder head. 3,690,798, 9-12-72, Cl. 425-167.000.

Raspanti, Giuseppe: *See—*
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Raspers, Helmut: *See—*
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Rasquin, John R.; and Estes, Marvin F., to United States of America, National Aeronautics and Space Administration. Apparatus for making diamonds. 3,632,242, 1-4-72, Cl. 425-77.

Rasquin, John R., to United States of America, National Aeronautics and Space Administration. High temperature furnace for melting materials in space. 3,647,924, 3-7-72, Cl. 13-20.

Rassart, Nestor Sylvain, to Chemcell Limited. Hairy lustrous yarn. 3,645,085, 2-29-72, Cl. 57-140.

Rassat, Andre: *See—*
Chalier, Genevieve; and Rassat, Andre, 3,658,907.
Chiarelli, Robert; Rassat, Andre; Besson, Rene; and Salvi, Antoine, 3,702,831.

Rassat, Andre; and Ramasseul, Rene, to Commissariat a l'Energie Atomique. Free radicals. 3,642,818, 2-15-72, Cl. 260-326.3.

Rassat, Andre; and Ronzaud, Jacques. Stable free radicals of the nitroxide type derived from tropane ring compounds. 3,704,235, 11-28-72, Cl. 260-292.000.

Rasschaert, Antoine Theofiel; Benoy, Gaston Jacob; and Van-Besauw, Jan Frans, to Gevaert-Agfa N.V. Method for the preparation of arylisothiocyanates. 3,637,787, 1-25-72, Cl. 260-454.

Rasseikin, Mikhail Grigorievich: *See—*
Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinitsky, Vladimir Mikhailovich; Khirdzheiv, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
Shtin, Lev Mikhailovich; Grebnev, Nikolai Feodosovich; Satovskaya, Ljudmila Sergeevna; Rasseikin, Mikhail Grigorievich; Khirdzhiev, Sergei Grigorievich; Perevozchikov, Evgeny Titovich; Zagulina, Sofia Stepanovna; Duda, Vladimir Nikolaevich; and Karasev, Mihail Andreevich, 3,664,168.

Rassieur, Charles L., to Central Mine Equipment Company. Hollow-stem auger head with seal. 3,640,354, 2-8-72, Cl. 175-243.
Rassmann, Christoph; and Heyer, Willy, to Gewerkschaft Eisenhutte Westfalia. Arrangements for controlling the guidance of a mineral mining plough. 3,640,581, 2-8-72, Cl. 299-32.
Rast, Carroll J., Jr. Barbeque grill. 3,683,791, 8-15-72, Cl. 99-340.000.
Rast, Gustav E.; and Steiner, Russell I., to Allied Chemical Corporation. Edible substrates colored with monozo dyestuffs. 3,640,733, 2-8-72, Cl. 99-148.
Rastas, Jussi: *See—*
Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindsjo, Olle; Nyholm, Erik; Poijarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, 3,677,696.
Rastern Rotorcraft Corporation: *See—*
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Rat Elimination System Limited, The, mesne: *See—*
Del Grande, Dominic; and Erdman, Donald C., 3,636,559.
Ratajczyk, James Daniel: *See—*
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Ratcliff, Edward H., Jr.: *See—*
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Ratcliff, Henry K., to Bendix Corporation, The. Transistor power amplifier. 3,648,188, 3-7-72, Cl. 330-26.
Ratcliff, Henry Kevin, to Bendix Corporation, The. Gated power supply for sonic cleaners. 3,638,087, 1-26-72, Cl. 318-118.
Ratcliff Industries, Inc.: *See—*
Ratcliff, John W., 3,650,556.
Ratcliff, John W., to Ratcliff Industries, Inc. Folding screen for telescopic trailer. 3,650,556, 3-21-72, Cl. 296-23.
Ratcliff, Ralph A. Cable hoist. 3,648,978, 3-14-72, Cl. 254-167.
Ratcliff, Ralph A. Cable rigging arrangement for hoist. 3,648,979, 3-14-72, Cl. 254-167.
Ratcliff, Ralph A. Hoist housing-hook combination. 3,656,797, 4-18-72, Cl. 294-82.
Ratcliff, Ralph A. Indicia applying article and method. 3,664,913, 5-23-72, Cl. 161-167.
Ratcliffe, David J., to Lockheed Aircraft Corporation. Apparatus for detecting open-circuit condition. 3,643,247, 2-15-72, Cl. 340-251.
Ratcliffe, George Dennis. Simulated steering device having a manually controlled friction resistance to steering movements. 3,647,210, 3-7-72, Cl. 272-83.
Ratcliffe, George Dennis. Device for use in driving instruction. 3,650,047, 3-21-72, Cl. 35-11.
Ratcliffe, Temple W., to Babcock & Wilcox Company, The. Nozzle arrangement for molten metal container vessel. 3,679,105, 7-25-72, Cl. 222-567.000.
Rate, Edward T., Jr., to General Electric Company. Electron beam discharge device having improved electron gun structure. 3,660,707, 5-2-72, Cl. 313-80.
Raterman, Donald E., to Addressograph-Multigraph Corporation. Apparatus and means for making duplicates of a microfilm original. 3,685,906, 8-22-72, Cl. 355-103.000.
Rath, Eric. Method and device for separation of liquids. 3,631,984, 1-4-72, Cl. 210-83.
Rath, Eric. Contaminant containment method and apparatus. 3,665,713, 5-30-72, Cl. 61-1.00f.
Rathbone, Ivanhoe J., to Remo Precision Tools Limited. Annular shield for bearings. 3,672,736, 6-27-72, Cl. 308-187.200.
Rathbun, Robert R.: *See—*
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Rathbun, Ward J., to General Motors Corporation. Fluid level indicator. 3,646,541, 2-29-72, Cl. 340-244.
Rathfelder, Siegfried F., to Minnesota Mining and Manufacturing Company. Microfiche supporting and positioning apparatus. 3,655,279, 4-11-72, Cl. 353-27.
Rathfon, Norman L., III, to Packaging Corporation of America. Composite package. 3,688,968, 9-5-72, Cl. 229-23.00c.
Rathi, Ram N.: *See—*
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Rathjen, J. Fred; and Laermer, Lothar, to Singer Company, The. Electronic assembly having cooling means for stacked modules. 3,648,113, 3-7-72, Cl. 317-109.
Rathjen, Julius Fred; and Stein, Morris O., to Singer Company, The, mesne. Memory core submodule. 3,636,533, 1-18-72, Cl. 340-174.
Rathjen, Theodore Nicholas; and Hanson, Harold Biddick, to Chemetron Corporation. Mold cover. 3,646,881, 3-7-72, Cl. 99-351.
Rathka, Gary T.: *See—*
MacFarlane, Donald B.; and Rathka, Gary T., 3,661,194.
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Rathmann, William G. Steerable toboggan. 3,684,306, 8-15-72, Cl. 280-22.000.
Raths, Fred W.: *See—*
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Buckman, Stanley J.; Buckman, John D.; Pera, John D.; and Raths, Fred W., 3,639,604.
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Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, VladimirAlexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,720.
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Ratliff, Earl Truman; and Renaut, Paul William, to Bell Telephone Laboratories, Incorporated. Reed switch having contacts plated with a thin silver layer. 3,689,722, 9-5-72, Cl. 200-166.000.
Ratliff, Goerge D., Jr., to United States Steel Corporation. Support assembly. 3,704,560, 12-5-72, Cl. 52-122.000.
Ratliff, Harvey L., Jr., to Jetru Inc. Wide-angle lens. 3,632,189, 1-4-72, Cl. 350-189.
Ratner, Efim Rafailovich: *See—*
Petrov, Vitaly Ivanovich; Ivanov, Alexandr Nikolaevich; Olenin, Jury Leonidovich; Eller, Arnold Oskarovich; Butuzov, Anatoly Akimovich; Basin, Abram Moiseevich; Starobinsky, Vladimir Borisovich; Ratner, Efim Rafailovich; and Potapov, Oleg Fedorovich, 3,659542.
Ratner, George I., to Automatic Close & Lock Corporation. Security locking device. 3,674,360, 7-4-72, Cl. 312-222.000.
Ratnikas, Jonas, to Ford Motor Company. Actuator rod connector. 3,695,652, 10-3-72, Cl. 287-93.000.
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Boissier, Jacques R.; and Ratouis, Roger, 3,635,983.
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Boissier, Jacques R.; and Ratouis, Roger, 3,697,590.
Boissier, Jacques Robert; and Ratouis, Roger, 3,674,841.
Ratouis, Roger; and Boissier, Jacques Robert, to Roussel-UCLAF. Methods of preventing convulsions. 3,679,802, 7-25-72, Cl. 424-285.000.
Ratowsky, Simon, to Jephcott, William C., Rickard, Jean M. and Ontario Development Corporation, mesne. Processing of photographic material. 3,668,997, 6-13-72, Cl. 95-93.000.
Ratowsky, Simon, to Monrick Holdings Limited. Photographic easel. 3,682,547, 8-8-72, Cl. 355-74.000.
Ratowsky, Simon, to Ontario Development Corporation. Method of processing photographic material. 3,705,544, 12-12-72, Cl. 95-93.000.
Ratsch, Joachim, to Loewe Opta GmbH. Electronic flash unit with adjustable flash energy. 3,651,373, 3-21-72, Cl. 315-241.
Rattan, William D.: *See—*
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Rattan, William D.; and McIntosh, Harold A., to Robertshaw Controls Company. Anti-hunting diaphragm valve. 3,655,163, 4-11-72, Cl. 251-45.
Rattan, William D., to Robertshaw Controls Company. Thermally responsive switch and method for making the same. 3,670,281, 6-13-72, Cl. 337-112.
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Rattenbury, Kenneth, to Weston Chemical Corporation. Polymercapto chlorido polyphosphonite. 3,651,178, 3-21-72, Cl. 260-928.
Rattenbury, Kenneth; and Larrison, Millard S., said Rattenbury assor. to Weston Chemical Corporation. Polymercapto polyphosphonites. 3,697,627, 10-10-72, Cl. 260-928.000.
Rattenbury, Kenneth H.: *See—*

Friedman, Lester; Rattenbury, Kenneth H.; and Guttag, Alvin, 3,641,218.
Rattenbury, Kenneth H., to Weston Chemical Corporation. Polymercapto polyphosphites. 3,666,837, 5-30-72, Cl. 260-928.000.
Rattenbury, Kenneth H.; and Larrison, Millard S., said Rattenbury assor. to Watson Chemical Corporation. Polyphosphites. 3,692,879, 9-19-72, Cl. 260-928.000.
Ratteree, James; and Seaman, James A. Brake drum truing method and apparatus. 3,677,655, 7-18-72, Cl. 408-1.000.
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Rattey, Wilfred H., Jr. Board game apparatus. 3,698,716, 10-17-72, Cl. 273-134.0ae.
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Ratto, Luigi, to Ratlec S.p.A. Compositions for eliminating deposits from the combustion chambers of internal combustion engines. 3,658,708, 4-25-72, Cl. 252-56.
Ratto, Peter Angelo: *See—*
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Ratts, Kenneth Wayne, to Monsanto Company. Fungicidal composition and method containing α-substituted sulfonium ylids. 3,644,639, 2-22-72, Cl. 424-308.
Ratts, Kenneth Wayne, to Monsanto Company. Sulfonium halides and derivatives thereof. 3,654,344, 4-4-72, Cl. 260-481.
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Brickner, Kenneth G.; and Ratz, George A., 3,684,589.
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Ratz, Walter: *See—*
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Ratz, Walter, to Bergwerksverband GmbH. Method and apparatus for testing geological strata for identification thereof. 3,699,429, 10-17-72, Cl. 324-5.000.
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Rau, John C., to General Motors Corporation. Change-speed drive axle. 3,636,796, 1-25-72, Cl. 74-700.
Rau, John C. Roller bearing. 3,653,731, 4-4-72, Cl. 308-184.
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Rebillet, Marcel. Traffic signals having annular colored illiminated tube around each signal lens. 3,688,259, 8-29-72, Cl. 340-112.00r.
Rebold, Jerome I., to Black and Decker Manufacturing Company, The. Socket release construction for socket wrench. 3,638,519, 2-1-72, Cl. 81-177.
Rebold, Jerome I., 1/3 to Bloom, Leonard. Portable power-operated douching appliance. 3,653,377, 4-4-72, Cl. 128-66.
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Reboulet, William C.; and Werner, David C., to National Cash Register Company, The. Automatic repeat mechanism. 3,633,819, 1-11-72, Cl. 235-62.
Rebsamen, Arthur, to Leesona Corporation. Textile machine. 3,638,412, 2-1-72, Cl. 57-52.
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Recasens, Joseph, to L'Electro-Refractaire. Cluster casting apparatus for workpieces made of poured molten refractory material. 3,697,037, 10-10-72, Cl. 249-81.000.
Recchia, Frank P.; and Ulrich, Henri, to Upjohn Company, The. Process for preparing di(aminophenyl)-methanes. 3,676,497, 7-11-72, Cl. 260-570.00d.
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Recht, Friedel. Tobacco pipe bowl. 3,707,154, 12-26-72, Cl. 131-216.000.
Recht, Howard L.; and Ghassemi, Masood, to North American Rockwell Corporation. Rare earth ion removal from waste water. 3,692,671, 9-19-72, Cl. 210-45.000.
Rechter, Harold L.: *See—*
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Reck, Richard A.; and Abramitis, Walter W., to Armour Industrial Chemical Company, mesne. Plant hormone carboxylic acid salts of aliphatic polyamines. 3,683,010, 8-8-72, Cl. 260-501.160.
Reckers, Donald J., to Pollution Control, Inc. Method and apparatus for tertiary treatment of effluent. 3,642,134, 2-15-72, Cl. 210-73.
Reckitt & Colman Products Limited, mesne: *See—*
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Recks, John A., to Honeywell Inc. Serial bit comparator with selectable bases of comparison. 3,660,823, 5-2-72, Cl. 340-146.2.
Reckseit, Bernard S.; and Burgess, George A., to Sweco, Inc. Hoist pans and hoist pan handling apparatus. 3,697,006, 10-10-72, Cl. 241-171.000.
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Record, Robert George Hamilton; Wilson, Haydn; and Rudd, Derek Austen, to Kent, George, Limited. Electrode assembly. 3,645,875, 2-29-72, Cl. 204-195.
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Redden, Robert J., to ILC Industries, Inc. Automatic safety curtain apparatus for air enclosing structures. 3,682,225, 8-8-72, Cl. 160-98.000.
Redden, Robert J., to ILC Industries, Inc. Fabric connector. 3,698,045, 10-17-72, Cl. 24-203.000.
Reddick, Willis C., to International Telephone and Telegraph Corporation. Hands-free emergency call box. 3,707,607, 12-26-72, Cl. 179-100.00l.
Redding, Arnold H., to Westinghouse Electric Corporation. Rotor structure and method of broaching the same. 3,692,429, 9-19-72, Cl. 416-201.000.
Reddy, Robert R. Lip seal. 3,635,499, 1-18-72, Cl. 285-111.
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Redeker, Kurt. Method and means for improving and increasing the reliability of hydraulic and pneumatic multi-circuit control systems. 3,702,120, 11-7-72, Cl. 137-1.000.
Redel, Joseph; and Boch, Jean Baptiste Christian, to A. E. C. Societe de Chimie Organique et Biologique. Process of preparing phytone. 3,676,499, 7-11-72, Cl. 260-593.000.
Redelman, Paul E., to Interlake Steel Corporation. Hydraulic load carrier. 3,704,800, 12-5-72, Cl. 214-730.000.
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Redford, David Arthur, to Canadian Fina Oil Limited. Process for developing interwell communication in a tar sand. 3,706,341, 12-19-72, Cl. 166-275.000.
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Shelley, Meville L., 3,694,938.
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Redland Bricks Limited: *See—*
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Redman, Howard E.; and Kalning, Frederick E. Mattress closing machine with automatic positioning means for a mattress assembly. 3,664,280, 5-23-72, Cl. 112-3.
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Johnston, Lynn M.; Jones, Chester G.; Neal, Harold D.; and Redman, Samuel A., 3,636,868.
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Redmond John A.: *See—*
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Annand, Robert R.; Redmore, Derek; and Rushton, Brian M., 3,669,612.
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Redmore, Derek, to Petrolite Corporation. Use of phosphonium compounds as corrosion inhibitors. 3,664,807, 5-23-72, Cl. 21-2.500.
Redmore, Derek, to Petrolite Corporation. Phosphonates of full aromatic nitrogen heterocyclics. 3,673,196, 6-27-72, Cl. 260-294.900.
Redmore, Derek, to Petrolite Corporation. Imidazoline phosphonic acids. 3,674,804, 7-4-72, Cl. 260-309.600.
Redmore, Derek, to Petrolite Corporation. Corrosion inhibitor of dihydro-aromatic nitrogen-heterocyclic phosphonates. 3,694,144, 9-26-72, Cl. 21-2.700.
Redmore, Derek; and Oude Alink, Bernardus A., to Petrolite Corporation. Use of thionium derivatives as corrosion inhibitors. 3,697,221, 10-10-72, Cl. 21-2.500.
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Redtzky, Wolfgang: *See—*
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Redwantz, James O., to Texas Instruments, Incorporated. Semiconductor interconnecting system using conductive patterns bonded to thin flexible insulating films. 3,662,230, 5-9-72, Cl. 317-234.
Redwine, Donald J.; and Worstell, Earl M., Jr., to Texas Instruments, Incorporated. MOS bipolar push-pull output buffer. 3,649,843, 3-14-72, Cl. 307-214.
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Reeber, Rudolf; and Lanzenberger, Horst, to Friedrich Deckel Prazisions Mechanik & Maschinenbau. Device for securing and releasing of worktools in a worktool machine spindle. 3,633,457, 1-11-72, Cl. 90-11.
Reece, Albert Benjamin John; and Heap, Harry Rodney, to Tracked Hovercraft Limited. Linear induction motor bail. 3,631,809, 1-4-71, Cl. 104-148.
Reece, Jack E.; and Fozzard, George B., to Phillips Petroleum Company. Certain thiazine-2-thione compounds and method of preparing same. 3,697,516, 10-10-72, Cl. 260-243.00r.
Reece, Paul; and Graham, Peter H., to General Electric Company. Laminated dynamoelectric machine core and method of stacking. 3,652,889, 3-28-72, Cl. 310-259.
Reece, Thomas L., to Dover Corporation. Filtration system. 3,692,178, 9-19-72, Cl. 210-82.000.

Reece, Thomas L.; and Bryant, Thurman E., to Dover Corporation, mesne. Filter with rotating backwash selector. 3,703,465, 11-21-72, Cl. 210-333.000.

Reed, Charles B. Gyroscopic stable reference apparatus. 3,648,525, 3-14-72, Cl. 74-5.34.

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Reed, Clyde E., to Sperry Rand Corporation. Method of hydrostatically forming a tunnel structure for a magnetic plated wire memory array. 3,643,325, 2-22-72, Cl. 29-604.

Reed, David H.: *See—*
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Reed, Donald A., to Boeing Company, The. Lag frequency selective damper. 3,638,885, 2-1-72, Cl. 244-17.27.

Reed, Donald E.: *See—*
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Reed, Donald L. Remote controlled football game with pass play apparatus. 3,672,674, 6-27-72, Cl. 273-94.00r.

Reed, Dwight L. Adjustable stand. 3,664,629, 5-23-72, Cl. 248-445.

Reed, Edward W.: *See—*
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Reed, Everett E.; and Boynton, James S., to United Tool Processes Corporation. Valve-guide coring tool. 3,674,375, 7-4-72, Cl. 408-103.000.

Reed, Frederick P., to United States of America, Army. Firing mechanism for a multishot rocket launcher. 3,641,868, 2-15-72, Cl. 89-1. 81.

Reed, Gaylard O., to Salem Equipment, Inc. Rotary cutting device. 3,650,171, 3-21-72, Cl. 83-355.

Reed, Gaylard O., to Salem Equipment, Inc. Log pre-centering apparatus for veneer lathes. 3,664,395, 5-23-72, Cl. 144-209.

Reed, Gaylard O. Drive assembly for dual chuck veneer lathes. 3,672,416, 6-27-72, Cl. 144-209.000.

Reed, Geoffrey R., to British Iron and Steel Research Association, The. Packaging. 3,698,152, 10-17-72, Cl. 53-27.000.

Reed, Geoffrey Ronald, to British Iron and Steel Research Association, The. Packaging coils. 3,670,877, 6-20-72, Cl. 206-59.00f.

Reed, George A.: *See—*
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Reed, Gerald D.: *See—*
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Reed, Howard D. Seam locator for sizing draperies. 3,699,674, 10-24-72, Cl. 38-102.500.

Reed, Hugh Charles Brent: *See—*
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Reed, Jack L., to Riverton Industries, Inc. Device for creating spray from a water ski. 3,685,068, 8-22-72, Cl. 9-310.00r.

Reed, Jack Owen, to Bard-Hamilton Company, Inc. Intracutaneous injection system. 3,688,764, 9-5-72, Cl. 128-2.00r.

Reed, James M., to Littelfuse, Inc. Fuse extractor unit. 3,654,824, 4-11-72, Cl. 81-3.8.

Reed, Jerry L.: *See—*
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Reed, Jerry L., to United States of America, Navy. Exhaust system. 3,631,678, 1-4-72, Cl. 60-264.

Reed, Jerry O.; and Dix, James S., to Phillips Petroleum Company. Color stabilized poly(arylene sulfide)resins. 3,658,753, 4-25-72, Cl. 260-45.7.

Reed, Joe A.; and Reed, John D. Opener. 3,656,375, 4-18-72, Cl. 81-3.46.

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Reed, John F., to New Britain Machine Company, The. Motor drive system with acceleration-deceleration controls. 3,636,424, 1-18-72, Cl. 318-259.

Reed, John M.; Reynard, John M.; and Scibilia, Peter A., to Polaroid Corporation. Electronic flash unit. 3,705,540, 12-12-72, Cl. 95-11.50r.

Reed, Kenneth James; McGilvray, Donald Ian; and Fletcher, Jack, to McCorquodale Colour Display Limited. Application of liquid colours to paper card or other smooth surfaces. 3,632,382, 1-4-72, Cl. 117-38.

Reed, L. J., to Motorola, Inc. Resonant circuit transistor oscillator system. 3,665,342, 5-23-72, Cl. 331-109.000.

Reed, Madison W., Jr.; and Schwemer, Warren C., to Advanced Technology Center, Inc., mesne. Method of making a porous carbon material. 3,647,551, 3-7-72, Cl. 136-122.

Reed, Meuriel F., to Gillette Company, The. Writing instrument cap securing means. 3,666,373, 5-30-72, Cl. 401-247.

Reed Paper Group Limited: *See—*
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Reed, Peter William Maurice, to Ozalid Company Limited. Diazotype materials. 3,661,591, 5-9-72, Cl. 96-91.

Reed, Ray. Holder for license plates and signs. 3,683,529, 8-15-72, Cl. 40-209.000.

Reed, Ray Allen: *See—*
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Reed, Robert D.: *See—*
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Reed, Robert D.; Goodnight, Hershel; and Zink, John Smith, to Zink, John, Company. Burner assembly for combustion of oil. 3,632,287, 1-4-72, Cl. 431-350.

Reed, Robert D., to Zink, John, Company. Apparatus for sulfur recovery. 3,661,534, 5-9-72, Cl. 23-262.

Reed, Robert D.; and Zink, John Smith, to Zink, John, Company. Pressurized fuel burner. 3,684,189, 8-15-72, Cl. 239-425.500.

Reed, Robert D., to Zink, John, Company. Burner assembly for flare stack. 3,697,231, 10-10-72, Cl. 23-277.00c.

Reed, Robert G.: *See—*
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Reed, Robert G., to Cutters Machine Company, Inc. Speed reducing apparatus for a cloth spreading machine. 3,694,722, 9-26-72, Cl. 318-368.000.

Reed, Robert T., to Walton Products Inc. Electrical circuit control apparatus. 3,646,498, 2-29-72, Cl. 339-48.

Reed, Roger R., to Sylvania Electric Products, Inc. System for locating and communicating with mobile units. 3,662,267, 5-9-72, Cl. 325-53.000.

Reed Rolled Thread Die Co.: *See—*
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Reed, Russell, Jr.: *See—*
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Reed, Stanley E., Jr.; and Ruby, Donald C., to FMC Corporation. Injection pump. 3,672,794, 6-27-72, Cl. 417-382.000.

Reed, Stuart; and Schiffman, Louis, to Amchem Products, Inc. Chloride concentration control in immersion copper coating. 3,649,343, 3-14-72, Cl. 117-130.

Reed, Thomas F.: *See—*
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Reed, Weldon N.: *See—*
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Reed, William A.: *See—*
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Roblin, John M.; Cole, Frank J.; and Reed, William A., 3,690,638.

Reed, William A.; and Cole, Frank J., to Republic Steel Corporation. Method for vaporizing molten metal. 3,640,762, 2-8-72, Cl. 117-107.1.

Reed, William A.; Kinzer, William K.; Swanson, John J.; and Kusner, Robert E., to Republic Steel Corporation. Process for producing metal powder. 3,655,837, 4-11-72, Cl. 264-6.

Reede, Thomas Pieter, to U.S. Philips Corporation. Use of a plurality of scanning directions for character center line determination. 3,673,566, 6-27-72, Cl. 340-146.3ae.

Reeder, Charles H., to W & R Industries, Inc. Transition pipe joint. 3,656,783, 4-18-72, Cl. 285-239.

Reeder, Douglas L., Jr.: *See—*
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Reeder, George H., Jr. Piano construction. 3,675,527, 7-11-72, Cl. 84-180.000.

Reeder, Ronald Holt: *See—*
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Reich, Rudolph. Embroidery machine. 3,680,505, 8-1-72, Cl. 112-83.000.
Reich, Rudolph. Machine installation for forming on successive fields of continuous flexible ribbon complemental parts of decorative patterns. 3,690,273, 9-12-72, Cl. 112-121.110.
Reich, Simon, to General Signal Corporation. System for governing the speed of railway vehicles. 3,639,753, 2-1-72, Cl. 246-182.
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Reichel, Sigrid, to Institut fur Silikon-und Fluorkarbon-Chemie. Process for preparing gamma-aminopropylalkoxysilanes and gamma-aminopropylalkylalkoxysilanes. 3,665,027, 5-23-72, Cl. 260-448.8.
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Reichhelm, Robert. Anti-pollution after burner. 3,650,111, 3-21-72, Cl. 60-30.
Reichhelm, Robert. Fuel gasification for internal combustion engines. 3,667,436, 6-6-72, Cl. 123-119.00a.
Reichhelm, Robert; and Morrison, Albert, Jr., to Burnham Corporation. Liquid fuel burner having reduced thermal stress and rapid start-up time. 3,705,784, 12-12-72, Cl. 431-116.00a.
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Reick, Franklin G.; and Wilder, Joseph R., 16% to Ebert, Michael, 28% to Picut, Frederick R., 28% to Reick, Franklin G. and 28% to Wilder, Joseph R. Fiber optics illumination system. 3,641,332, 2-8-72, Cl. 240-1.
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Reid, Edward S., to Sonoco Products Company. Compact nesting septic tank package and sewage disposal system utilizing same. 3,658,176, 4-25-72, Cl. 206-65.
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Reid, James S., to Standard Products Company, The. Apparatus and method for aerating waste material. 3,673,082, 6-27-72, Cl. 210-12.000.
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Reilly, Bertram B. Apparatus for moving refuse from a bin. 3,680,719, 8-1-72, Cl. 214-17.00d.
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Reilly, Frederick W., to Beautiline Limited. Connector for joining tubular members. 3,645,569, 2-29-72, Cl. 287-54.
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Reinhard, Russell R.; and Blackley, William D., to Texaco Inc. Bis(perfluoroalkyl)nitroxide mercuride. 3,644,449, 2-22-72, Cl. 260-432.
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Reinker, Joseph F., Jr., to Aeroquip Corporation. Push together tube connector. 3,645,567, 2-29-72, Cl. 285-340.
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Reinnagel, Richard E., to Cornell Aeronautical Laboratory, Inc. Safety venting apparatus combined with an aerosol container. 3,680,743, 8-1-72, Cl. 222-397.000.
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Reiter, Gabriel. Dental-prophylaxis composition. 3,647,381, 3-7-72, Cl. 51-308.
Reiter, Gabriel. Dish for mixing denture repair materials. 3,659,825, 5-2-72, Cl. 259-60.
Reiter, Gyorgy; Szenasi, Sandor; Toth, Bela; and Rakosi, Ferenc, to Tavkozlesi Kutato Intezet. Microwave balanced receiver mixer. 3,652,940, 3-28-72, Cl. 325-446.
Reiter, Josef. Background photography. 3,665,828, 5-30-72, Cl. 95-11.00r.
Reiter, Jozsef: *See*—
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Reiter, Paul: *See*—
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Reiter, Werner. Label or ticket system. 3,684,869, 8-15-72, Cl. 235-61.12m.
Reiterman, Donald R., to American Hospital Supply Corporation. Medical infusion set. 3,670,727, 6-20-72, Cl. 128-214.00r.
Reither, Thomas D.; and Trease, Ralph E., to Owens-Illinois, Inc. Adhesive composition. 3,635,875, 1-18-72, Cl. 260-37.
Reitinger, Johann: *See*—
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Reitter, Teodoro. Internal combustion rotary engine. 3,703,344, 11-21-72, Cl. 418-61.000.
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Ibach, William F.; Looney, Franklin S., Jr.; and Reitz, David C., 3,664,381.
Reitz, Edward G. Method of and means for indicating the position of a cup in a golf course green. 3,685,168, 8-22-72, Cl. 35-7.00a.
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Reitz, Lewis P., Jr., to Technicolor, Inc. Pan scan system. 3,698,806, 10-17-72, Cl. 355-40.000.
Reitz, Reinhard; deceased (by Reitz, Gertrud; legal representative), to Knorr-Bremse GmbH. Single release air brake for railroad vehicles. 3,701,570, 10-31-72, Cl. 303-70.000.
Reitz, Roderick, to General Electric Company. Lightning arrester capacitive grading circuit mounting means. 3,706,009, 12-12-72, Cl. 317-68.000.
Reitzel Designs, Inc.: *See*—
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Reitzel, George, to Drescher & Kiefer Altenmittlau Gelnhausen and Randolph-Rand Corporation. Lady's handbag, pouch or purse. 3,692,078, 9-19-72, Cl. 150-29.000.
Reitzel, John S.; and Reitzel, Gail L., to Reitzel Designs, Inc. Construction toy. 3,698,124, 10-17-72, Cl. 46-30.000.
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Horatschke, Rudolf; Holy, Zdenek; Havlas, Jiri; Kostelecky, Premysl; and Rejnart, Vlastimil, 3,643,990.
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Rejsa, Jack J.; and Kiker, Paul K., to Pillsbury Company, The. Poultry transfer apparatus and method. 3,643,293, 2-22-72, Cl. 17-11.
Rejsa, Jack J.; and Meyer, James A., to Pillsbury Company, The. Meat injection apparatus. 3,675,567, 7-11-72, Cl. 99-257.000.

Rejsa, Jack J., to Pillsbury Company, The. Method and apparatus for severing food products. 3,680,616, 8-1-72, Cl. 146-222.000.
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Pitroda, Satyan G.; and Rekiere, Bernard J., 3,706,855.
Rekiere, Bernard J., to GTE Automatic Electric Laboratories, Incorporated. Integrated switching and transmission network for pulse modulated signals. 3,637,941, 1-25-72, Cl. 179-15.
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Relly, Robert H.; Winburn, Charles F.; and Sun, Herbert K. Y., to Batesville Casket Company, Inc. Stationary hinge for casket handles. 3,657,764, 4-25-72, Cl. 16-112.
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Remaly, Robert F.; and Abel, William A., to Victor Comptometer Corporation. Method of making propellant body having voids throughout body. 3,673,286, 6-27-72, Cl. 264-3.00r.
Reman, Gerrit H.; and Verkoren, Henri, to Shell Oil Company. Preparation of a liquid fuel for a pressure-type atomizer. 3,672,853, 6-27-72, Cl. 44-52.000.
Remane, Roger, to Application des Gaz. Filling heads for liquid containers. 3,683,976, 8-15-72, Cl. 141-59.000.
Remane, Roger, to Application des Gaz. Spherical containers for pressurized fluids. 3,690,500, 9-12-72, Cl. 220-1.00b.
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Remaud, Jacques, to Regie Nationale des Usines Renault and Automobiles Peugeot. Trim-correcting devices for vehicles. 3,704,895, 12-5-72, Cl. 280-124.00f.
Remaud, Jacques C.; and Bouthors, Pierre, to Regie Nationale des Usines Renault and Automobiles Peugeot. Braking system control and anti-lock devices. 3,703,320, 11-21-72, Cl. 303-21.00f.
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Rembaum, Alan; and Hermann, Allen M., to California Institute of Technology. Pressure transducer. 3,641,470, 2-8-72, Cl. 338-99.
Rembaum, Alan, to California Institute of Technology. Viscoelastic cationic polymers containing the urethane linkage. 3,655,814, 4-11-72, Cl. 260-77.5.
Rembaum, Alan, to California Institute of Technology. Heat detection and compositions and devices therefor. 3,700,603, 10-24-72, Cl. 252-408.000.
Rembert, Charles. Drinking water supply for automotive vehicles. 3,642,023, 2-15-72, Cl. 137-209.
Rembert, Russell S.; and Thomas, Gerald F., to LTV Aerospace Corporation. Method of forming a pad. 3,649,724, 3-14-72, Cl. 264-22.
Rembold, Heinz; and Losert, Ewald, to Ciba-Geigy AG. Process for the manufacture of prepregs. 3,676,200, 7-11-72, Cl. 117-121.000.
Remco Manufacturing Co., Inc.: *See—*
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Remer, Robert K., to Inca Inks, Inc. Printing and coating method. 3,669,720, 6-13-72, Cl. 117-93.310.
Remers, William Alan; and Weiss, Martin Joseph, to American Cyanamid Company. 1-(Phenyl lower alkyl)-4,5,6,7-tetrahydroindoles and methods of preparing same. 3,652,585, 3-28-72, Cl. 260-319.1.
Remers, William Alan; and Weiss, Martin Joseph, to American Cyanamid Company. 2-Halo-4-oxo-4,5,6,7-tetrahydroindoles and methods of preparing same. 3,652,592, 3-28-72, Cl. 260-326.16.
Remers, William Alan; and Weiss, Martin Joseph, to American Cyanamid Company. 5-Bromo-4-oxo-4,5,6,7-tetrahydroindoles and method of preparing same. 3,654,303, 4-4-72, Cl. 260-326.12.
Remers, William Alan; Gibs, Gabriel Joseph; and Weiss, Martin Joseph, to American Cyanamid Company. Certain 2-amino-1,3,4-thiadiazoles. 3,700,684, 10-24-72, Cl. 260-306.80d.
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Remick, Karl F., to Cities Service Oil Company. Tobacco curing apparatus. 3,687,428, 8-29-72, Cl. 263-19.00d.
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Remmers, Karl; Bertoldi, Gerhard; Leitner, Karl; and Eigner, Erich, to Rheinstahl Strico GmbH. Process for calcining gypsum in a current of heating gas. 3,648,994, 3-14-72, Cl. 263-53.
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Rempala, Chester S., to Bell & Howell Company. Microfilm transport system and trailing leader. 3,675,877, 7-11-72, Cl. 242-209.000.

Rempel, Dietrich G., to Rempel Enterprises, Inc., mesne. Fruit picking apparatus. 3,633,336, 1-11-72, Cl. 53-391.
Rempel, Dietrich G., to Rempel Enterprises, Inc., mesne. Fruit container pickup vehicle. 3,666,126, 5-30-72, Cl. 214-302.
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Ren, Chung-Li; and Wang, Han-Chiu, to Bell Telephone Laboratories, Incorporated. Waveguide channel diplexer and mode transducer. 3,668,564, 6-6-72, Cl. 333-6.000.
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Renaut, Henry. Apparatus for pressing and heating textile articles. 3,678,606, 7-25-72, Cl. 38-22.000.
Renaut, Henry. Apparatus for the heat treatment of sheet and fibrous material. 3,689,350, 9-5-72, Cl. 156-540.000.
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Rendessy, William L. Sway control for trailer hitch. 3,659,874, 5-2-72, Cl. 280-446.
Rendessy, William L. Sway control for trailer hitch. 3,680,891, 8-1-72, Cl. 280-446.00b.
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Renfrew, Robert Morrison; and Rees, Peter Leon, to Husky Manufacturing and Tool Works Limited. Electro-hydraulic means for opening and closing injection molds. 3,704,973, 12-5-72, Cl. 425-150.000.
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Renfroe, Charles L. Easy hole digger. 3,645,578, 2-29-72, Cl. 294-50.9.
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Reni, Cesare, to Societa' Italiana Resine S.p.A. Method of stabilizing polyethylene with anion exchange resins. 3,641,214, 2-8-72, Cl. 260-897.
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Reni, Cesare; Lugo, Luigi; and Gualdi, Giorgio, to Societa' Italiana Resine S.p.A. Method of producing aromatic carboxylic acids from alkylbenzenes. 3,673,244, 6-27-72, Cl. 260-524.00r.
Reni, Cesare; Gualdi, Giorgio; and Lugo, Luigi, to Societa Italiana Resine S.p.A. Method of producing aromatic carboxylic acids from alkylbenzenes. 3,674,845, 7-4-72, Cl. 260-524.00r.
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Renken, Howard C.; and Zegers, Theodoor W., to Texas Gulf Sulphur Company. Process for electrowinning zinc from sulfide concentrates. 3,655,538, 4-11-72, Cl. 204-114.
Renn, Charles E. Cell assembly. 3,695,229, 10-3-72, Cl. 119-4.000.
Renna, Nicholas, Jr., to United States of America, Navy. Underwater acoustic projector. 3,706,967, 12-19-72, Cl. 340-10.000.
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Renneck, John L., to Zenith Radio Corporation. Chroma processing circuitry with selectable color correction mode. 3,662,097, 5-9-72, Cl. 178h5.4.
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Rennells, Kenneth C., to Ott Chemical Company, The. Method of making trimethylurea. 3,663,614, 5-16-72, Cl. 260-553.
Renner, Charles F.; and Lipstein, Norman J., to General Electric Company. Starter generator construction. 3,648,086, 3-7-72, Cl. 310-63.
Renner, Eskhard; and Linnenbecker, Udo, to Vereinigte Flugtechnische Werke-Fokker GmbH. Multiple unit, hydraulic actuator. 3,703,849, 11-28-72, Cl. 91-412.000.
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Renner, Howard W.; and Moores, John A., to Cincinnati Milacron Inc. Guard system for high speed grinder. 3,694,971, 10-3-72, Cl. 51-267.000.
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Rennick, John L., to Zenith Radio Corporation. Matrix amplifier with gain adjusting means ineffective to alter the color of black. 3,636,245, 1-18-72, Cl. 178-5.4.
Rennick, Leonard E., to Sun Oil Company. Process for preparation of methylcyclopentane and methylcyclohexanecarboxylic acids and esters. 3,674 831, 7-4-72, Cl. 260-468.0cb.
Rennick, Lyle V., to Northrop Corporation. Accurate square-law detector circuit. 3,681,700, 8-1-72, Cl. 328-144.000.
Rennie, Compton Alexander; Lockett, George Edward; and Hosegood, Samuel Brittan, to United Kingdom Atomic Energy Authority. Pentagonal core blocks for gas cooled nuclear reactors. 3,676,297, 7-11-72, Cl. 176-58.000.
Rennie, Foster Wilson: *See—*
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Rennolds, Philip J., to Du Pont de Nemours, E. I., and Company. Rotary boilers. 3,690,302, 9-12-72, Cl. 122-11.000.
Reno, Frederick, to Ford Motor Company. Vehicle accelerator linkage assembly. 3,646,829, 3-7-72, Cl. 74-513.
Renoe, Ronald R., to Hallmark Cards, Incorporated. Method of producing compression molded candles. 3,702,495, 11-14-72, Cl. 29-428.000.
Renold, Adolph, to Colgate-Palmolive Company. Deodorization of fats. 3,678,084, 7-18-72, Cl. 260-424.000.
Renold Limited: *See—*
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Renold, Walter. Free floating pressure roller means and retracting mechanism for film drive. 3,669,331, 6-13-72, Cl. 226-176.000.
Renoulin, Roger, to Societe Lannionnaise d'Electronique. Device for distributing high-safety time bases. 3,686,657, 8-22-72, Cl. 340-248.00a.
Rensch, Eberhard G. Structure consisting of prefabricated parts. 3,686,812, 8-29-72, Cl. 52-274.000.
Rensch, Eberhard G. Framework for building structures. 3,688,461, 9-5-72, Cl. 52-650.000.
Rensch, Eberhard G. Building-frame structure. 3,706,169, 12-19-72, Cl. 52-263.000.
Rensin, Ernest I., to International Telephone and Telegraph Corporation. Code compression system. 3,678,507, 7-18-72, Cl. 340-347.0dd.
Renskers, John O.: *See—*
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Renskers, John O., to Coilcraft, Inc. Non-circular high Q coils. 3,676,813, 7-11-72, Cl. 336-189.000.
Rensvold, Roger F., to Halliburton Company. Destruction of oil slicks. 3,705,782, 12-12-72, Cl. 431-7.000.
Rentel, Heinz; and Spietschka, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for converting dyestuffs of the aryl-pararosaniline sulphonic acid series into valuable pigments having a high tinctorial strength. 3,63,745, 1-18-72, Cl. 106-288.
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Schromm, Kurt; Mentrup, Anton; Zeile, Karl; Renth, Ernst-Otto; Engelhardt, Albrecht; and Traunecker, Werner, 3,673,187.
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Rentschler, Waldemar T.; and Espig, Winfried, to Prontor-Werk Alfred Gauthier, G.m.b.H. Flash guns. 3,645,189, 2-29-71, Cl. 95-11.5.
Rentschler, Waldemar T., to Prontor-Werk Alfred Gauthier G.m.b.H. Photographic camera with flash mechanism. 3,687,028, 8-29-72, Cl. 95-11.00r.
Rentschler, Waldemar T., to Prontor-Werk Alfred Gauthier, G.m.b.H. Camera shutter mechanism. 3,687,045, 8-29-72, Cl. 95-59.000.
Rentz, John C., to United States of America, Army. Interchangeable tip for discrete dropping apparatus. 3,677,447, 7-18-72, Cl. 222-193.000.
Rentz, Warren A.: *See—*
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Renzi, Kazimer. Creel with tubular yarn guide. 3,664,602, 5-23-72, Cl. 242-131.000.
Renzing, Otto, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H. Scraper conveyor guiding longwall machine. 3,659,900, 5-2-72, Cl. 299-43.
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Requa, Stanley C., to Northrop Corporation. Digitally addressed electroluminescent solid state display device comprising modulating plate for intensity modulating a scanning light beam. 3,639,806, 2-1-72, Cl. 315-169.
Reque, Albert K.; and Peterson, Julius T., to Engineering Development Co., Inc. Safety lock. 3,667,259, 6-6-72, Cl. 70-14.000.
Requena, Jorge Federico. Window and venetian-blind assemblies for regulating light travel. 3,685,205, 8-22-72, Cl. 49-64.000.
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Garshelis, Ivan J., 3,685,643.
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Resh, John S., to Honeywell Inc. Switch mechanism with S-shaped snap acting spring member. 3,691,331, 9-12-72, Cl. 200-67.0db.
Resh, John S., to Honeywell Inc. Snap-in rigid lever actuating arrangement. 3,700,843, 10-24-72, Cl. 200-172.00a.
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Reske, Albert E.; and Johnson, Orlo J., to Tel-E-Lect, Inc. Rotatable and extensible elbow. 3,690,408, 9-12-72, Cl. 182-141.000.
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Resneau, Jean-Claude, to Thomson-CSF. Process for manufacturing microwave capacitors. 3,695,954, 10-3-72, Cl. 156-3.000.
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Restaino, Alfred J., to Atlas Chemical Industries, Inc. Acrylamide polymers as flocculants in recovery of nickel catalysts. 3,640,897, 2-8-72, Cl. 252-412.
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Restivo, Frank S., to Westinghouse Electric Corporation. Testing system for motor driven apparatus. 3,705,352, 12-5-72, Cl. 324-158.0mg.
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Retallick, Lawrence A.; Limpel, Lawrence E.; and Bluestone, Henry, to Diamond Shamrock Corporation. Oximino esters of organophosphorus and organothiophosphorus compounds. 3,663,664, 5-16-72, Cl. 260-944.
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Rethmeier, Gerhard, to Anker-Werke Aktiengesellschaft. Device for controlling repetitive machine runs in registering business machines. 3,682,377, 8-8-72, Cl. 235-60.460.
Rethwish, William F., to Rohr Corporation. Tape deck. 3,637,165, 1-25-72, Cl. 242-199.
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Rettew, Richard R.; Wirth, David G., Jr.; and Glemza, Rimantas, to Grace, W. R., & Co. Process for the preparation of fine sized magnesium aluminate spinal. 3,702,882, 11-14-72, Cl. 423-600.000.
Rettew, Richard Raymond; Wirth, David Griffith, Jr.; and Levy, Newton, Jr., to Grace, W. R., & Co. Process for the preparation of alumina and magnesium aluminate bodies. 3,655,330, 4-11-72, Cl. 23-52.
Rettig, Charles E., to Allis, Louis, Company, The. Limit defining firing wave generator. 3,636,373, 1-18-72, Cl. 307-252.
Rettig, Thomas Albert, to Du Pont de Nemours, E. I., and Company. Photoinitiation of vinyl polymerization by triaroylphosphines. 3,668,093, 6-6-72, Cl. 204-159.230.
Rettig, Vernon Eugene; Maust, John Edward, Jr.; and Shindelar, Joseph John, to Deere & Company. Agricultural implement. 3,645,074, 2-29-72, Cl. 56-14.6.
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Reulecke, Wilhelm; Litzenburger, Toni; and Winter, Otto, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method of purifying a phosphoric acid hydrolyzing solution. 3,650,691, 3-21-72, Cl. 23-165.
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Reusser, Robert E., to Phillips Petroleum Company. Disproportionation-dimerization of ethylene. 3,689,589, 9-5-72, Cl. 260-683.15r.
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Reust, Paul H.; and Taube, Donald R., to Essex International Inc. Lead wire inserting mechanism for stator winding apparatus. 3,675,300, 7-11-72, Cl. 29-205.00c.
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Reuter, Franz Gottfried, to Elastomer A.G. Thermoplastic polyurethanes prepared from caprolactone polyesters and method of preparation. 3,658,756, 4-25-72, Cl. 260-47.
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Reynolds, Richard W., to Sundstrand Corporation. Emergency hydraulic power system. 3,660,977, 5-9-72, Cl. 60-39.28.

Reynolds, Richard W. Sectionalized pontoon apparatus. 3,673,976, 7-4-72, Cl. 114-61.000.

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Reynolds, Robert W.; and Wight, George P., to Clary Corporation. Attitude indicating instrument. 3,698,823, 10-17-72, Cl. 356-250.000.

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Reynolds, Rolfe E.; and Carlile, Alfred E., to Textron, Inc. Plastic fastener and method of securing same to material. 3,696,470, 10-10-72, Cl. 24-90.000.

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Reynolds, Verne J. Surface conforming disposable surgical preparation applicator. 3,687,140, 8-29-72, Cl. 128-269.000.

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Rheineck, Alfred E.; Nielsen, Paul L.; and Khoe, Teng H., to North Dakota State University Memorial Foundation. Copolymers of hydroxyalkyl methacrylates and an acrylate or methacrylate ester reacted with a partially epoxidized drying oil. 3,676,384, 7-11-7, Cl. 260-23.0ep.

Rheiner, Alfred, Jr.; Fernex, Michel; and Herrero, Jose, to Hoffmann-La Roche Inc. Antimalarial compositions. 3,674,872, 7-4-72, Cl. 424-229.000.

Rheiner Maschinenfabrik Windhoff Akt.-Ges.: *See—*
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Rhoades, John M., to General Electric Company. Automatic tool setting sensor. 3,704,641, 12-5-72, Cl. 82-14.00r.
Rhoades, John M.; and Cooper, Carroll C., to General Electric Company. Automatic servo motor control for lathes providing SFM and chip thickness control. 3,705,339, 12-5-72, Cl. 318-571.000.
Rhoades, John W.; Register, James W., Jr.; and Millar, John D., to United States of America, Army, mesne. Fresh apricot flavor additive composition and method of enhancing the flavor of freeze-dehydrated apricots. 3,634,098, 1-11-72, Cl. 99-140.
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Rhoades, Lee A.; and Mallard, Manley T., to Rochester Corporation, The. Electrical cable. 3,681,514, 8-1-72, Cl. 174-108.000.
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Rhodes, Charles F., Jr., to Sun Oil Company (Delaware). Control system. 3,633,615, 1-11-72, Cl. 137-554.
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Rhodes, Gerald P.; Frankowski, Jerome J.; and Bier, Kenneth C., to Holley Carburetor Company. Holley fuel pump. 3,658,444, 4-25-72, Cl. 417-423.
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Ribner, Morris; and Keough, Timothy J., to International Telephone and Telegraph Corporation. Circuits for supplying supervisory tones, tuning signals, lamp blinking control and redundant circuit switchover for an epabx. 3,637,948, 1-25-72, Cl. 179-84.
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Ricci, Roy J.: *See—*
Staffin, Robert; Ricci, Roy J.; and Juels, Ronald J., 3,676,647.
Ricci, Vero; and Colalillo, Edward P. Traveling cylinder printer with platen roller driven in closed path. 3,673,960, 7-4-72, Cl. 101-269.000.
Ricci, Vincent C.; and Simon, William F., to Sperry Rand Corporation. Split output for a logic gate. 3,681,615, 8-1-72, Cl. 307-214.000.
Ricciardi, Giuseppe; and Sandrone, Bruno, to Olivetti, Ing., C., & C., S.p.A. Carriage shifting arrangement for teleprinters and terminal apparatus in general. 3,646,268, 2-29-72, Cl. 178-25.
Riccio, Victor D. S. Remote controlled mirror. 3,687,525, 8-29-72, Cl. 350-289.000.
Riccitiello, Michael; and Kreitmayer, Harry A., to Spaulding Fibre Company, Inc. Method of preventing measling when making epoxy laminates. 3,660,199, 5-2-72, Cl. 156-306.
Ricco, Silvio: *See—*
Steinberg, Adalberto; and Ricco, Silvio, 3,672,007.
Rice Barton Corporation: *See—*
Bassett, Kirk W.; and Ford, Frank P., 3,679,524.
Rice, Clifford M. Anti-slip footpiece. 3,631,614, 1-4-72, Cl. 36-61.
Rice, Dale E., to Cardwell Oil Corporation Ltd. (N.P.L.), mesne. Cordless telephone system. 3,644,681, 2-22-72, Cl. 179-41.
Rice, David E.: *See—*
Loudas, Basil L.; and Rice, David E., 3,647,891.
Rice, Dennis D.: *See—*
Edwards, Louis J.; Hopkins, Bruce D.; and Rice, Dennis D., 3,680,963.
Rice, Dennis Keith: *See—*
Koechner, Walter; Rice, Dennis Keith; and De Shazer, Larry Grant, 3,702,974.
Rice, Doris Marvin, to Jefferson Chemical Company, Inc. Molded flexible polyurethane foam. 3,632,707, 1-4-72, Cl. 264-54.
Rice, Edward J., to TRW Inc. Method for fabricating semiconductor junctions. 3,676,230, 7-11-72, Cl. 148-187.000.
Rice, Edwin E.: *See—*
Geen, Henry C.; and Rice, Edwin E., 3,645,521.
Rice, Edwin E., to Chemotronics, Incorporated. Apparatus for rapid high energy removal of superfluous projections. 3,666,252, 5-30-72, Cl. 266-2.00r.
Rice, Edwin Eugene; and Franklin, Charles Henry, to Chemotronics International, Inc. Method for the removal of unwanted portions of an article. 3,676,963, 7-18-72, Cl. 51-320.000.
Rice, Edwin Eugene; and Franklin, Charles Henry, to Chemotronics International Inc. Method for the removal of unwanted portions of an article by spraying with high velocity dry ice particles. 3,702,519, 11-14-72, Cl. 51-310.000.
Rice, George A.: *See—*
Girard, Roland T.; and Rice, George A., 3,677,796.
Girard, Roland T.; and Rice, George A., 3,703,390.
Rice, George L. Tie rack. 3,653,515, 4-4-72, Cl. 211-13.
Rice, Graham; Whitby, Herbert C.; and Dunn, Peter Douglas, to United Kingdom Atomic Energy Authority. Electric fluid heater. 3,688,083, 8-29-72, Cl. 219-381.000.
Rice, Hal H.; and Dudash, James J., to General Motors Corporation. Stabilized nickel oxide seal. 3,646,993, 3-7-72, Cl. 165-9.
Rice, Harold D.; and Leach, Sam L., to Pid Corporation, mesne. Apparatus for making pictorial parallax panoramagram units. 3,635,778, 1-18-72, Cl. 156-500.
Rice, Harold D. Line transfer apparatus. 3,679,151, 7-25-72, Cl. 242-85.000.
Rice, Herbert L.; Cizek, Arthur; and Thaemar, Marvin O., to Milchem Incorporated. Acrylic composition for water treatment and process for making same. 3,665,035, 5-23-72, Cl. 260-537.
Rice, Ivan G., to De Laval Turbine Inc. Combined gas-steam turbine power plant. 3,703,807, 11-28-72, Cl. 60-39.18b.
Rice, James S., to Industrial Nucleonics Corporation. Noninteracting control of moisture and fiber content of fibrous sheet during manufacture. 3,676,295, 7-11-72, Cl. 162-198.000.
Rice, James S., to Industrial Nucleonics Corporation. Anticipatory control of headbox slice opening in a paper machine. 3,703,436, 11-21-72, Cl. 162-198.000.
Rice, John A.; and Stewart, Mary J. Sulfophenoxy malonate compounds. 3,700,721, 10-24-72, Cl. 260-470.000.
Rice, Monroe C. Wheeled carrier for chain saw. 3,675,689, 7-11-72, Cl. 143-32.00n.
Rice, Orval Leroy, to Parker-Hannifin Corporation. Directional control valve. 3,642,027, 2-15-72, Cl. 137-596.2.
Rice, Patricia A., to American Crucible Products Company, The. Apparatus to protect a switch chamber against moisture. 3,683,600, 8-15-72, Cl. 55-385.000.
Rice, Rex: *See—*
Smith, William R.; and Rice, Rex, 3,643,227.
Smith, William R.; Rice, Rex; and Mazor, Stanley, 3,647,348.
Rice, Rex; and Smith, William R., to Fairchild Camera and Instrument Corporation. Memory control system. 3,643,225, 2-15-72, Cl. 340-172.5.
Rice, Rip G.: *See—*
Frank, Victor S.; Stahly, Eldon E.; and Rice, Rip G., 3,676,311.
Rice, Robert C. Scaffold structure. 3,684,055, 8-15-72, Cl. 182-17.000.
Rice, Roger A.: *See—*
Campbell, Trevar G.; Larson, Robert V.; Stahl, Sebald K.; Liess, Richard K.; and Rice, Roger A., 3,653,132.
Rice, Roy W.: *See—*
United States of America, National Aeronautics and Space Administration, 3,698,848.
Rice, Stanley B., Jr., to Texas Instruments, Incorporated. Preparation of welding surfaces on semiconductors. 3,647,534, 3-7-72, Cl. 117-212.
Rice, Walter W., Jr.: *See—*
Jensen, Reed J.; and Rice, Walter W., Jr., 3,662,280.
Rice, William Yates, Jr.: *See—*
Roberts, Donald Leroy; and Rice, William Yates, Jr., 3,681,428.
Rich, Andrew V.; and Zarlengo, Eugene F. Ditch cleaning attachment for high lift material handling equipment. 3,653,524, 4-4-72, Cl. 214-145.
Rich, Archie G. Anti-litter peanut sales bag. 3,693,868, 9-26-72, Cl. 229-56.000.
Rich, Beldon L., to Parker-Hannifin Corporation. Reversing switch actuator for fluid motor. 3,661,053, 5-9-72, Cl. 91-275.
Rich, Blaine B.; and Brown, Rex M., to Thiokol Chemical Corporation. Multi-way snow grooming apparatus for ski slopes. 3,685,404, 8-22-72, Cl. 94-44.000.
Rich, Edward; and McLeod, Norman H., to United States of America, National Aeronautics and Space Administration. Bacterial contamination monitor. 3,666,631, 5-30-72, Cl. 195-127.000.
Rich, Elvis; and Von Rosenberg, Edgar L., to Esso Production Research Company. Artificial lift system. 3,653,717, 4-4-72, Cl. 299-5.
Rich, Everett W. Wheeled toy. 3,669,468, 6-13-72, Cl. 280-267.000.
Rich, George Joseph: *See—*
Hobden, Maurice Vernon; Rich, George Joseph; and Robertson, Daniel Stewart, 3,670,186.
Rich, Harold T.: *See—*
Duron, Paul P.; and Rich, Harold T., 3,670,516.
Rich, James L.; and Weintraub, Marvin H., to Ford Motor Company. Friction material additives for improved performance. 3,647,744, 3-7-72, Cl. 260-38.
Rich, John, Enterprises, Inc.: *See—*
Walker, Grant W.; and Ford, Duane B., 3,680,662.
Rich, John Parker; and Carlsmith, Lawrence Allan, to Improved Machinery, Inc. Apparatus and methods of continuous digesting. 3,700,548, 10-24-72, Cl. 162-17.000.
Rich, Joseph A., to General Electric Company. Series double break rod array vacuum switch. 3,643,047, 2-15-72, Cl. 200-144.
Rich, Joseph A., to General Electric Company. Periodic electrode structure for vacuum gap devices. 3,679,474, 7-25-72, Cl. 313-217.000.
Rich, Joseph L. Apparatus for fabricating plastic cushioning an insulating material. 3,703,430, 11-21-72, Cl. 156-497.000.
Rich, Leonard G., to Gerber Scientific Instrument Company, The. Damping apparatus for a linear step motor having two translational degrees of freedom. 3,656,014, 4-11-72, Cl. 310-913.
Rich Manufacturing Company of California, mesne: *See—*
Page, Edward, 3,677,282.
Rich, Maurice E., Jr., to Troxel Manufacturing Company. Saddle support means. 3,643,995, 2-22-72, Cl. 297-209.
Rich, Theodore A., to Environment-One Corporation. Variable rate continuous flow condensation nuclei meter having adjustable expansion period and improved gain. 3,632,210, 1-4-72, Cl. 356-37.
Rich, Theodore A., to Environmental-One Corporation. Self adjusting-short pulse detecting and amplifying circuit. 3,664,740, 5-23-72, Cl. 356-37.000.
Rich, Theodore A., to Environment-One Corporation. Mixing type condensation nuclei meter. 3,694,085, 9-26-72, Cl. 356-37.000.
Rich Tool & Die Company: *See—*
Richard, Yvon L.; and Wojchlwski, Charles, 3,698,273.
Richard, Connie E.: *See—*
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Richard, David J., to United States of America, Air Force. Tunable omidirectional antenna. 3,680,127, 7-25-72, Cl. 343-108.000.
Richard, Donald F., to American Micro-Systems, Inc. Receptacle for connecting semiconductors to a circuit board. 3,663,921, 5-16-72, Cl. 339-17.
Richard, Eugene D.: *See—*
Richard, George E.; and Richard, Eugene D., 3,693,195.
Richard, Eugene D. Aquarium with improved optical qualities. 3,696,789, 10-10-72, Cl. 119-5.000.
Richard, George E.; and Richard, Eugene D. Apparatus for surf generator. 3,693,195, 9-26-72, Cl. 4-172.160.

Richard, Georges A. L.; Cognet, Jean-Marie F.; Heullant, Jean; and Vallier, Jean-Pierre, to U.S. Philips Corporation. Fungicidal method and composition. 3,662,067, 5-9-72, Cl. 424-245.

Richard, Gilbert; and Moronval, Gerard, to Automobiles Peugeot and Regie Nationale des Usines Renault. Device for starting and stopping a diesel engine. 3,675,033, 7-4-72, Cl. 290-38.000.

Richard, Gordon L.: *See—*
Blosser, Robert W.; and Richard, Gordon L., 3,662,148.

Richard, Henry P., to Spalding, A. G., & Bros. Inc. Method of removing molding flash and the like from the surface of golf balls. 3,640,028, 2-8-72, Cl. 51-289.

Richard, James A.: *See—*
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Richard, Kenneth L.: *See—*
Eaton, John L., Jr.; Richard, Kenneth L.; and Schwartz, Walter M., Jr., 3,669,004.

Richard, Louis A.: *See—*
Mowry, Harry E.; Carricato, Guy V.; and Richard, Louis A., 3,663,011.

Richard, Norman; Jean, Robert; Huh, William; and Patton, Willard Thomas, to RCA Corporation. Flexible and slidable waveguide feed system for a radiating horn antenna. 3,698,000, 10-10-72, Cl. 343-772.000.

Richard, Patrick L.: *See—*
Patrick, Robert L.; and Richard, Patrick L., 3,706,974.

Richard, Pierre, to Jap S.A. Method and tool for making a watch dial with raised symbols. 3,646,653, 3-7-72, Cl. 29-177.

Richard, William R., Jr.: *See—*
Johnson, John H.; and Richard, William R., Jr., 3,655,593.

Richard, Yvon L.; and Wojchlwski, Charles, to Rich Tool & Die Company. Automatic punch press for flexible metal band. 3,698,273, 10-17-72, Cl. 83-183.000.

Richards, Bernadine J.; and O'Neil, Bernadette T. Article of clothing. 3,633,215, 1-11-72, Cl. 2-105.

Richards, Bernardine J.; and O'Neil, Bernadette T. Article of clothing. 3,698,015, 10-17-72, Cl. 2-105.000.

Richards, Brian John, to Siebe Gorman & Company Limited. Closed circuit breathing apparatus. 3,677,267, 7-18-72, Cl. 128-145.800.

Richards, Charles D. Sunken vessel locator. 3,686,656, 8-22-72, Cl. 340-240.000.

Richards, David: *See—*
Long, Jack D.; and Richards, David, 3,663,353.

Richards, David D.: *See—*
Roeseler, Mangin E.; and Richards, David D., 3,691,639.

Richards, Dennis H. Camping trailers. 3,697,122, 10-10-72, Cl. 296-23.00r.

Richards, Elmer A., to Caterpillar Tractor Company. Self-modulated input clutch for vehicle drive transmissions. 3,667,583, 6-6-72, Cl. 192-105.00a.

Richards, Erwin H.: *See—*
Johnson, Robert Allen; Richards, Erwin H.; and Watson, Roy H. A., 3,649,081.

Richards, Frank A. Oil skimmer. 3,700,108, 10-24-72, Cl. 210-242.000.

Richards, George B. Fluid amplifiers. 3,703,907, 11-28-72, Cl. 137-81.500.

Richards, George Gilman: *See—*
Bressler, Robert Lee; Alexiev, Iwan Rangelov; Troxell, Frank Vollmer; and Richards, George Gilman, 3,657,595.

Richards, Giles J.: *See—*
Anger, Ernest G.; Richards, Giles J.; Bloodgood, John F.; and Geiger, Roy J., 3,686,556.

Richards, Harold R., to Canadian Patents and Development Limited. Shrinkproofing and improvement in stretch characteristics of wool. 3,697,219, 10-10-72, Cl. 8-127.600.

Richards, James V., to American Optical Corporation. Photomicrographic exposure meter. 3,658,431, 4-25-72, Cl. 356-227.

Richards, Joe M., to Nupar Manufacturing Co., Inc. Catalytic heater. 3,662,737, 5-16-72, Cl. 126-92.

Richards, John Charles Shenstone: *See—*
Lees, Alexander; Richards, John Charles Shenstone; and Jason, Alfred Charles, 3,665,302.

Richards, John F.: *See—*
Eagen, John F.; and Richards, John F., 3,681,230.

Richards, John F.; and Terrell, Walter L., Jr., to Esso Research and Engineering Company. Baffle construction for flare seal drums. 3,691,732, 9-19-72, Cl. 55-227.000.

Richards, Leo O.; and Parsons, Walter E. System for automatically and manually testing lines for determining of information can be accurately transmitted thereon. 3,665,303, 5-23-72, Cl. 324-73.000.

Richards Manufacturing Company: *See—*
Brower, James P., 3,695,256.
Garnett, Robert E., 3,706,310.
Treace, Harry T., 3,694,831.

Richards, Merfyn; and Munden, Jeffery Edward, to Beecham Group Limited. Antibiotic production using a strain of aspergillus condidus. 3,632,477, 1-4-72, Cl. 195-81.

Richards, Philip C., to Bell Telephone Laboratories, Incorporated. Numerical conversion. 3,680,081, 7-25-72, Cl. 340-347.0dd.

Richards, Raymond S.: *See—*
Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfaender, Lawrence V., 3,654,680.
Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfaender, Lawrence V., 3,684,468.

Richards, Robert Doughty. Electrolytic facsimile recording process. 3,632,484, 1-4-72, Cl. 204-2.

Richards, Robert R.: *See—*
Sterns, Robert B.; and Richards, Robert R., 3,646,418.

Richards, Samuel E., Jr., to Communications Research Company. Conductor identification in multi-conductor means. 3,644,687, 2-22-72, Cl. 179-175.3.

Richards, Warren, to Pharma Plastics, Inc. Bottle cap. 3,658,203, 4-25-72, Cl. 215-38.

Richards, William D.: *See—*
Harris, George J.; and Richards, William D., 3,681,774.

Richards, William D., to American Optical Corporation. Magnetic belt recorder head adjustment. 3,678,210, 7-18-72, Cl. 179-100.2ca.

Richards, William R., to Textron, Inc. Snowmobile ski construction. 3,643,979, 2-22-72, Cl. 280-28.

Richards-Merrell, Inc.: *See—*
Albrecht, William L.; Fleming, Robert W.; and Horgan, Stephen W., 3,673,191.

Richardson, A. T., & Sons Proprietary Limited: *See—*
Stern, Lionel; and Hadaway, Bernard Milton, 3,635,063.

Richardson, Alfred W. Electromagnetic energy dosimeter. 3,639,841, 2-1-72, Cl. 325-363.

Richardson, Arthur W.: *See—*
Birnbaum, Manfred E.; Braytenbah, Andrew S.; and Richardson, Arthur W., 3,643,437.

Richardson, Barry A.: *See—*
Merriman, Horace B.; Collier, William A. H.; and Richardson, Barry A., 3,683,667.

Richardson, Barry Anthony, to Wickman Machine Tool Sales Limited. Presses. 3,661,008, 5-9-72, Cl. 72-451.

Richardson, Brian: *See—*
Porter, Kenneth; and Richardson, Brian, 3,674,744.

Richardson, Charles D., to Richardson Service, Inc. Method and apparatus for fiberizing molten mineral materials. 3,671,210, 6-20-72, Cl. 65-5.000.

Richardson, Charles Delton; Corsentino, Robert John, Jr.; and Gould, Oliver Maxwell, to Susquehanna Corporation, The. Process and apparatus for melting slag. 3,658,307, 4-25-72, Cl. 263-27.

Richardson Chemical Cleaning Service, Inc.: *See—*
Schoenbeck, Delbert L.; and Kincaid, Reece, 3,667,487.

Richardson, Company, The: *See—*
Alsberg, Henry, 3,697,494.
Kmet, Thomas J.; and Loboda, Jon A., 3,704,321.
Lombardi, Louis J.; Coyne, Roy J.; and Green, Charles E., 3,681,474.
Mocas, Verlin A., 3,671,325.
Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., 3,632,524.
Muzyczko, Thaddeus M.; Shore, Samuel; and Loboda, Jon A., 3,687,870.
Muzyczko, Thaddeus M.; Frederiksen, Ronald A.; and York, David L., 3,690,880.
Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., 3,705,106.
Noone, Thomas M., 3,674,547.
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Testolin, Reno J., 3,643,379.
Testolin, Reno J., 3,701,222.
Tirpak, Michael R.; and Rendleman, Harold A., 3,681,305.

Richardson, Darwin W., to Western Company of North America, The. Removal of scale from surfaces. 3,684,720, 8-15-72, Cl. 252-86.000.

Richardson, Dean E.; Peterson, Adolph A., III; and Brady, Harold P., Jr., to Union Carbide Corporation. Vinyl chloride polymers and method of preparing same. 3,701,742, 10-31-72, Cl. 260-17.00r.

Richardson, Donald: *See—*
Kaufman, Robert H.; and Richardson, Donald, 3,667,995.

Richardson, Donald W.; Roscoe, Stanley N.; and Streeter, Edward, to Hughes Aircraft Company. Navigation director system. 3,652,836, 3-28-72, Cl. 235-150.26.

Richardson, Dora Nellie: *See—*
Landquist, Justus Kenneth; and Richardson, Dora Nellie, 3,637,856.

Richardson, Dora Nellie; Walpole, Arthur Leonard; and Paget, George Edward, to Imperial Chemical Industries Limited. Modification of endocrine status with hydrazine derivatives. 3,700,777, 10-24-72, Cl. 424-323.000.

Richardson, Douglas K.; and Johnson, John G., to Westinghouse Electric Corporation. Centrifugal refrigerant gas compressor capacity control. 3,635,580, 1-18-72, Cl. 415-150.

Richardson, Douglas K., to Westinghouse Electric Corporation. Refrigeration system with multiple centrifugal compressors and load balancing control. 3,648,479, 3-14-72, Cl. 62-217.
Richardson, Edwin A.: *See—*
Coles, Roy D.; and Richardson, Edwin A., 3,669,188.
Richardson, Edwin A.; and Ueber, Russell C., to Shell Oil Company. Selectively reducing the permeability of a thief zone by electroless metal plating. 3,672,449, 6-27-72, Cl. 166-292.000.
Richardson, Edwin A., to Shell Oil Company. Electroless metal plating techniques for consolidation of incompetent formations. 3,685,582, 8-22-72, Cl. 166-292.000.
Richardson, Edwin A.; and Barnes, Herbert W., to Shell Oil Company. Fracture propping. 3,701,383, 10-31-72, Cl. 166-281.000.
Richardson, Elby Leon: *See—*
Hattori, Kiyoshi; and Richardson, Elby Leon, 3,639,331.
Richardson, Frederick Denys, 1/3 to Metallurgie Hoboken and 1/3 to RST International Metals Limited. Apparatus for measuring in a continuous manner the oxygen in a molten metal. 3,661,749, 5-9-72, Cl. 204-195.00s.
Richardson, Gayle Darwin. Eze-Wire and cable puller. 3,698,059, 10-17-72, Cl. 29-203.00h.
Richardson, George W.: *See—*
Kane, Hugh; and Richardson, George W., 3,663,908.
Richardson, Harold; and Newman, Bruce D., to Hovermarine (Canada) Limited. Gas-cushion vehicle. 3,700,064, 10-24-72, Cl. 180-119.000.
Richardson, Harry L.: *See—*
Avena, Salvatore; and Richardson, Harry L., 3,668,940.
Richardson, Harry L.; and Craig, Robert C., to Chemical Construction Corporation. Electrostatic precipitator. 3,668,836, 6-13-72, Cl. 55-131.000.
Richardson, Howe, Scale Company: *See—*
Godwin, Gilbert Allan; and Pratt, Chapin A., 3,659,665.
Pratt, Chapin A.; and Godwin, Gilbert A., 3,692,129.
Richardson, Hugh H., to General Electric Company. Method and apparatus for making electrical connections. 3,701,877, 10-31-72, Cl. 219-97.000.
Richardson, Jacob C.: *See—*
Neal, William J.; Richardson, Jacob C.; and Vining, Thomas F., 3,658,149.
Richardson, James D., to Amoco Production Company. System for retrieving anchor chains. 3,654,649, 4-11-72, Cl. 9-9.
Richardson, James E.; and Sherman, Lawrence M., to Cambridge Research and Development Group. Tablet dispenser. 3,651,927, 3-28-72, Cl. 206-42.
Richardson, James G.: *See—*
Gamer, Nicholas T.; and Richardson, James G., 3,702,763.
Richardson, James H., Jr., to CF & I Steel Corporation. Wire pay-off apparatus. 3,664,601, 5-23-72, Cl. 242-129.
Richardson, James Ivor, to Harris-Intertype Corporation. Register indicating system. 3,653,322, 4-4-72, Cl. 101-248.
Richardson, James R.; and Richardson, Robert E. Laminated archery bow. 3,659,577, 5-2-72, Cl. 124-24.
Richardson, Jesse L., to Federal Operating Co. Musical instrument water valve. 3,660,588, 5-2-72, Cl. 84-397.
Richardson, John H. Elastic pull type exerciser. 3,677,543, 7-18-72, Cl. 272-82.000.
Richardson, John M.: *See—*
Myer, Jon H.; O'Mera, Thomas R.; and Richardson, John M., 3,700,907.
Richardson, John M., to Hughes Aircraft Company. Device for producing identifiable sine and cosine (fourier) transforms of input signals by means of noncoherent optics. 3,669,528, 6-13-72, Cl. 350-205.000.
Richardson, John W. Safety valve having back pressure compensator. 3,702,142, 11-7-72, Cl. 137-472.000.
Richardson, Larry E.: *See—*
Homeier, Ronald F.; and Richardson, Larry E., 3,651,924.
Richardson, Lonnie J., to Oak Electro/Netics Corporation. Flexible printed circuit forming contact surface around stator of rotary switch. 3,683,132, 8-8-72, Cl. 200-11.00r.
Richardson, Melvin K., to Clemson University. Harvester. 3,665,689, 5-30-72, Cl. 56-27.500.
Richardson, Michael Alexander: *See—*
Rees, Donald Frank; Garnett, John Baron; and Richardson, Michael Alexander, 3,640,076.
Richardson, Philip, to Reyrolle Parsons Limited. Dynamo-electric machines. 3,649,860, 3-14-72, Cl. 310-260.
Richardson, Philip, to Reyrolle Parsons Limited. Dynamo-electric machines. 3,651,357, 3-21-72, Cl. 310-256.
Richardson, Raymond M. Frequency sensitive suspension system fluid damper. 3,702,647, 11-14-72, Cl. 188-283.000.
Richardson, Robert E.: *See—*
Richardson, James R.; and Richardson, Robert E., 3,659,577.
Richardson, Robert J.: *See—*
Arfaras, George; Brunelle, Reni J.; and Richardson, Robert J., 3,632,161.
Richardson, Robert W.: *See—*
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Richardson, Robert W., to Eaton Yale & Towne, Inc. Vehicle safety device. 3,632,132, 1-4-72, Cl. 280-150.
Richardson, Rolland A., to Pacific Press & Shear Corporation. Ram attitude control system and valve assembly therefor. 3,659,498, 5-2-72, Cl. 91-171.
Richardson, Ronald D.: *See—*
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Richardson Service, Inc.: *See—*
Richardson, Charles D., 3,671,210.
Richardson, Stephen M.; and Grenda, Edward P. Combination card hold down and audible indicator-keytape. 3,678,880, 7-25-72, Cl. 116-67.000.
Richardson, Thomas; and Hustad, Gerald O., to Wisconsin Alumni Research Foundation. Polyurethane foams and composition. 3,658,731, 4-25-72, Cl. 260-2.5.
Richardson, Thomas F., Jr. Package and applicator unit. 3,635,567, 1-18-72, Cl. 401-132.
Richardson, Thomas F., Jr. Photographic method of design synthesis and evaluation. 3,694,205, 9-26-72, Cl. 96-27.00r.
Richardson, Thomas L.: *See—*
McPherson, Frank H.; Lownes, Irvin S., Jr.; and Richardson, Thomas L., 3,706,074.
Richardson, Vernon C. H. Apparatus for separating water and particulate material from flowing gases. 3,633,342, 1-11-72, Cl. 55-228.
Richardson, Wallace L.; Kautsky, George J.; and Barusch, Maurice R., to Chevron Research Company. Antiknock tetramethyl lead concentrate. 3,674,826, 7-4-72, Cl. 260-437.00s.
Richardson, William B.: *See—*
Gelb, John; Merwin, Eugene M.; and Richardson, William B., 3,643,334.
Richardson, William S., to Falk Corporation, The. Pinion construction. 3,682,015, 8-8-72, Cl. 74-377.000.
Richardson-Merrell, Inc.: *See—*
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Binon, Fernand; and Beiler, Jay Morton, 3,678,063.
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Carr, Albert A.; and Meyer, Donald R., 3,647,797.
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Richey, Clifford C., to Richey's Incorporated. Article-support shoulder bracket. 3,682,358, 8-8-72, Cl. 224-5.00r.
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Richman, Peter D. Electric battery comprising a fuel cell hydrogen generator and heat exchanger. 3,669,751, 6-13-72, Cl. 136-86.
Richman, Peter L. Electrical measuring systems. 3,633,116, 1-4-72, Cl. 328-144.
Richman, Peter L. Harmonic-insensitive A.C.-to-D.C. converter. 3,641,420, 2-8-72, Cl. 321-9.
Richman, Russell B., to United States of America, Interior. Process and apparatus for determining crevice corrosion by polarization techniques. 3,633,099, 1-4-72, Cl. 324-71.
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Richmond, Albert R., to Richmond Manufacturing Company, The. Boring auger for horizontal earth boring machine. 3,693,734, 9-26-72, Cl. 175-122.000.
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Richter, Hans H., to Leesona Corporation. Twister and method of twisting. 3,695,020, 10-3-72, Cl. 57-77.400.
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Richter, Henry L., to Richter, Henry L., Dr., Corporation. Radiation dosimeter using gas of greater electron affinity and molecular moss than air. 3,665,197, 5-23-72, Cl. 250-83.3.
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Richter, John C. F. C., to Kamyr Aktiebolag. Device for feeding dense cellulosic pulp into a closed container. 3,643,878, 2-22-72, Cl. 241-48.
Richter, John Edward; and Tiura, George Olavi, to AgMac, Inc. Windrow leaf scavenger. 3,693,331, 9-26-72, Cl. 56-13.200.
Richter, John F., to Varian Associates. Arc lamp having an acoustical mode absorber. 3,633,060, 1-4-72, Cl. 313-269.
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Richter, Robert C.; and Srinath, Shimoga K., to Cincinnati Milacron Inc. Tuned damping means for increasing the minimum dynamic stiffness of a spindle system. 3,643,546, 2-22-72, Cl. 90-11.
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Richter, Robert K.; and Shkredka, Jurek, to Kaiser Aluminum & Chemical Corporation. Cladding mold system. 3,701,380, 10-31-72, Cl. 164-334.000.
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Richter, Sidney B.; and Krenzer, John, to Velsicol Chemical Corporation. N-Carbamoyl-o-alkenoyl-n-phenylhydroxyl-amines as herbicides. 3,641,143, 2-8-72, Cl. 260-545.
Richter, Sidney B.; and Kaplan, Ephraim H., to Velsicol Chemical Corporation. O(S)-(2-Alkoxyimino-2-alkoxyethyl) (mono or dithio) phosphinates. 3,641,220, 2-8-72, Cl. 260-944.
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Richter, Sidney B.; and Mayer, David P., to Velsicol Chemical Corporation. Dialkylamino-benzhydryl dicarboxylates. 3,655,731, 4-11-72, Cl. 260-485.
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Rick, Frank G. Chamfer cutter. 3,641,874, 2-15-72, Cl. 90-38.
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Rick, Lawrence B. Traveling cylinder printer with tilting carriage retained in a slot in the base. 3,654,858, 4-11-72, Cl. 101-269.
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Rigby, Colin William; and Stark, Bernard Peter, to Ciba-Geigy AG. Solid polymers from oxazol-5-one and a bis-maleimide. 3,694,417, 9-26-72, Cl. 260-78.0ua.
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Riggins, Oral L., to Westinghouse Electric Corporation. Line traps for power line carrier current systems. 3,696,315, 10-3-72, Cl. 336-192.000.
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Riggs, Emmet D., to Atlantic Richfield Company. Seismic holography. 3,691,517, 9-12-72, Cl. 340-15.5cp.
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Riggs, John Perry, to Celanese Corporation. Acrylic fiber stabilization catalyzed by Co(II) and Ce(III) cations. 3,656,882, 4-18-72, Cl. 8-115.5.
Riggs, John Perry, to Celanese Corporation. Process for the stabilization of acrylic fibers. 3,656,883, 4-18-72, Cl. 8-115.5.
Riggs, Milton D., to Kaiser Aluminum & Chemical Corporation. Conveyor system for a container. 3,666,082, 5-30-72, Cl. 198-130.000.
Riggs, Robert F., to Sperry Rand Corporation. Radar collision avoidance indicator. 3,670,330, 6-13-72, Cl. 343-11.00r.
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Riley, John A., to Westinghouse Electric Corporation. Bi-directional signal detector with input/output isolation. 3,699,442, 10-17-72, Cl. 324-98.000.
Riley, John E., to General Electric Company. Manual/automatic station for use in process control systems. 3,662,275, 5-9-72, Cl. 330-1.
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Riley, Lloyd D., to Filper Corporation. Packaging method and machine. 3,650,083, 3-21-72, Cl. 53-35.
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Rizzo, Anthony R., to AFCO Products, Inc. Coating process. 3,681,121, 81-72, Cl. 117-119.400.
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Robba, William A.; and Conabee, Earl E., to Pfizer Inc. Composite carbon insert for gas shielded welding torch nozzle. 3,698,646, 10-17-72, Cl. 239-591.000.
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Robbins, Samuel B., to General Motors Corporation. Power window reversing unit. 3,675,101, 7-4-72, Cl. 318-266.000.
Robbins, Vernon L. Line plug with retractable grounding pin. 3,685,000, 8-15-72, Cl. 339-14.00r.
Robbins, Wayne Otto, to Tubular Structures Corporation. Concrete pump. 3,639,086, 2-1-72, Cl. 417-454.
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Roberts, Bernard; and Rauhut, Michael McKay, to American Cyanamid Company. Method of controlling the lifetime of oxalate ester chemiluminescent reactions. 3,691,085, 9-12-72, Cl. 252-188.300.
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Roberts, Carlton E.; Rahn, Hilton N., Jr.; and Reid, Walter E., Jr., to Bethlehem Steel Corporation. Method for producing double-reduced container stock having good resistance to corrosion and product produced thereby. 3,700,504, 10-24-72, Cl. 148-2.000.
Roberts, Charles E., to United Merchants and Manufacturers, Inc. Apparatus and method for the production of fancy yarns, such as chenille. 3,645,078, 2-29-72, Cl. 57-24.
Roberts, Charles W., to Goodyear Tire & Rubber Company, The. Asymmetric tire. 3,656,532, 4-18-72, Cl. 152-353.000.
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Roberts, Earl J.; Brannan, Mary Ann F.; and Rowland, Stanley P., to United States of America, Agriculture. Tris (2-chloroethyl) phosphoramide used as a crosslinking agent for cellulosic compositions. 3,702,232, 11-7-72, Cl. 8-116.00p.
Roberts, Edward S., to Treadwell Corporation. Sulfur dioxide conversion. 3,671,194, 6-20-72, Cl. 23-176.000.
Roberts, Eric A., to Texaco Inc. Safety apparatus for mammoth tankers. 3,681,657, 8-1-72, Cl. 317-2.00d.
Roberts, Ernest Roth, to Aerojet-General Corporation. Dimpled heat transfer walls for distillation apparatus. 3,664,928, 5-23-72, Cl. 202-236.
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Roberts, John T.; and Wing, Ralph L. Packaging apparatus, method and bags. 3,698,547, 10-17-72, Cl. 206-57.000.
Roberts, John Tudor, to Ferranti, Limited. Assemblies of semiconductor devices having mounting pillars as circuit connections. 3,680,206, 8-1-72, Cl. 29-580.000.
Roberts, Karl Hutchenson: *See—*
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Roberts, Marvin E., to Locking Systems, Inc. Settable key and coding mechanism therefor. 3,668,909, 6-13-72, Cl. 70-411.000.
Roberts, Maurice. Electric storage batteries. 3,684,582, 8-15-72, Cl. 136-166.000.
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Roberts, Miron J., to Kraftco Corporation. Making American cheese from heat treated milk. 3,650,768, 3-21-72, Cl. 99-116.
Roberts, Paul C., to United States of America, Navy. Propeller type velocity indicator. 3,665,764, 5-30-72, Cl. 73-231.000.
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Roberts, Reginald F., Jr., to Dow Chemical Company, The. Preparation of catalytically active halides of titanium by reacting titanium tetrahalides with magnesium amalgam. 3,658,723, 4-25-72, Cl. 252-441.
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Roberts, Richard W., to Borg-Warner Corporation. Image positioning means for audiovisual educational apparatus. 3,654,707, 4-11-72, Cl. 35-9.00a.
Roberts, Richard Walter, to Dixon-Bate, B., Limited. Strap tensioning devices. 3,668,743, 6-13-72, Cl. 24-68.0ct.
Roberts, Richardson S., Jr., to Ultronic Systems Corporation. Video display apparatus. 3,643,252, 2-15-72, Cl. 340-324.
Roberts, Robert, to Imperial Chemical Industries Limited. Manufacture of 3,5-dichloro-2,6-difluoro-4-hydrocypyridine and salts thereof. 3,654,292, 4-4-72, Cl. 260-297.
Roberts, Robert, to Fluorodynamics, Inc. Method for the in situ covering of large diameter process rolls with heat shrinkable films of fluorinated ethylene polymers and the like. 3,677,845, 7-18-72, Cl. 156-3.000.
Roberts, Robert, to Fluorodynamics, Inc. Sealing apparatus for manufacturing roller covering, vessel liners and the like. 3,707,428, 12-26-72, Cl. 156-583.000.
Roberts, Robert D., to Houdaille Industries, Inc. Direct current timer. 3,652,873, 3-28-72, Cl. 307-252.
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Roberts, Robert J. Dynamic spot welder. 3,655,938, 4-11-72, Cl. 219-87.
Roberts, Robert J. Electrically energized petroleum de-emulsifier. 3,674,677, 7-4-72, Cl. 204-302.000.
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Robertson, Alan L.; and Rady-Pentek, Arthur A., to BASF Corporation. Insulated masonry building wall construction. 3,638,381, 2-1-72, Cl. 52-309.
Robertson, Alexander, to General Instrument Corporation. Preset tuner with improved tuning linkage. 3,706,232, 12-19-72, Cl. 74-10.600.
Robertson, Arthur J., to Lockheed Aircraft Corporation. Integrated propulsion system. 3,658,279, 4-25-72, Cl. 244-53.
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Robertson, Jack R. Method of inserting a suprapubic catheter. 3,640,281, 2-8-72, Cl. 128-347.

Robertson, Jack R. Method of and apparatus for viewing the interior of the bladder through a suprapublic incision. 3,656,485, 4-18-72, Cl. 128-349.

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Robertson, James D., to Westinghouse Electric Corporation. Rolling mill control system. 3,651,676, 3-28-72, Cl. 72-12.

Robertson, James D., to Westinghouse Electric Corporation. Motor drive position movement profile calibration. 3,700,379, 10-24-72, Cl. 444-1.000.

Robertson, James L. Inherently stable tapered wing flaperon airplane. 3,659,810, 5-2-72, Cl. 244-76.00r.

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Robertson, Jerry E., to Minnesota Mining and Manufacturing Company. Quaternary fluorinated ammonium salts. 3,681,441, 8-1-72, Cl. 260-501.150.

Robertson, John A., to Mead Corporation, The. Apparatus and method for sorting particles and jet drop recording. 3,656,171, 4-11-72, Cl. 346-1.

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Robin, Michael; and Schulte, Sheldon R., to Ashland Oil & Refining Company. Triazine derivatives of thiobisphenols and process of preparation. 3,700,666, 10-24-72, Cl. 260-248.0cs.

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Robins, Janis, to Ashland Oil, Inc. Gaseous halo-sulfonic acid anhydride catalysts for curing furfuryl alcohols and furan resins. 3,639,654, 2-1-72, Cl. 260-37.
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Robins, Janis, to Ashland Oil, Inc. Cold box method. 3,702,316, 11-7-72, Cl. 260-38.000.
Robins, Morris J.; and Currie, Bruce L., to University of Utah. 3-Deazapyrimidine nucleosides and method of preparation thereof. 3,705,147, 12-5-72, Cl. 260-211.500.
Robins, Ray Mervyn, to AMP Incorporated. Method of applying sleeves to electrical connectors. 3,673,299, 6-27-72, Cl. 264-159.000.
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Robinson, Albert Sidney; Lawrenson, Jack; and Ormesher, Edward Russell. Method for temperature control of ionic electrode. 3,690,854, 9-12-72, Cl. 65-30.000.
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Robinson, Allan B., to Mobil Oil Corporation. Bag support assembly. 3,698,155, 10-17-72, Cl. 53-390.000.
Robinson, Arthur H., Jr., to Makrite, Inc. Unitary piercing punch device. 3,683,499, 8-15-72, Cl. 30-360.000.
Robinson, Bernie E., to Milwaukee Valve Company, Inc. Tank truck safety valve. 3,665,946, 5-30-72, Cl. 137-68.
Robinson, Brian; and Fillingham, Stephen Harvey, to I.W.S. Nominee Company Limited and Ciba Limited. Method of milling and resin treating keratinous fibers. 3,677,693, 7-18-72, Cl. 8-127.500.
Robinson, Bruce R., to Xerox Corporation. Method and apparatus for electrostatically classifying toner particles. 3,662,884, 5-16-72, Cl. 209-129.
Robinson, Charles. Cutting and/or creasing of sheet material. 3,645,155, 2-29-72, Cl. 83-663.
Robinson, Charles A., to American Home Products Corporation. Intermediates for preparing semi-synthetic penicillins and methods of production. 3,654,266, 4-4-72, Cl. 260-239.1.
Robinson, Charles A.; and Adams, Arthur C. Process for the preparation of sodium ampicillin. 3,669,957, 6-13-72, Cl. 260-239.100.
Robinson, Charles A., to American Home Products Corporation. Process for producing α-amino penicillin intermediates. 3,678,037, 7-18-72, Cl. 260-239.100.
Robinson, Charles C.; and Snitzer, Elias, to American Optical Corporation. Photochromic glass. 3,664,725, 5-23-72, Cl. 350-160.00p.
Robinson, Charles G., to Northwestern Steel and Wire Company. Apparatus for the continuous production of steel. 3,645,321, 2-29-72, Cl. 164-252.
Robinson, Charles L.; and Clynch, Frank, to Dresser Industries, Inc., mesne. Method of and apparatus for weakening ice for assisting an icebreaker. 3,632,172, 1-4-72, Cl. 299-13.
Robinson, Charles W.; Merklin, Kenneth E.; and Finlayson, Francis D., to Marcona Corporation. Method and apparatus for loading slurries into vessels and eliminating the suspending liquid. 3,693,795, 9-26-72, Cl. 210-83.000.
Robinson, Daniel E.; and Rubinstein, Solomon, to General Cable Corporation. Mounting bracket for switch or receptacle. 3,662,085, 5-9-72, Cl. 174-48.
Robinson, Daniel E.; and Rubinstein, Solomon, to General Cable Corporation. Electrical terminal structure with wedged conductor. 3,707,698, 12-26-72, Cl. 339-198.00r.
Robinson, David Phythian, to U.S. Philips Corporation. Methods of manufacturing semiconductor devices. 3,650,019, 3-21-72, Cl. 29-571.
Robinson, David Phythian; Beale, Julian Robert Anthony; Shannon, John Martin; Kerr, John Anthony; and Das, Mukunda Behari, to North American Philips Co., Inc. Method of making semiconductor devices. 3,653,978, 4-4-72, Cl. 148-1.5.
Robinson, David S.; and Gavagan, James A., to Lear Siegler, Inc. Six-way seat track. 3,662,984, 5-16-72, Cl. 248-394.000.
Robinson, David S., to Lear Siegler, Inc. Adjustable seat supporting assembly. 3,669,398, 6-13-72, Cl. 248-373.000.
Robinson, David V., 1/5 to Rosini, Donald A. Aseptic packaging of foods. 3,643,586, 2-22-72, Cl. 99-234.
Robinson, David W., to Grace, W. R., & Co. Thermally expanding vermiculite and other thermally expandable materials, utilizing said materials as carrier and the products thereof. 3,686,134, 8-22-72, Cl. 252-378.000.
Robinson, Denis; Whelan, Richard Howard; Katz, Philip Harvey; and Montuori, Anthony George, to CPC International, Inc. Convenience package for the preparation of single-crust pies and the like. 3,682,663, 8-8-72, Cl. 99-192.000.
Robinson, Donald: *See*—
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Robinson, Donald F. Heated die carrier. 3,655,940, 4-11-72, Cl. 219-243.
Robinson, E S & A Limited: *See*—
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Robinson, Ernest K.: *See*—
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Betts, Max William; and Robinson, Frank, 3,668,901.
Betts, Max William; and Robinson, Frank, 3,680,333.
Betts, Max William; and Robinson, Frank, 3,695,063.
Betts, Max William; and Robinson, Frank, 3,702,068.
Robinson, Frank; and Chell, Frederick Nunnerley, to Courtaulds Limited. Knitting process. 3,685,316, 8-22-72, Cl. 66-64.000.
Robinson, Franklin M.; and Anderson, Paul S., to Merck & Co., Inc. 2'-Hydroxy-2,3,5-trimethyl-6,7-benzomorphan. 3,700,734, 10-24-72, Cl. 260-293.540.
Robinson, Gene C., to Ethyl Corporation. Synthesis of gem-dihalocyclopropane compounds. 3,636,161, 1-18-72, Cl. 260-611.
Robinson, George Henry, to Hygena Limited. Furniture construction. 3,674,327, 7-4-72, Cl. 312-257.000.
Robinson, Gerald H.; and Strenglein, Harry F., to Sperry Rand Corporation. High frequency gyromagnetic device employing slot transmission line. 3,707,688, 12-26-72, Cl. 333-24.100.
Robinson, Glen P., Jr.; and Hutchins, Samuel F., to Scientific-Atlanta, Inc. Horn-reflector antenna. 3,646,565, 2-29-72, Cl. 343-781.
Robinson, Greg D. Stringed musical instrument adapted for interchangeable bodies. 3,657,462, 4-18-72, Cl. 84-1.16.
Robinson, Harold J.: *See*—
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Robinson, Hugh A., to USM Corporation. Wave generator configurations. 3,667,320, 6-6-72, Cl. 74-640.000.
Robinson, Jack B.: *See*—
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Robinson, James E., to Kimberly-Clark Corporation. Process for the preparation of tissue-fiber laminates. 3,654,020, 4-4-72, Cl. 156-291.
Robinson, James G. Aerial display sign. 3,683,530, 8-15-72, Cl. 40-215.000.
Robinson, James J., to Valeron Corporation, The. Boring bar adjustment. 3,635,572, 1-18-72, Cl. 408-181.
Robinson, Joel P.: *See*—
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Robinson, John A., to Automation Industries, Inc. Noise gate for ultrasonic test apparatus. 3,690,156, 9-12-72, Cl. 73-67.900.
Robinson, John C.; and Horn, Myron K., to Cities Service Oil Company. Neutron-absorption controller for neutron activation logging. 3,691,384, 9-12-72, Cl. 250-84.500.
Robinson, John F., to North American Rockwell Corporation. Lapping of ball bearing raceway. 3,670,462, 6-20-72, Cl. 51-291.000.
Robinson, John K.; and Voge, Hervey H., to Shell Oil Company. Dehydrogenation process over platinum on lithiated mordenite. 3,700,749, 10-24-72, Cl. 260-683.30r.

Robinson, John L.; and Munnich, Robert F., to Philco-Ford Corporation. Combined modem and vocoder pipeline processor. 3,706,929, 12o19-72, Cl. 325-15.000.

Robinson, Joseph D.; Loren, Jay D.; and Higdon, William T., to Shell Oil Company. Method for determining residual hydrocarbons present in a subterranean earth formation. 3,657,730, 4-18-72, Cl. 324-.5.

Robinson, Keith D.: *See—*
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Robinson, Keith D.; and Tremelin, James D. Method of preparing a container. 3,691,269, 9-12-72, Cl. 264-255.000.

Robinson, Keith D., to Goodyear Tire & Rubber Company, The. Method of making shaped articles. 3,699,198, 10-17-72, Cl. 264-96.000.

Robinson, Keith J.; and Pfisterer, Heinz A., to Polymer Corporation Limited. Impermeable polymeric compositions. 3,686,364, 8-22-72, Cl. 260-876.00b.

Robinson, Kenneth Buckley: *See—*
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Robinson, Leroy E., to Phillips Petroleum Company. Blown film tube collapsing. 3,689,609, 9-5-72, Cl. 264-40.000.

Robinson, Lorin A.: *See—*
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Robinson, Marquis B.: *See—*
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Robinson, Martin A.: *See—*
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Robinson, Martin A.; and Hurley, Thomas J., Jr., to Olin Mathieson Chemical Corporation. Aromatic azoxy compounds from aromatic nitroso compounds. 3,644,327, 2-22-72, Cl. 260-143.

Robinson, Max C.; and Wertheimer, Michael R., to Canadian Liquid Air Ltd., Air Liquide Canada Ltee. Paraelectric refrigerator. 3,650,117, 3-21-72, Cl. 62-3.

Robinson, Morris D. Vehicle lift with railer hitch or the like. 3,638,811, 2-1-72, Cl. 214-77.

Robinson, Morton; and Cripe, Donald M., to Hughes Aircraft Company. Method for preparing high quality rare earth and alkaline earth fluoride single crystals. 3,649,552, 3-14-72, Cl. 252-301.4.

Robinson, Peter: *See—*
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Robinson, Peter T., to Motorola, Inc. High speed machine for bonding frame leads to bonding pads on circuit chips. 3,698,985, 10-17-72, Cl. 156-379.000.

Robinson, Philip W. Minor ingredient dispenser. 3,666,146, 5-30-72, Cl. 222-132.000.

Robinson, Prentice I.: *See—*
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Robinson, Ralph G., 1/3 to Anderson, LeRoy A. Planetary amusement ride. 3,707,282, 12-26-72, Cl. 272-36.000.

Robinson, Ralph R. Angular curette. 3,635,222, 1-18-72, Cl. 128-304.

Robinson, Ralph R. Intrauterine element. 3,659,596, 5-2-72, Cl. 128-130.

Robinson, Ralph R. Vacuum curette. 3,670,732, 6-20-72, Cl. 128-297.000.

Robinson, Ralph R. Shielded intrauterine device. 3,683,906, 8-15-72, Cl. 128-130.000.

Robinson, Ramon H.; and Ramsel, Charles A., to Youngstown Sheet and Tube Company. Push arm. 3,638,694, 2-1-72, Cl. 144-34.

Robinson, Ramon K.: *See—*
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Robinson, Ray M., to Weyerhaeuser Company. Elongated article container. 3,669,336, 6-13-72, Cl. 229-14.00c.

Robinson, Raymond A. System for measuring rotor blade vibration. 3,654,803, 4-11-72, Cl. 73-71.4.

Robinson, Raymond C. V.; Hildick-Smith, Gavin; and Swindlehurst, Thomas, Jr., to Johnson & Johnson. Topical device for the therapeutic management of dermatological lesions with steroids. 3,632,740, 1-4-72, Cl. 424-28.

Robinson, Raymond E., to Blaw-Knox Foundry & Mill Machinery, Inc. Strip tension sensing device. 3,674,193, 7-4-72, Cl. 226-100.000.

Robinson, Richard A., to Searle, G. D., & Co. 4-Tert-butylphenylhydrazones of pyruvic acids. 3,666,801, 5-30-72, Cl. 260-518.

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Robinson, Robert Anthony: *See—*
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Robinson, Robert E.; and De Hoff, Ronald L., to Vanderbilt, R. T., Company, Inc. Process for preparing a mixture of 4-methyl-Δ-tetrahydrophthalic anhydrides as a curing agent. 3,647,701, 3-7-72, Cl. 252-182.

Robinson, Robert E., to National Distillers and Chemical Corporation. Process for aromatic substitution. 3,670,034, 6-13-72, Cl. 260-623.00h.

Robinson, Robert J.: *See—*
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Robinson, Robert W., to British Steel Corporation, mesne. Radiation sensitive strip width measuring unit and split edge detector. 3,655,989, 4-11-72, Cl. 250-219.

Robinson, Robert W., to Sperry Rand Corporation. Apparatus for linearizing a non-linear signal. 3,706,934, 12-19-72, Cl. 328-1.000.

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Robinson, Russell S.: *See—*
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Robinson, Samuel M., to Samro Holdings Ltd. Lighting fixture unit. 3,692,993, 9-19-72, Cl. 240-10.000.

Robinson, Seymour, to Hydrosonic Corporation. Ultrasonic tooth cleaning apparatus. 3,645,255, 2-29-72, Cl. 128-24.

Robinson, Seymour. Ultrasonic dental hand-piece with detachable treatment tools. 3,703,037, 11-21-72, Cl. 32-58.000.

Robinson, Stuart A., to Robinson Thread Co., Inc., The. Bobbin. 3,693,906, 9-26-72, Cl. 242-159.000.

Robinson, Thomas, to Antoma (Hairdressing) Company Limited. Drive apparatus for print rollers for printing machinery. 3,665,275, 5-23-72, Cl. 318-261.000.

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Robinson, Thomas C., to Tecna Corporation. Vas prosthesis for reversible sterilization. 3,699,957, 10-24-72, Cl. 128-1.00r.

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Robinson, Vernon S. Chain saw guide. 3,680,607, 8-1-72, Cl. 143-32.00f.

Robinson, Walter B., to New England Pressed Steel Company. Core assembly method. 3,657,797, 4-25-72, Cl. 29-432.

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Robison, Herbert D., 50% to Thiele, Edmund J. Combined tape dispenser and applicator. 3,707,426, 12-26-72, Cl. 156-527.000.

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Robitschek, George Conrad, to RCA Corporation. Transducing head mount apparatus. 3,668,668, 6-6-72, Cl. 340-174.10e.

Roblin, Gerard; and Nomarski, Georges, to Agence Nationale de Valorisation de la Recherche (ANVAR). Photoelectric system and method for detecting the longitudinal location of surfaces. 3,706,492, 12-19-72, Cl. 356-5.000.
Roblin, John M.; Cole, Frank J.; and Reed, William A., to Republic Steel Corporation. Vaporization of metal for vacuum metalizing. 3,672,327, 6-27-72, Cl. 118-48.000.
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Rocchini, Albert G.; and Trautman, Charles E., to Gulf Research & Development Company. Electrical insulating oil. 3,640,868, 2-8-72, Cl. 252-63.
Roch, Gerald V., to Hurco Manufacturing Company, Inc. Automatic shearing method and apparatus. 3,691,887, 9-19-72, Cl. 83-277.000.
Rocha, John Gonsalves, to Maremont Corporation. Machine gun having dual feeding means for selectively feeding cartridges. 3,680,432, 8-1-72, Cl. 89-33.0sf.
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Roche, Andre. Spray-gun control. 3,674,182, 7-4-72, Cl. 222-193.000.
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Rock, Thomas. Combined bag, seat and stool structure. 3,669,489, 6-13-72, Cl. 297-217.000.
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Rockliff, Peter, to Moisture Control and Measurement Limited. Electrical hygrometers. 3,683,243, 8-8-72, Cl. 317-246.000.
Rocks, Eugene S.; and Poff, Thomas J., to Sperry Rand Corporation. Light emitting semiconductor radial array. 3,641,400, 2-8-72, Cl. 317-234.
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Rockwell, Harvey W.; and Carlson, Marvin J., to Allis-Chalmers Manufacturing Company. Loader with ejector type bucket. 3,642,160, 2-15-72, Cl. 214-767.
Rockwell, Harvey W.; and Poore, Wesley A., to Allis-Chalmers Manufacturing Company. Tilt compensation linkage for tilting bulldozer moldboard. 3,653,450, 4-4-72, Cl. 172-803.
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Rod, Vladimir; Bazant, Vladimir; and Sir, Zdenek, to Ceskoslovenska akademie ved. Method of preparing ammonium terephthalate by isomerization, or disproportionation of potassium salts derived from benzene-carboxylic acids. 3,694,497, 9-26-72, Cl. 260-515.0p.
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Rodder, Jerome A. Chromatography. 3,635,345, 1-18-72, Cl. 210-198.
Rode, James A., to United Nuclear Corporation. Convolute grooved package of cylindrical objects. 3,631,973, 1-4-71, Cl. 206-65.
Rode, James A.; and Hubert, Paul W., to United Nuclear Corporation. Carrier for uranium oxide pellets. 3,632,095, 1-4-72, Cl. 263-47.
Rode, John E., to Temper Corporation. Load responsive device and method of making. 3,659,814, 5-2-72, Cl. 248-23.
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Rodgers, Edward J.; and Sturm, Rolland G. Foot exercising device. 3,695,255, 10-3-72, Cl. 128-25.00b.
Rodgers, Elbert A. Portable disposal apparatus for combustible waste and refuse. 3,682,115, 8-8-72, Cl. 110-8.00c.
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Rodgers, Franklin A., to Pactide Corporation. Compact multistage distillation apparatus having stacked microporous membranes and impermeable films. 3,661,721, 5-9-72, Cl. 202-172.
Rodgers, Franklin A., to Pactide Corporation. Self-limiting electrolytic heater. 3,685,259, 8-22-72, Cl. 55-198.000.
Rodgers, James A., to Quaker Oats Company, The. Jack-in-the-box sounder. 3,691,675, 9-19-72, Cl. 46-118.000.
Rodgers, John J., to White Motor Corporation. Motor vehicle with air flow deflector. 3,696,732, 10-10-72, Cl. 98-2.140.
Rodgers, John Leo, to American Cyanamid Company. Synergistic U.V. absorber combination for polypropylene-polyvinylpyridine blend. 3,641,213, 2-8-72, Cl. 260-895.
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Rodin, Roman Andrianovich; and Oljunin, Vasily Vasilievich. Apparatus for washing lumpy non-metallic materials. 3,652,335, 3-28-72, Cl. 134-66.

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Rodley, Frederick T., to Hoerner-Waldorf Corporation. Reinforced bottom bag. 3,682,372, 8-8-72, Cl. 229-55.000.

Rodriguez, Herman Robert; and de Stevens, George. 1,3-Benzodiazepines. 3,681,340, 8-1-72, Cl. 260-239.0bd.

Rodriguez, Herman Robert; and De Stevens, George, to Ciba-Geigy Corporation. 2,4-Benzodiazepines. 3,696,093, 10-3-72, Cl. 260-239.0bd.

Rodriguez, Herman Robert; and deStevens, George, to Ciba-Geigy Corporation. 2,4-benzodiazepines used as antihypertensive agents. 3,706,830, 12-19-72, Cl. 424-244.000.

Rodriguez, Jaime, to Ashland Oil, Inc. Process for modifying hydroxyl-containing alkyds and polyesters in water dispersion. 3,639,315, 2-1-72, Cl. 260-22.

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Rodriguez, Manuel F., to Mobil Oil Corporation. Tanker construction. 3,631,832, 1-4-72, Cl. 114-74.

Rodriguez, Mercedes. Measuring scoop and spoon combination. 3,690,182, 9-12-72, Cl. 73-429.000.

Rodriquez, Jorge. Leaching process. 3,695,849, 10-3-72, Cl. 23-270.000.

Rodth, Joseph J., to Coca-Cola Company, The, mesne. Beverage dispenser for metering a plurality of liquids. 3,640,433, 2-8-72, Cl. 222-129.2.

Rodwell, John; and Marsden, Harry, to Tennis Unlimited Incorporated. Apparatus for raising and lowering a tennis court net. 3,645,370, 2-29-72, Cl. 194-9.

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Rodwin, Stephen Anthony, to Dominion Engineering Works, Limited. Integrated drying processes and apparatus. 3,668,785, 6-13-72, Cl. 34-14.000.

Rodwin, Stephen Anthony; and Shuffler, Eustace Cosmo, to Dominion Engineering Works, Limited. Sonic drying of webs. 3,694,926, 10-3-72, Cl. 34-69.000.

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Roe, George Ryburn; Sheehan, Gerard Martin; and Knapp, Donald Edward. Titanium dioxide pigments. 3,649,323, 3-14-72, Cl. 106-300.

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Roe, Leslie A. Suspension system for vehicles. 3,679,017, 7-25-72, Cl. 180-73.0tl.

Roe, Lewis P. Gas washer apparatus. 3,645,070, 2-29-72, Cl. 55-230.

Roe, Malcolm David: *See—*
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Roe, Rene Pierre Victor; and Thirot, Gerard, to Ugine Kuhlmann. Polynuclear amines and process for the preparation thereof. 3,646,005, 2-29-72, Cl. 260-508.

Roe, Richard F.: *See—*
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Roebuck, Malcolm J., to First National Bank in Peru, mesne. Button assembly apparatus. 3,643,530, 2-22-72, Cl. 79-5.

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Roeder, Georg; and Ginsberg, Heinz, to Messer Griesheim G.m.b.H. Torch holding latching arrangement. 3,638,864, 2-1-72, Cl. 239-280.5.

Roeder, George K. Downhole pump assembly having engines spaced apart by a production pump. 3,650,640, 3-21-72, Cl. 417-396.

Roeder, George K. Downhole hydraulic pump and engine improvements. 3,703,926, 11-28-72, Cl. 166-106.000.

Roeder, Gordon A.; and Dailey, William H., to Steel Company of Canada Limited, The and Metallgesellschaft Aktiengesellschaft. Controlled slag slow in an electric arc furnace. 3,689,250, 9-5-72, Cl. 75-12.000.

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Roeder, Harold H.; and Roeder, Marcia A. Educational testing and instructional device. 3,696,526, 10-10-72, Cl. 35-9.00e.

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Roeder, Paul J.: *See—*
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Roeder, Robert J., to Kimberly-Clark Corporation. Sanitary napkin with improved adhesive fastening means. 3,672,371, 6-27-72, Cl. 128-290.00r.

Roeder, Robert J., to Kimberly-Clark Corporation. Method for applying pressure sensitive adhesive to sanitary napkins. 3,674,595, 7-4-72, Cl. 156-306.000.

Roeder, Robert S., to Sperry Rand Corporation. Radiometer detector circuit. 3,634,767, 1-11-72, Cl. 325-363.

Roeder, Robert S., to Sperry Rand Corporation. Radiometer modulator-demodulator system. 3,653,045, 3-28-72, Cl. 343-100.

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Roehr, George L. Molding apparatus with positive collapse core. 3,660,001, 5-2-72, Cl. 425-396.

Roeller, Erhart P. Multi-indicator setup gauge. 3,699,659, 10-24-72, Cl. 33-172.00r.

Roemer, Benjamin C., to Trueflight Mfg. Co., Inc. Ice fishing tip-up. 3,645,029, 2-29-72, Cl. 43-17.

Roemer, Frithjof: *See—*
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Roemer, Whitelaw C., to Eastman Kodak Company. Process for the production of integrally formed, random dot photographic images. 3,655,381, 4-11-72, Cl. 96-33.

Roemke, Lowell W. Pneumatic deicer periphery bleeder. 3,690,601, 9-12-72, Cl. 244-134.00a.

Roepenack, Horst; Nowak, Dieter; and Ploger, Fritz, to NUKEM, Nuklear-Chemie und-Metallurgie Gesellschaft mit beschrankter Haftung. Apparatus for lubrication of compression tools for powder metallurgical purposes. 3,676,030, 7-11-72, Cl. 425-78.000.

Roesch, Christian, to Sutton Engineering Company. Roller leveler with adjustable flattening section. 3,701,274, 10-31-72, Cl. 72-165.000.

Roesch, Egon: *See—*
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Roesch, Kurt Fritz: *See—*
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Roeschlaub, Ronald C., to Irontite Products Co., Inc. Roller-type expander tool. 3,683,658, 8-15-72, Cl. 72-119.000.

Roeschlein, Eugene R.; Weiss, Donald C.; and Zeph, David L., to United States of America, Navy. Digital delay time compression circuit. 3,656,096, 4-11-72, Cl. 340-5.

Roeschlein, Eugene R., to United States of America, Navy. Dual delayed sequence generator with read only memory control for 256 output triples for plane and spherical wave-front simulations. 3,700,780, 10-24-72, Cl. 35-10.400.

Roeschlein, Eugene R.; Weiss, Donald C.; and Zeph, David L., to United States of America, Navy. Digital memory shift register incorporating target data averaging through a digital smoothing loop. 3,704,364, 11-28-72, Cl. 235-176.000.

Roeseler, Mangin E.; and Richards, David D. Casing for reel mounted cord. 3,691,639, 9-19-72, Cl. 33-87.000.

Roeser, John O., to Otto Engineering, Inc. Multi-component mixing apparatus. 3,684,250, 8-15-72, Cl. 259-8.000.

Roesies, David J. Fifth wheel coupling for tractor-trailer vehicle. 3,653,686, 4-4-72, Cl. 280-421.

Roeske, Eugene A. Analog position controller. 3,636,973, 1-25-72, Cl. 137-488.

Roessing Bronze Company: *See—*
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Roethke, Ernst: *See—*
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Roethlein, Richard J, to Sprague Electric Company. Electrolytic cell with in-situ charging electrolyte. 3,684,928, 8-15-72, Cl. 317-230.000.
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Roever, Wilhelm; Junghanss, Helmut; and Kauczor, Hans-Werner, to Farbenfabriken Bayer Aktiengesellschaft. Process for the purification of cadmium solutions. 3,699,207, 10-17-72, Cl. 75-101.0be.
Roever, William L.: *See—*
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Roffelsen, Franciscus, to Naomloze Venootschap Spiro Research N.V. Heat exchanger. 3,703,253, 11-21-72, Cl. 228-17.000.
Roffey, Patrick; and Verge, John Pomfret, to Lilly Industries, Ltd. Anti-inflammatory 1,2,4-triazines. 3,644,358, 2-22-72, Cl. 260-248.
Roffey, Patrick; and Verge, John Pomfret, to Lilly Industries, Ltd. Antiparasitic thienyl thiazoles. 3,658,798, 4-25-72, Cl. 260-240.
Roffey, Patrick; and Verge, John Pomfret, to Lilly Industries, Ltd. 4-Hydrazonomethylthiazole antitrypanocides. 3,691,160, 9-12-72, Cl. 260-240.00a.
Roffey, William Arthur; and Fox, Austin Leslie, to Molins Machine Company Limited. Apparatus for forming a plastic container. 3,663,146, 5-16-72, Cl. 425-301.
Roffler, Josua, to Sulzer Brothers Limited. Vapor generating plant. 3,682,140, 8-8-72, Cl. 122-34.000.
Rogaar, Harm P.: *See—*
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Rogall, Herbert, to Singer Company, The, mesne. Accelerometer. 3,680,393, 8-1-72, Cl. 73-517.00b.
Roger, Loyen: *See—*
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Rogers, Adair. Radial flow check valve. 3,646,956, 3-7-72, Cl. 137-525.
Rogers, Alan B.; Sebring, Michael; and Kline, Ralph W., to Armour and Company. Preparation of whole egg magma product. 3,658,558, 4-25-72, Cl. 99-161.
Rogers, Alan B.; and Schwall, Donald V., to Armour and Company. Meat and gravy product and method of making same. 3,681,094, 8-1-72, Cl. 99-187.000.
Rogers, Alan B.; and Sebring, Michael, to Armour and Company. Method for making a food product in portions of controlled size and shape. 3,697,283, 10-10-72, Cl. 99-1.000.
Rogers, Albert B.; and Rogers, Arthur N. Rear viewing device. 3,650,607, 3-21-72, Cl. 350-289.
Rogers, Albert P.: *See—*
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Rogers, Albert P.; Conklin, Robert M.; and Baldwin, Bradford J., to Brunswick Corporation. Contourable green with randomly operable contour selection. 3,658,343, 4-25-72, Cl. 273-176.
Rogers, Arden W.: *See—*
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Rogers, Bernhard J., to Rank Organisation Limited, The. Method and apparatus for recording and reproducing color images on monochrome film. 3,659,039, 4-25-72, Cl. 178-5.4.
Rogers, Charles J., Sr.; and Stanley, Paul E. Electrical protective circuit. 3,665,252, 5-23-72, Cl. 317-18.
Rogers, Chester D., to Jacobsen Manufacturing Company. Vehicle operator weight transfer assembly. 3,670,834, 6-20-72, Cl. 180-41.000.
Rogers, Chester D., to Jacobsen Manufacturing Company. Combination soil conditioner and seeder. 3,685,469, 8-22-72, Cl. 111-87.000.
Rogers, Clarence H.: *See—*
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Rogers, Frederick; Bradus, Robert; and Winar, Joseph J., to Singer Company, The. Control device for the work feeding mechanism of a sewing machine. 3,636,900, 1-25-72, Cl. 112-210.
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Rogers, Fulton Floyd, Jr., to Du Pont de Nemours, E. I., and Company. Corrugated packaging film and its preparation. 3,684,642, 8-15-72, Cl. 161-135.000.
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Rogers, Howard G.; and Taylor, Lloyd D., to Polaroid Corporation. Polymer encapsulated silver halide grains and photographic materials employing same. 3,697,279, 10-10-72, Cl. 96-77.000.
Rogers, Howard G., to Polaroid Corporation. Photographic products and processes for color diffusion transfer. 3,701,656, 10-31-72, Cl. 96-300.000.
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Rogers, Joe E. Apparatus for preventing escape of fuel vapor from internal combustion engine. 3,683,878, 8-15-72, Cl. 123-136.000.
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Rogers, John A.; and Bossard, Fredrick R., to Standard Engineering Co., Inc., mesne. Vehicle front wheel drive assembly. 3,659,667, 5-2-72, Cl. 180-6.2.
Rogers, John A.; and Bossard, Fredrick R., to Standard Engineering Co., Inc., mesne. Vehicle rear wheel drive assembly. 3,664,451, 5-23-72, Cl. 180-70.
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Rohrs, Marvin K.; Neary, Robert J.; Rosenberg, Robert B.; Kardas, Alan; and Staats, William R., to Arco-Flow Dynamics, Inc., (The Wing Company Division). Rotary regenerative space heater. 3,695,250, 10-3-72, Cl. 126-110.00r.

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Roidt, Robert M., to Westinghouse Electric Corporation. Compressed-gas circuit interrupter having a pair of rapid transfer insulating nozzles. 3,670,126, 6-13-72, Cl. 200-148.

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Roinestad, Gerald C., to Ashworth Bros., Inc. Edge driven conveyor system. 3,682,295, 8-8-72, Cl. 198-203.000.

Roiron, Jean-Pierre Louis; and Loyau, Guy, to Societe Anonyme, Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique "Alcatel". Controlling of focussing of electronic bombardment. 3,691,341, 9-12-72, Cl. 219-121.0em.

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Rokitenetz, Walter, to Price-Pfister Brass Mfg. Co. Lavatory pop-up waste valve. 3,646,619, 3-7-72, Cl. 4-203.

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Romer, Gerhard. Method for compacting fodder or the like. 3,673,951, 7-4-72, Cl. 100-38.000.
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Romerhaus, Bert W., to Whirlpool Corporation. Valve means for compressors and the like. 3,639,083, 2-1-72, Cl. 417-292.
Romero, Addie B., to Lee, Raymond, Organization, Inc., The. Convertible sofa bed. 3,668,719, 6-13-72, Cl. 5-17.000.
Romero, Eduardo: *See—*
Rotolico, Anthony J.; and Romero, Eduardo, 3,707,615.
Romero, Frank: *See—*
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Allen, Larry Carl; and Romero, Roderic, 3,689,703.
Eisenlohr, Dieter Moritz; and Romero, Roderic, 3,701,863.
Romey, Herbert R. Visual teaching device for telling time. 3,702,507, 11-14-72, Cl. 35-39.000.
Romhild, Peter; and Herpfer, Eugen, to Dornier System GmbH. Jet-propelled aircraft having vertical and horizontal flight properties. 3,669,371, 6-13-72, Cl. 244-7.00a.
Romick, Roscoe B.; and Strauss, John G., to U.S. Natural Resources, Inc. Apparatus for collecting and discharging lumber. 3,700,120, 10-24-72, Cl. 214-16.00b.
Romlet, Jean; and Cimadevilla, Armand, to Societe Anonyme des Entreprises. Underwater storage tanks. 3,680,275, 8-1-72, Cl. 52-227.000.
Romnas Burks Aktiebolag: *See—*
Camitz, Carl-Henning, 3,664,121.
Romney, Russell H. Mechanical connector system including bifurcate hinged connector means. 3,633,250, 1-11-72, Cl. 24-81.
Romney, Russell H. Apparatus and method for producing and transmitting signals. 3,656,157, 4-11-72, Cl. 340-404.
Romney, Russell H.; and Jensen, Billy M. Data system for medical and other environments. 3,656,687, 4-18-72, Cl. 234-2.
Romolo, John B.: *See—*
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Ron, Benjamin. Micrometer adopted to serve as a linear measuring tool. 3,633,278, 1-11-72, Cl. 33-167.
Ronai, Kenneth S.; and Spanier, Henry C., to Nabisco, Inc. Instant oat cereal product. 3,640,728, 2-8-72, Cl. 99-80.
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Ronayne, Ronald J.; and Ketterling, Edwin, to White Farm Equipment Company. Power take-off control valve. 3,669,229, 6-13-72, Cl. 192-12.00c.
Ronco, Karl: *See—*
Hari, Stefan; and Ronco, Karl, 3,635,963.
Mueller, Willy; Ronco, Karl; and Mory, Rudolf, 3,691,149.
Schlunke, Hans-Peter; and Ronco, Karl, 3,656,953.

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Ronco, Karl; and Mueller, Willy, to Ciba Limited. Disazo pigments. 3,658,785, 4-25-72, Cl. 260-184.
Rondas, Ivan V.; and Christy, Mark H., to Sub' Terrain Irrigation Co. Fluid emitter. 3,693,888, 9-26-72, Cl. 239-535.000.
Ronden, Clifford P.: *See—*
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Rondestvedt, Christian S., Jr., to Du Pont de Nemours, E. I., and Company. Aromatic acid chloride process. 3,668,247, 6-6-72, Cl. 260-544.00m.
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Rondestvedt, Christian Scriver, Jr., to Du Pont de Nemours, E. I., and Company. Fluorinated acrylic monomers containing hetero atoms and their polymers. 3,655,732, 4-11-72, Cl. 260-486.
Roney, Burton W.: *See—*
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Rongved, Leif, to Bell Telephone Laboratories, Incorporated. Lead screw shaft with adjustable pitch. 3,659,473, 5-2-72, Cl. 74-424.8.
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Ronk, Leroy B., to Ronk Electrical Industries, Inc. Rotary dynamoelectric machine having high-resistance rotor. 3,670,238, 6-13-72, Cl. 321-55.000.
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Ronner, Otto, to Starrfrasmachinen A.G. Automatic tracer assembly for copying machine tools. 3,631,759, 1-4-72, Cl. 90-62.
Ronning, Jacob A. Service stool. 3,656,809, 4-18-72, Cl. 297-461.
Ronning, Richard L. Method and apparatus for enhancing the separation of particulate material from an effluent stream. 3,643,404, 2-22-72, Cl. 55-92.
Ronnings, Jacob A. Apparatus for repairing damaged carpeting. 3,697,358, 10-10-72, Cl. 156-514.000.
Ronson Corporation: *See—*
Cox, Ernest Francis, 3,674,980.
Crookes, Le Roy W., 3,644,990.
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Rontsch, Sigfrid, to VEB Sprengstoffwerk Schonebock. Method for the production of explosives. 3,695,953, 10-3-72, Cl. 149-56.000.
Ronzaud, Jacques: *See—*
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Ronzio, Anthony R.; and Pull, Bernard T., to Bio-Organic Chemicals, Inc. Composition for eliminating efflorescence in Portland cement products. 3,645,763, 2-29-72, Cl. 106-90.
Ronzoni, Isidoro; Catoni, Mario; and Chini, Pier Lodovico, to Montecatini Edison S.p.A. Manufactured articles of blends of thermoplastic polymers having different fluidity degrees. 3,655,829, 4-11-72, Cl. 260-899.
Roob, Elwood L.; and Schier, Richard R., to Eaton Yale & Towne, Inc. Fluid cooled torque transmitting device. 3,631,943, 1-4-72, Cl. 188-264.
Rood, Alvin A.: *See—*
Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., 3,635,125.
Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., 3,675,732.
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Stumphauzer, William C.; Hogstrom, Edwin F.; Nord, Eric T.; Schneider, Richard E.; and Rood, Alvin A., 3,697,313.
Rood, Alvin A., to Nordson Corporation. Spray nozzle. 3,658,257, 4-25-72, Cl. 239-589.
Rood, Alvin A.; Hogstrom, Edwin F.; and Stumphauzer, William C., to Nordson Corporation. Apparatus for striping inside seams of cans. 3,702,107, 11-7-72, Cl. 118-2.000.
Rood, William H.: *See—*
Fuller, Roger L.; Kaye, Robert K.; Oliver, Joseph J.; and Rood, William H., 3,646,580.
Roodvoets, Roger J.; and Stapert, James, Jr., to Alignment Systems, Inc. Target system for laying sewer pipes. 3,634,941, 1-18-72, Cl. 33-74.
Roof, Carl W., to Navarm Chemical Co. Envelope closure. 3,642,191, 2-15-72, Cl. 229-77.
Roof, Ronald L., to Carrier Corporation. Air conditioning apparatus. 3,684,170, 8-15-72, Cl. 236-38.000.
Roofe, Willard I., to General Motors Corporation. Assembly machine and method. 3,643,318, 2-22-72, Cl. 29-434.
Rooijen, Jan Van, to U.S. Philips Corporation. Potentiometer comprising a transport screw. 3,639,879, 2-1-72, Cl. 338-180.
Rooke, Sydney William, to Soves Limited. Sorting conveyor arrangements. 3,651,940, 3-28-72, Cl. 209-125.
Rooke, Sydney William; and Coston, Ronald Francis, to Sovex Limited. Container-unloading apparatus. 3,651,967, 3-28-72, Cl. 214-307.
Rooker, Bobbie E.: *See—*
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Rooks, John C., to Schjeldahl, G. T., Company. Display apparatus having plural gas diode stages. 3,668,641, 6-6-72, Cl. 340-168.
Rooks, John C., to Schjeldahl, G. T., Company. Sequentially addressable alpha-numeric gas tube display device. 3,668,642, 6-6-72, Cl. 340-168.
Roome, Albert T.: *See—*
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Roome, Douglas P.: *See—*
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Roon, Kenneth E.: *See—*
Tinghitella, Michael J.; and Roon, Kenneth E., 3,694,238.
Roon, Robert J.; and Levenberg, Bruce, to University of Michigan, The Regents of the. Urea assay process and composition. 3,655,516, 4-11-72, Cl. 195-103.5.
Rooney, Clarence S.: *See—*
Carlson, John A.; Hoff, Dale R.; and Rooney, Clarence S., 3,646,027.
Hoff, Dale R.; and Rooney, Clarence S., 3,700,685.
Hoff, Dale R.; and Rooney, Clarence S., 3,702,330.
Rooney, James J.; and Walach, Augustyn Z., to International Business Machines Corporation. Active filter capacitor for power supply switching regulators. 3,670,230, 6-13-72, Cl. 321-10.
Rooney, John P., to Varian Associates. Waveguide load. 3,634,783, 1-11-72, Cl. 333-22.
Roos, Charles J. Structure and a method for isolating a building against radioactive fallout. 3,680,498, 8-1-72, Cl. 109-1.00s.
Roos, Dirk Godfried Johannes, to Trans-Atlas A.G. Continuous web feeding apparatus. 3,702,168, 11-7-72, Cl. 226-110.000.
Roos, Ernst: *See—*
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Wagner, Klaus; and Roos, Ernst, 3,659,004.
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Wagner, Klaus; and Roos, Ernst, 3,691,186.
Roos, Ernst; and Wagner, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Benzo-tris-thiophenes. 3,663,568, 5-16-72, Cl. 260-330.5.
Roos, Ernst; and Wagner, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of aromatic lactones. 3,663,575, 5-16-72, Cl. 260-343.3.
Roos, Hugo: *See—*
Fischer, David; Kohler, Rudolf; Roos, Hugo; and Merker, Joachim, 3,685,845.
Roos, Jan, to U.S. Philips Corporation. Transducer for converting acoustic vibrations into electrical oscillations, and vice versa, in the form of a diaphragm coated with at least one layer of a piezoelectric material. 3,654,402, 4-4-72, Cl. 179-110.
Roos, Jan, to U.S. Philips Corporation, mesne. Thin tape or foil made of an electrically insulating synthetic material. 3,674,629, 7-4-72, Cl. 161-214.000.
Roos, Jan; and Boone, Salomon, to U.S. Philips Corporation. Electroacoustic transducer having a diaphragm made of at least one layer of piezoelectric material. 3,683,129, 8-8-72, Cl. 179-110.00a.
Roos, Robert R., to Mueller Co. Plastic service fitting and method and apparatus for attaching same. 3,633,599, 1-11-72, Cl. 137-15.
Roos, Robert R., to Mueller Co. Connection fitting for a pipe. 3,677,578, 7-18-72, Cl. 285-162.000.

Roos, Robert R., to Mueller Co. Plastic service fitting and method and apparatus for attaching same. 3,692,614, 9-19-72, Cl. 156-580.000.
Roosa, Vernon D. Flushing device. 3,644,940, 2-29-72, Cl. 4-47.
Roosova, Milena: *See—*
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Root, George R., to Root Manufacturing Company, Inc. Riding lawn mower. 3,686,840, 8-29-72, Cl. 56-15.800.
Root, James R.; and Hill, Thomas D., to Ruskin Manufacturing Company. Wrap-around damper frame. 3,677,517, 7-18-72, Cl. 251-366.000.
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Root, Warren W.; and Frank, William W., to Borg-Warner Corporation. Forced draft furnace safety system. 3,650,262, 3-21-72, Cl. 126-110.
Root, William Edward, to Kennedy Von Saun Corporation. Method of and system for controlling grinding mills. 3,690,570, 9-12-72, Cl. 241-34.000.
Rootes Motors Limited: *See—*
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Litchfield, Edward Francis, 3,647,257.
Milner, Peter James; and Hodkin, Richard Keith, 3,640,587.
Roots, Philip Stanley, to St. Bernard Plastics Limited. Insulating means suitable for use in handling high volatge power lines. 3,688,017, 8-29-72, Cl. 174-46.000.
Rope, Barry S.; and Huffaker, James E., to Kimberly-Clark Corporation. Method of fabricating a casting mold. 3,683,486, 8-15-72, Cl. 29-428.000.
Roper Corporation: *See—*
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Roper, Daniel W., to North American Rockwell Corporation. Infinitely variable planetary transmission. 3,670,594, 6-20-72, Cl. 74-689.000.
Roper, Don Albert: *See—*
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Eckert, Klaus-Dieter; and Roper, Hans-Joachim, 3,680,117.
Roper, John. Thermally activated power brake system and pump therefor. 3,658,387, 4-25-72, Cl. 303-10.
Roper, Ralph E., to Wallace Expanding Machines, Inc. Method and apparatus for processing coiled sheet metal. 3,686,921, 8-29-72, Cl. 72-302.000.
Roper, William H.; Ross, Robert N.; and Visnovits, Gabor, to Plant Industries, Inc. Flowable substances dispenser. 3,672,543, 6-27-72, Cl. 222-183.000.
Ropiequet, Richard L.; and Montag, Margaret J., to Alta Industries, Incorporated. Process of making articles from films of thermoplastic material. 3,654,017, 4-4-72, Cl. 156-251.
Ropp, Richard C., to Westinghouse Electric Corporation. Method of preparing rare earth metal phosphate vanadate luminescent compositions having acicular crystal habit. 3,661,791, 5-9-72, Cl. 252-301.4.
Ropp, Richard C., to Westinghouse Electric Corporation. Process for coating lehring-sensitive phosphor onto lamp envelope. 3,679,452, 7-25-72, Cl. 117-33.500.
Roques, Rodney A.; and Gray, Foster L., to Texas Instruments, Incorporated. Use of vapor phase deposition to make fused silica articles having titanium dioxide in the surface layer. 3,644,607, 2-22-72, Cl. 264-60.
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Rosa, Albert G.; and Birrer, George W., to McDonnell Douglas Corporation. Heat sealed flexible envelope separator and battery embodying same. 3,703,417, 11-21-72, Cl. 136-145.000.
Rosa, Daniel F., to Medi-Plas Sciences, Inc. Roof ventilator. 3,685,426, 8-22-72, Cl. 98-83.000.
Rosa, John, to Westinghouse Electric Corporation. Inverter apparatus and method for high frequency lamp operation. 3,707,648, 12-26-72, Cl. 315-231.000.
Rosa, Juan. Antismog device for cleaning, burning, and muffling the exhaust gases and engine compartment fumes of internal combustion engines. 3,696,619, 10-10-72, Cl. 60-297.000.
Rosaen, Nils O. Fluid system with self cleaning filter. 3,637,083, 1-25-72, Cl. 210-497.
Rosaen, Nils O., to Parker-Hannifin Corporation. Multiple filter device. 3,666,101, 5-30-72, Cl. 210-90.
Rosaen, Nils O. Flow indicator device having pressure balanced sealing shaft. 3,685,354, 8-22-72, Cl. 73-228.000.
Rosan, Jose, Sr. Apparatus and method for extracting the essence from a food substance by controlled agitation. 3,654,852, 4-11-72, Cl. 99-323.
Rosan, Jose, Sr. Fittings for high pressure fluid lines. 3,702,707, 11-14-72, Cl. 285-23.000.
Rosano, Joseph George, Jr.; and Coffman, J. D., to Gamon-Calmet Industries, Inc. Fluid meter. 3,662,600, 5-16-72, Cl. 73-257.000.
Rosasco, Nate, Jr., to Northwestern Golf Company. Golf club with finger orientating grip. 3,706,453, 12-19-72, Cl. 273-81.400.
Rosatelli, Carlo; and Shroff, Arvind, to Thomson-CSF. Isothermal furnace. 3,646,320, 2-29-72, Cl. 219-401.
Rosauer, Peter J.: *See—*
Wendt, John A.; and Rosauer, Peter J., 3,681,977.
Rosback, Donald H., to Universal Oil Products Company. Method for preparing copper-exchanged type X zeolite. 3,649,176, 3-14-72, Cl. 23-111.
Rosback, Donald H., to Universal Oil Products Company. Method for preparing copper-exchanged type Y zeolite. 3,649,177, 3-14-72, Cl. 23-111.
Rosborough, Robert S., Jr.; and Wright, Luther M., to Eastman Kodak Company. Web splicing and identifying apparatus. 3,634,171, 1-11-72, Cl. 156-506.
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Horn, Anton; Schinzel, Erich; and Rosch, Gunter, 3,679,668.
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Rosch, Hans Michael; and Limberger, Ernst, to Landis & Gyr AG. Quick-acting electric switch. 3,694,597, 9-26-72, Cl. 200-67.00d.
Rosch, Helmut; Neburg, Herbert; and Schlenz, Erich; deceased (by Schlenz, Frieda; heir), to Siemens Aktiengesellschaft. Remote-controlled magnetically operable switch. 3,689,858, 9-5-72, Cl. 335-188.000.
Rosch, Jakob, to Schmid, Heinrich, vorm. Schmid & Sohn. Apparatus for sorting similar-type objects. 3,645,395, 2-29-72, Cl. 209-91.
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Rose, Arthur W. Tie rod puller. 3,680,835, 8-1-72, Cl. 254-29.00r.
Rose, Bennie A., to Heyl and Patterson, Inc. Railroad car positioner. 3,695,185, 10-3-72, Cl. 104-176.000.
Rose, Bennie A., to Heyl and Patterson, Inc. Apparatus for crushing large lumps of coal and the like. 3,698,648, 10-17-72, Cl. 241-33.000.
Rose, Boyd W., to FMC Corporation. Combination stacker-feeder. 3,643,817, 2-22-72, Cl. 214-6.
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Rose, Edward A.; Krohn, Richard H.; and Slater, Donald E., to Optronix, Inc. Intrusion detection system responsive to interruption of a transmitted beam. 3,704,461, 11-28-72, Cl. 340-258.00b.
Rose, Emery T.; and Pezzanite, Larry V., to Union Carbide Corporation. Structural carbonaceous materials having improved surface erosion characteristics. 3,639,159, 2-1-72, Cl. 117-161.
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Rose, Henry J.; and Turbak, Albin F., to Tee-Pak, Inc. Easily peeled synthetic casing. 3,658,560, 4-25-72, Cl. 99-176.
Rose, Henry J.; and Turbak, Albin F. Treatment of sausage casing for easy peeling. 3,658,561, 4-25-72, Cl. 99-176.
Rose, Henry J.; Turbak, Albin F.; and Leahy, Thomas E., Jr., to Tee-Pak, Inc. Treatment of sausage casing for easy peeling. 3,674,511, 7-4-72, Cl. 99-176.000.
Rose, Henry J.; and Turbak, Albin F., to Tee-Pak, Inc. Oil modified cellulosic sausage casings. 3,674,523, 7-4-72, Cl. 106-168.000.
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Rose, J. Sterling, to Birko Chemical Corporation. Method for taking and transferring bacteria samples. 3,661,718, 5-9-72, Cl. 195-103.50r.
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Rose, John Brewster; Mathews, Carl Fraser; Nield, Eric; and Vincent, Peter Incledon, to Imperial Chemical Industries Limited. Thermoplastic compositions. 3,634,547, 1-11-72, Cl. 260-876.
Rose John L., Jr.; and Smith, Richard L., to Velsicol Chemical Corporation, mesne. Process for dyeing natural and synthetic polyamide fibers with acid dyestuff and composition therefor. 3,634,016, 1-11-72, Cl. 8-54.
Rose, John W., to General Motors Corporation. Masking to prevent autodoping of epitaxial deposits. 3,663,319, 5-16-72, Cl. 148-175.
Rose, Kenneth Ralph: *See*—
Wamsley, Robert Alan; Barnett, John Edward; Rose, Kenneth Ralph; and Jones, Gerald Stephan, 3,634,298.
Rose, Larry A. Extension barrel for use in firing projectiles with firearm using blank cartridges. 3,690,026, 9-12-72, Cl. 42-77.000.
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Barough, Victor; Glenn, Robert; and Rose, Louis, 3,669,019.
Rose, Marion S., to Litton Systems, Inc. Deflectable light maser. 3,678,409, 7-18-72, Cl. 331-94.500.
Rose, Marshall G., Jr., to Ampex Corporation. Edit control for video tape record system. 3,647,951, 3-7-72, Cl. 178-6.6.
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Rose, Nelson J. Loudspeaker balancing system. 3,678,202, 7-18-72, Cl. 179-1.0at.
Rose, Philip George, to Rolls-Royce Limited. Method of manufacturing carbon fibre. 3,660,018, 5-2-72, Cl. 23-209.4.
Rose, Robert C., to Rosemount Engineering Company. Linearized resistance bridge circuit operable in plurality from a common power supply. 3,651,696, 3-28-72, Cl. 73-362.
Rose, Robert C., to Rosemount Engineering Company. Two-wire current transmitter employing a stabilized current source in one electrical circuit containing control means in series therewith for controlling a direct current amplifier contained in a parallel ircuit. 3,675,122, 7-4-72, Cl. 324-62.000.
Rose, Roger A.: *See*—
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Rose, Roger A.; and Fox, Thomas U., to Monsanto Company. Handling of raffinates from wet phosphoric acid purification. 3,684,439, 8-15-72, Cl. 423-321.000.
Rose, Ronald N. Electrostatic precipitator cell for desk or tabletop air purifier. 3,678,655, 7-25-72, Cl. 55-128.000.
Rose, Selwyn H.: *See*—
Reynard, Kennard A.; and Rose, Selwyn H., 3,700,629.
Rose, Selwyn H.; and Reynard, Kennard A., to Horizons Incorporated. Curable fluorophosphazene polymers. 3,702,833, 11-14-72, Cl. 260-2.00p.
Rose, Sidney. Portable display device. 3,685,666, 8-22-72, Cl. 211-178.000.
Rose, Stephen C.: *See*—
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Rose, Walter: *See*—
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Rose-Miller, Brigadier George Patrick. Method for handling feeding devices for young animals. 3,698,952, 10-17-72, Cl. 134-22.00r.
Rose-Miller, Brigadier George Patrick. Container for transport of animals. 3,703,159, 11-21-72, Cl. 119-19.000.
Rosebach, Edward J., Jr. Light reflective wheel covers. 3,639,036, 2-1-72, Cl. 350-97.
Roseboom, Antonius Hendrikus Cornelis, to U.S. Philips Corporation. Wire unwinding device. 3,632,061, 1-4-72, Cl. 242-129.
Rosebrook, Roy, Sr., to Anellux Systems Corporation, mesne. Booster servo controlled valve control mechanism. 3,675,890, 7-11-72, Cl. 251-3.000.
Roseby, Bernard: *See*—
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Rosecrants, William J., Jr.: *See*—
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Rosen, Cyril; and Patok, Stan. Dental operating light. 3,689,761, 9-5-72, Cl. 240-41.150.
Rosen, Fred D., to North American Rockwell Corporation. Particle-size measuring apparatus. 3,703,641, 11-21-72, Cl. 250-218.000.
Rosen, George: *See*—
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Rosen, Henri Elliott. Shoe construction. 3,686,777, 8-29-72, Cl. 36-2.50b.
Rosen, Herbert J.: *See*—
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Rosen, Ian K.; and Holmgren, William C., to AGSRAD, Inc., mesne. Bead seater. 3,654,980, 4-11-72, Cl. 157-1.1.
Rosen, Ian K., to Wypco Corporation, The. Spine piece for squeegee blades. 3,659,310, 5-2-72, Cl. 15-250.42.
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Rosen, Karl Isac Joel. Thread storage and delivery device for textile machines. 3,642,219, 2-15-72, Cl. 242-47.12.
Rosen, Karl Isac Joel. Yarn storing device. 3,648,939, 3-14-72, Cl. 242-47.01.
Rosen, Karl Isac Joel. Thread storage and delivery device for textile machines. 3,672,590, 6-27-72, Cl. 242-47.120.
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Rosen, Marvin: *See*—
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Rosen, Melvin Harris; and Blatter, Herbert Morton, to Ciba-Geigy Corporation. Arylthiete-1, 1-dioxides as anti-inflammatory agents. 3,639,614, 2-1-72, Cl. 424-275.
Rosen, Melvin Harris; and Blatter, Herbert Morton, to Ciba Corporation. Halothiete-1,1-dioxide as anti-inflammatory agents. 3,644,632, 2-22-72, Cl. 424-275.
Rosen, Melvin Harris; and Blatter, Herbert Morton, to Ciba-Geigy Corporation. 1,2,4-Thiadiazoles. 3,692,794, 9-19-72, Cl. 260-302.0sd.
Rosen, Melvin Harris; and Blatter, Herbert Morton, to Ciba-Geigy Corporation. Thiophene-1,1-dioxides. 3,706,769, 12-19-72, Cl. 260-332.100.
Rosen, Meyer R.; and Prokai, Bela, to Union Carbide Corporation. Method of extinguishing fires and compositions therefor containing cationic silicone surfactants. 3,677,347, 7-18-72, Cl. 169-1.00a.
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Rosen, Philip J., to Babcock & Wilcox Company, The. Stepping motor control system. 3,648,144, 3-7-72, Cl. 318-696.
Rosen, Philip J., to Diamond Power Specialty Corporation. Reactor control including individual and group rod motor controls. 3,706,921, 12-19-72, Cl. 318-564.000.
Rosen, Ruth, to Automatic Packaging Machinery Co. Slide lock. 3,695,657, 10-3-72, Cl. 292-57.000.
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Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., to Nordson Corporation. Double-acting hydraulic pump and air motor therefor. 3,635,125, 1-18-72, Cl. 91-55.
Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., to Nordson Corporation. Muffler for pneumatic motor. 3,675,732, 7-11-72, Cl. 181-36.00a.
Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., to Nordson Corporation. Modular apparatus for heating circulating coating material. 3,676,642, 7-11-72, Cl. 219-301.000.
Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., to Nordson Corporation. Valve for pneumatic motor. 3,692,274, 9-19-72, Cl. 251-75.000.
Rosen, Sol A., to Assembly Cloth Company. Grille cloth assembly. 3,666,610, 5-30-72, Cl. 161-113.000.
Rosenbauer, Charles H., to Bausch & Lomb Incorporated. Manufacture of multi-focal ophthalmic lens molds. 3,649,236, 3-14-72, Cl. 65-31.
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Rosenberg, Barnett; Brown, Felix H.; and Williamson, David Theodore Nelson, said Williamson & Said Bossons assor. of 1/2 to Molins Limited and said Rosenberg and said Brown assor. of 1/2 to Owens-Illinois, Inc. PIP recording apparatus. 3,643,014, 2-15-72, l. 178-6.6.
Rosenberg, Barnett, to Owens-Illinois, Inc. Apparatus for practicing electrophotography. 3,649,514, 3-14-72, Cl. 204-299.
Rosenberg, Daniel: *See—*
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Rosenberg, David, to Pall Corporation. Disposable filter assembly. 3,696,932, 10-10-72, Cl. 210-437.000.
Rosenberg, David D.; and Spinney, David U., to Hooker Chemical Corporation. Halogenation process using ultraviolet light. 3,637,479, 1-25-72, Cl. 204-163.
Rosenberg, David M.; and Manecke, Siegfried E., to Robertshaw Controls Company. Thermostatic control device and system utilizing the same. 3,665,363, 5-23-72, Cl. 337-361.
Rosenberg, David M.; and Manecke, Siegfried E., to Robertshaw Controls Company. Electrical switch having a snap blade means and method of calibrating the same or the like. 3,673,535, 6-27-72, Cl. 337-347.000.
Rosenberg, Edgar N., to United States of America, Navy. Hydrodynamic transducer. 3,704,443, 11-28-72, Cl. 340-8.00r.
Rosenberg, Elliot E.: *See—*
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Rosenberg, Franklin J.; and Miller, James G., to Sterling Drug Inc. Rodenticidal and rodent repellant compositions. 3,689,655, 9-5-72, Cl. 424-273.000.
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Hedberg, Frederick L.; and Rosenberg, Harold, 3,678,088.
Rosenberg, Karl M., to Flo-Tech Corporation, mesne. Coating apparatus. 3,678,891, 7-25-72, Cl. 118-402.000.
Rosenberg, Karl M., to Flo-Tech Corporation. Method of making decorative articles from plastisol. 3,679,784, 7-25-72, Cl. 264-73.000.
Rosenberg, Karl Moses, to Flo-Tech Corporation, mesne. Method and apparatus for applying decorative coating to a substrate. 3,671,288, 6-20-72, Cl. 117-39.000.
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Rosenberg, Peretz. Rotary pumps. 3,677,668, 7-18-72, Cl. 418-45.000.
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Rosenberger, Michael, to Hoffmann-La Roche Inc. 5,9-Dioxodecanoic acids and methods for their preparation. 3,654,326, 4-4-72, Cl. 260-413.
Rosenberger, Siegfried; Troxler, Eduard; and Hausermann, Heinrich, to Ciba-Geigy Corporation. Aryl-pyrazoline sulphonic acid esters. 3,639,419, 2-1-72, Cl. 260-310.
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Rosenblum, Julia R. Multiple unit hand luggage. 3,696,850, 10-10-72, Cl. 150-33.000.
Rosenblum, Robert A., to Burroughs Corporation. Rotary disk assembly having low density core for information storage system. 3,646,533, 2-29-72, Cl. 340-174.1.
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Rosendahl, Gottfried R., to United States of America, Navy. Condenser system for high intensity light source. 3,702,395, 11-7-72, Cl. 240-41.300.
Rosendale, Douwe. Ventilation regulating device. 3,680,471, 8-1-72, Cl. 98-117.000.
Rosene, Robert B., to Dow Chemical Company, The. Method for treating subsurface soils. 3,667,236, 6-6-72, Cl. 61-11.
Rosener, Harvey J., to Allen-Bradley Company, mesne. Circular interpolation system. 3,644,723, 2-22-72, Cl. 235-156.
Rosenfeld, Daniel D.; and Gorbaty, Martin L., to Esso Research and Engineering Company. Uracil phosphates containing an aromatic fused ring. 3,681,352, 8-1-72, Cl. 260-260.000.
Rosenfeld, Daniel D.; and Rosenhouse, Stanley. Substituted uracil phosphates as pesticides. 3,706,748, 12-19-72, Cl. 260-260.000.
Rosenfeld, Howard; and Wetzler, Justin J., 1/2 to A-T-O Inc., 1/2 to American Linen Supply Co., mesne and Linen Supply Association of America, The. Laundering system. 3,686,899, 8-29-72, Cl. 68-3.00r.
Rosenfeld, Michael. Furniture and toy construction. 3,641,701, 2-15-72, Cl. 46-14.
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Rosenfeld, Myer; and Nichols, Troy R., to United States of America, Army. Corrosion inhibited multi-purpose metal cleaner. 3,645,905, 2-29-72, Cl. 252-138.
Rosenfeld, Myer; and Nichols, Troy R., to United States of America, Army. Corrosion inhibited paint remover. 3,687,857, 8-29-72, Cl. 252-109.000.
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Rosenkranz, Hans-Jurgen; Rudolph, Hans; and Heine, Hans-Georg, to Farbenfabriken Bayer Aktiengesellschaft. Initiators for the photopolymerisation of unsaturated compounds. 3,686,084, 8-22-72, Cl. 204-159.150.
Rosenkranz, Hans-Jurgen; Rudolph, Hans; and Kreuder, Hans-Joachim, to Farbenfabriken Bayer Aktiengesellschaft. Acid hardening resins which can be activated by ultraviolet light. 3,692,560, 9-19-72, Cl. 117-93.310.
Rosenkranz, Otto; and Jensen, Cornelius, 1/2 to Retelsen, Martin H. Power driven cultivator. 3,637,025, 1-25-72, Cl. 172-52.
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Rosenmund, Peter; and Grubel, Klaus, to Marcus, Friedrich-Karl. Method of making pyrrole derivatives. 3,687,962, 8-29-72, Cl. 260-296.00r.
Rosenstein, Abraham J. Vehicle theft arrester. 3,661,115, 5-9-72, Cl. 116-33.
Rosenstein, Nathan, to Hartford Spinning (Canada) Ltd. Compact multi-filament textile tow and method of making the same. 3,675,409, 7-11-72, Cl. 57-144.000.
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Rosenthal, Daniel. Method of making multicellular thermoset foamed plastic beads. 3,651,182, 3-21-72, Cl. 264-51.
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Rosenthal, Robert W., to Gulf Research & Development Company. Process for adding methyl substituents to aromatic hydrocarbons. 3,676,514, 7-11-72, Cl. 260-668.000.
Rosenthal, Rudolph; and Kieras, Joseph A., to Atlantic Richfield Company. Process for purification of dicyclopentadiene diepoxide. 3,636,051, 1-18-72, Cl. 260-348.
Rosenthal, Rudolph; Sheng, Ming Nan; and Zajacek, John G., to Atlantic Richfield Company. Treatment of cumene hydroperoxide for use in epoxidation reactions. 3,639,486, 2-1-72, Cl. 260-610.
Rosenthal, Rudolph; Bonetti, Giovanni A.; and Shalit, Harold, to Atlantic Richfield Company. Synthesis of isoprene. 3,663,642, 5-16-72, Cl. 260-681.
Rosenthal, Sidney, to United States of America, Air Force. Pyrotechnic remote cutter. 3,640,169, 2-8-72, Cl. 83-639.
Rosenthal, Sol Roy. Multiple puncture injector device. 3,675,766, 7-11-72, Cl. 206-63.400.
Rosenthal, Wayne O., to Gearhart-Owen Industries, Inc. Apparatus for sealingly blocking a conduit. 3,642,064, 2-15-72, Cl. 166-134.
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Rosenwald, Robert H., to Roper Corporation. Distillation of styrene with addition of polmerization inhibitor. 3,651,371, 3-21-72, Cl. 203-9.
Rosenwald, Robert H., to Universal Oil Products Company. Synergistic anti-icing composition. 3,653,853, 4-4-72, Cl. 44-66.
Rosenwald, Robert H.; and Gaydasch, Alexander, to Universal Oil Products Company. Middle distillate. 3,672,854, 6-27-72, Cl. 44-66.000.
Rosenwald, Robert H., to Universal Oil Products Company. Reaction product of epichlorohydrin compound and beta-alkylamine. 3,686,315, 8-22-72, Cl. 260-584.00r.
Rosenweig, Ronald E.; and Resnick, Joseph; deceased (by Berger, Louis; Resnick, Harry; and Messina, Peter; executors), to Ferrofluidics Corporation. Magnetic fluid display device. 3,648,269, 3-7-72, Cl. 340-373.
Roser, Gerhard K.; Rebechini, Eugene J.; and Vosburg, Guy M., to Weber Marking Systems, Inc. Inking pad and use thereof. 3,678,848, 7-25-72, Cl. 101-125.000.
Roser, Kenneth F. Sight glass for the inside inspection of pipes and cleaning of same. 3,672,749, 6-27-72, Cl. 350-319.000.
Roser, Kenneth L., to Keystone Consolidated Industries, Inc. Self-extruding screw. 3,648,560, 3-14-72, Cl. 85-47.
Roser, Robert A.: *See*—
Moore, John R.; Noack, William L.; and Roser, Robert A., 3,696,967.
Roseville Engineering, Inc., mesne: *See*—
Rasmussen, Robert F., 3,666,382.

Rosher, Ronald; and Simmons, Ronald L., to Hercules Incorporated. Cool burning smokeless powder composition containing nitramine ethers. 3,697,341, 10-10-72, Cl. 149-92.000.
Rosi, David: *See—*
Albertson, Noel F.; Rosi, David; and Merola, Armando J., 3,639,410.
Rosiaux, Edouard: *See—*
Borgne, Roland; Joy, Jean; and Rosiaux, Edouard, 3,661,760.
Rosic, Richard F., to Leisure Group, Inc., The. Rotary sprinkler. 3,655,132, 4-11-72, Cl. 239-206.
Rosiek, Frank C., to Budd Company, The. Method of locking a bolt in an assembly by external staking. 3,699,637, 10-24-72, Cl. 29-432.100.
Rosiello, Raymond S.: *See—*
Arnold, George R.; and Rosiello, Raymond S., 3,707,152.
Rosier, Laurence L.: *See—*
Chang, Hsu; Keefe, George E.; Lin, Yeong S.; and Rosier, Laurence L., 3,689,902.
Rosier, Stewart N. Fish bite signaling device. 3,698,116, 10-17-72, Cl. 43-17.000.
Rosin, Harlan J.: *See—*
Jones, Daniel F.; Petranek, David J.; and Rosin, Harlan J., 3,653,223.
Rosin, Jacob; and Ang, Frank S., to Chris-Craft Industries, Inc. Production of arylsulfonyl chlorides. 3,632,642, 1-4-72, Cl. 260-543.
Rosin, Jacob; and Ang, Frank S., to Chris-Craft Industries, Inc. Production of cyanoacetic acid. 3,668,231, 6-6-72, Cl. 260-465.400.
Rosin, Jacob; and Ang, Frank S., to Chris-Craft Industries, Inc. Production of aromatic sulfones. 3,673,259, 6-27-72, Cl. 260-607.
Rosin, Jacob, to Stauffer Chemical Company. Hydrolysis of ethyl silicate. 3,704,263, 11-28-72, Cl. 252-309.000.
Rosin, Seymour, to Harris-Intertype Corporation. Optical character spacing system for phototypesetting. 3,668,984, 6-13-72, Cl. 95-4.500.
Rosin, Seymour, to Harris-Intertype Corporation. Image spacing system. 3,687,025, 8-29-72, Cl. 95-4.500.
Rosinger, Herbert P.: *See—*
Soloway, Samuel B.; and Rosinger, Herbert P., 3,658,869.
Rosini, Donald A.: *See—*
Robinson, David V., 3,643,586.
Rosink, Wilhelmus Bernardus: *See—*
Nijhof, Engbert Bernard Gerard; and Rosink, Wilhelmus Bernardus, 3,707,660.
Rosinski, Alexander B., Jr.; and Wiessner, Edward E., to Whirlpool Corporation. Laundry basket with removable agitation means. 3,648,486, 3-14-72, Cl. 68-4.
Rosinski, Edward J.: *See—*
Plank, Charles J.; and Rosinski, Edward J., 3,676,330.
Rubin, Mae K.; and Rosinski, Edward J., 3,699,139.
Rosinski, Edward J.; and Simmons, Kenneth G., to Mobil Oil Corporation. Conversion of inorganic oxides into extrudable binders. 3,645,914, 2-29-72, Cl. 252-455.
Rosinski, Werner K.: *See—*
Kaspareck, Walter E.; Swords, Ben B.; and Rosinski, Werner K., 3,693,418.
Rosis, Constantine, to Borden, Inc. Process for improving plasticizer absorption of polyvinyl halides. 3,666,735, 5-30-72, Cl. 260-87.5.
Roskowinski, Alfons: *See—*
Brown, Archer W.; Montgomery, James L.; Wienke, Charles W.; Roskowinski, Alfons; and Braddock, William A., 3,658,189.
Rosler, Josef. Machine for covering mattresses made of foamed material, rubber, polyester and the like. 3,633,332, 1-11-72, Cl. 53-125.
Roslonski, Donald J., to National Electro-Cook Corporation. Method and apparatus for heating and dispensing individually packaged food products. 3,651,752, 3-28-72, Cl. 99-357.
Roslonski, Donald J., to Frost-A-Glass Corporation. Device for frosting drinking glasses. 3,668,888, 6-13-72, Cl. 62-373.000.
Rosner, Carl H.: *See—*
Fleming, Robert B.; and Rosner, Carl H., 3,654,377.
Rosner, Hermann: *See—*
Thomanek, Franz R.; Lallinger, Georg; and Rosner, Hermann, 3,661,086.
Rosner, Kurt: *See—*
Von Conrad, Eugen; Rosner, Kurt; and Meyer, Ludwig, 3,659,792.
Rosner, Leonard A. Girdle type garments. 3,683,935, 8-15-72, Cl. 128-547.000.
Rospatch Corporation: *See—*
Drent, Donald H., 3,643,556.
Larson, Melvin E., 3,668,823.
Templeton, John Glenn, 3,674,614.
Templeton, John Glenn; and Seitz, Calvin W., 3,692,176.
Ross, Adma Schneller: *See—*
Curran, William Vincent; Ross, Adma Schneller; and Tomcufcik, Andrew Stephen, 3,689,652.
Ross, Albert, to Harris Calorific Company. Electrically ignited gas torch with laminar gas flow in removable tip. 3,667,895, 6-6-72, Cl. 431-255.000.
Ross, Albert, to Harris Calorific Company. Electrically ignited gas torch with shut-off valve and latch therefor. 3,694,134, 9-26-72, Cl. 431-255.000.
Ross, Albert H.: *See—*
Peterson, John A.; and Ross, Albert H., 3,645,895.
Ross, Albert L. Bag making machine. 3,686,988, 8-29-72, Cl. 83-300.000.
Ross, Austin: *See—*
Barkman, Byron L.; Moe, William West; and Ross, Austin, 3,678,187.
Ross, Brian Francis; and Spicer, Dalton Harold, to Deere & Company. Windrower drive means. 3,699,751, 10-24-72, Cl. 56-10.300.
Ross, Camilla B.: *See—*
Henderson, William E.; and Ross, Camilla B., 3,684,540.
Ross, Carolyn A.: *See—*
Mitchell, Olga M. M.; Ross, Carolyn A.; and Wallace, Robert L., Jr., 3,644,674.
Ross, Charles W.: *See—*
Green, Thomas A.; and Ross, Charles W., 3,633,009.
Green, Thomas A.; and Ross, Charles W., 3,691,354.
Ross, Charles W., to Leeds & Northrup Company. Feed rate control in a cement kiln incorporating dust return. 3,632,018, 1-4-72, Cl. 222-1.
Ross, Charles W., to Leeds & Northrup Company. Method for automatically detecting the presence of cyclic pulses in noise corrupted process measurements. 3,681,780, 8-1-72, Cl. 444-1.100.
Ross, Dale W.: *See—*
Wong, Peter J.; Ross, Dale W.; and Gardiner, Kenneth W., 3,689,788.
Ross, Dan C., to U.S. Dynamics Inc. Fiche camera with selective frame skip mechanism. 3,672,769, 6-27-72, Cl. 355-40.000.
Ross, Dan C., to U.S. Dynamics Inc. Fiche camera arrangement. 3,682,546, 8-8-72, Cl. 355-40.000.
Ross, Dieter, to Siemens Aktiengesellschaft. Method and arrangement for measuring distances optically with high precision. 3,652,161, 3-28-72, Cl. 356-5.
Ross, Donald Alexander, to RCA Corporation. Method of and apparatus for reproducing a colored image by electrophotographic means. 3,667,841, 6-6-72, Cl. 355-4.000.
Ross, Donald H., to Super Tire Engineering Company. Industrial tire mold. 3,667,882, 6-6-72, Cl. 425-117.000.
Ross, Donald L.: *See—*
Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., 3,700,723.
Ross, Donald Nixon; and Ray, Derek Barrie. Apparatus for molding heart valves. 3,655,306, 4-11-72, Cl. 425-109.
Ross, Donald R. Shock absorbing device. 3,635,332, 1-18-72, Cl. 206-46.
Ross, Donald R. Folding box. 3,703,256, 11-21-72, Cl. 229-39.000.
Ross, Donald S.: *See—*
Attridge, Curtis C.; and Ross, Donald S., 3,680,463.
Ross, Earl Warren; and Mc Henry, Howard Thomas, to General Electric Company. High stability nickel base alloy. 3,642,469, 2-15-72, Cl. 75-171.
Ross, Edgar A.: *See—*
Tatum, Odes D.; and Ross, Edgar A., 3,654,380.
Ross, Edward Charles, to RCA Corporation. Voltage translation circuit for MNOS memory array. 3,649,848, 3-14-72, Cl. 307-251.
Ross, Edward Charles, to RCA Corporation. Variable threshold memory system using minimum amplitude signals. 3,702,990, 11-14-72, Cl. 340-173.00r.
Ross, Edward E., to Del Monte Corporation. Method and apparatus for orienting articles. 3,669,240, 6-13-72, Cl. 198-31.0aa.
Ross, Edward E., to Del Monte Corporation. Method and apparatus for orienting elongated articles. 3,682,301, 8-8-72, Cl. 209-85.000.
Ross, Frank E., to Maytag Company, The. Hinge structure. 3,659,314, 5-2-72, Cl. 16-168.
Ross, George B.: *See—*
Chaparro, John J.; Ellis, Lowell V.; Meanor, Doyle W.; Morton, William D., Jr.; Richelmann, Bernd H.; Ross, George B.; and Toth, John E., 3,677,401.
Ross, George E., 50% to Drake, Frances R. Adjustable frame holder. 3,632,101, 1-4-72, Cl. 269-70.
Ross, George H.: *See—*
Anderson, John E.; Parish, Clyde E.; and Ross, George H., 3,632,624.
Anderson, John E.; Parish, Clyde E.; and Ross, George H., 3,655,719.
Ross, Gerald, to Esso Research and Engineering Company. Conversion of heavy petroleum feedstocks. 3,707,462, 12-26-72, Cl. 208-127.000.
Ross, Gerald F.: *See—*
Nicolson, Alexander M.; and Ross, Gerald F., 3,634,755.
Ross, Gerald F., to Sperry Rand Corporation. Energy coupler utilizing directional couplers and delay lines to simultaneously trigger

plural charging networks into tree for summing at common output. 3,646,478, 2a29-72, Cl. 333-9.

Ross, Gerald F.; and Lamensdorf, David, to Sperry Rand Corporation. Balanced radiator system. 3,659,203, 4-25-72, Cl. 325-105.

Ross, Gerald F.; and Nicolson, Alexander M., to Sperry Rand Corporation. Time domain measurement of high frequency complex permittivity and permeability of transmission line enclosed material sample. 3,693,080, 9-19-72, Cl. 324-58.50a.

Ross, Gerald F.; and Maguire, Hugh C., to Sperry Rand Corporation. Intrusion alarm system. 3,696,359, 10-3-72, Cl. 340-224.000.

Ross, Gerhard; Reul, Bernhard; Tillmann, Walter; and Liebenhoff, Reinhardt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Apparatus for the manufacture of granules. 3,642,393, 2-15-72, Cl. 425-6.

Ross, Herbert S.: *See—*
Goldstein, Murray S.; Lerman, Harold; Acker, Robert; and Ross, Herbert S., 3,680,355.

Ross, Howard C., to Kinkead Industries, Incorporated. Tail block for carpet stretching tool. 3,706,440, 12-19-72, Cl. 254-62.000.

Ross, Howard R.; Goodrich, Lloyd D.; and Mc Queen, Norman, to Transportation Technology, Inc. Guideway and switching linear motor propelled vehicle. 3,696,753, 10-10-72, Cl. 104-148.0lm.

Ross, Irving D., Jr.; and Madland, Thorvald, to Youngstown Steel Door Company, The. Dual brake type drive mechanism. 3,660,938, 5-9-72, Cl. 49-220.

Ross, Ivan L., to American Chain & Cable Company, Inc. Conveyor system. 3,662,873, 5-16-72, Cl. 198-78.

Ross, James A., to Rohr Corporation. Magnetic suspension and propulsion system. 3,638,093, 1-25-72, Cl. 318-687.

Ross, James W.: *See—*
Frant, Martin S.; and Ross, James W., 3,672,962.

Ross, James W. Instruments to supplement and take the place of hands. 3,653,775, 4-4-72, Cl. 401-6.

Ross, James W.; and Frant, Martin S., to New England Merchants National Bank, mesne. Membrane electrode. 3,691,047, 9-12-72, Cl. 204-195.00m.

Ross, John A., to Hall Industries, Inc. Leaf bag holder. 3,638,888, 2-1-72, Cl. 248-97.

Ross, John M.; White, Warren V.; and Wortman, Robert R., to Sunkist Growers, Inc. Gravity conveyor. 3,640,366, 2-8-72, Cl. 193-7.

Ross, John M.; and White, Warren V., to Sunkist Growers, Inc. Live roller conveyor for discrete articles such as fruit. 3,651,922, 3-28-72, Cl. 198-127.

Ross, John M.; and Stryker, Harvey I., to Du Pont de Nemours, E. I., and Company. Process for dyeing paper with disazo dyestuffs and compositions therefor. 3,684,425, 8-15-72, Cl. 8-7.000.

Ross, John M.; and Smith, Ronald T., to Sunkist Growers, Inc. Mobile platform structure for fruit pickers. 3,690,092, 9-12-72, Cl. 53-391.000.

Ross, John Reuben: *See—*
Davis, Leo W.; Lackey, Marion D.; Ross, John Reuben; and Trenary, Bryant, 3,704,040.

Ross, John Sterry Hawley: *See—*
Macnab, Robert Beattie; Ross, John Sterry Hawley; and Wood, Michael Burke, 3,648,082.

Ross, Joseph A.: *See—*
Pear, Charles B., Jr.; and Ross, Joseph A., 3,678,847.

Ross, Joseph A.; and Hemdal, Hakan O., to Potter Instrument Company, Inc. Apparatus for converting a cyclic analog signal to a digital signal. 3,656,154, 4-11-72, Cl. 340-347.

Ross, Joseph Hansbro: *See—*
Coscia, Anthony Thomas; and Ross, Joseph Hansbro, 3,634,399.

Ross, Klaus: *See—*
Markert, Gerhard; Pennewis, Horst; Ross, Klaus; and Neher, Dieter, 3,661,880.

Ross, Lawrence James; and Van Cor, Frederick Boyd, to American Cyanamid Company. Continuous process for the preparation of acylsulfanilyl chloride. 3,649,686, 3-14-72, Cl. 260-543.

Ross, Lester M.: *See—*
Stripling, William W.; and Ross, Lester M., 3,653,737.

Ross, Louis E.; Lyon, John K.; and Paolucci, Julius J., to Price-Pfister Brass Mfg. Co. Diverter valve structure. 3,646,967, 3-7-72, Cl. 137-625.47.

Ross, Marty: *See—*
Moore, Werton D., 3,665,942.

Ross, Mike. Wallet carrying article. 3,648,906, 3-14-72, Cl. 224-5.

Ross, Milton Dean: *See—*
Busler, Willard LeRoy; Phillips, Howard Charles; and Ross, Milton Dean, 3,641,649.

Ross, Nicholas D.: *See—*
Blackstock, Hoyt A.; and Ross, Nicholas D., 3,689,290.

Ross Operating Valve Company: *See—*
Bitonit, Paul A., 3,654,958.
Huntington, Andrew B., 3,642,198.
Pickett, David A., 3,680,596.
Porter, Edward B., Sr., 3,635,250.

Ross, Ray C.; and Crum, Robert L., to Allis-Chalmers Manufacturing Company. Hinged closure for vehicle bottom guard structure. 3,670,835, 6-20-72, Cl. 180-691.000.

Ross, Richard C.: *See—*
Svoboda, Glenn R.; and Ross, Richard C., 3,634,308.

Ross, Richard H. Combination bookcase and shipping container. 3,692,174, 9-19-72, Cl. 206-45.220.

Ross, Richard J.; and Tjon, Harry X., to Kaiser Aluminum & Chemical Corporation. Mold system and apparatus for producing a composite panel. 3,697,205, 10-10-72, Cl. 425-4.000.

Ross, Robert N.: *See—*
Roper, William H.; Ross, Robert N.; and Visnovits, Gabor, 3,672,543.

Ross, Roger J., to Singer Company, The. Button holing system for household sewing machines. 3,656,443, 4-18-72, Cl. 112-77.000.

Ross, Roger J., to Singer Company, The. Quick release needle clamp. 3,658,022, 4-25-72, Cl. 112-226.000.

Ross, Roger J., to Singer Company, The. Incremental pattern control system for sewing machines. 3,706,291, 12-19-72, Cl. 112-77.000.

Ross, Roy C.; and Bandy, Larry L., to Allis-Chalmers Manufacturing Company. Steering clutch and engine clutch hydraulic circuit. 3,659,668, 5-2-72, Cl. 180-6.700.

Ross, Rupert D., to Marathon Oil Company. Stimulating low pressure natural gas producing wells. 3,653,442, 4-4-72, Cl. 166-305.

Ross, Rupert F.: *See—*
Ainslie, Norman G.; Cheroff, George; Graff, William S.; Howard, James Kent; and Ross, Rupert F., 3,695,855.

Ross, Sherwood, B.; and Kreizel, William J., to Chain Bike Corporation. Wheel for vehicle. 3,656,531, 4-18-72, Cl. 152-8.

Ross, Sidney D.: *See—*
Morrison, Richard J.; and Ross, Sidney D., 3,687,718.

Ross, Sidney D.; and Finkelstein, Manuel, to Sprague Electric Company. Electrical capacitors with amide impregnants. 3,684,932, 8-15-72, Cl. 317-258.000.

Ross, Sidney D.; Dunkl, Franz S.; and Finkelstein, Manuel, to Sprague Electric Company. Dimethylolpropionic acid based electrolytes for electrical capacitors. 3,702,426, 11-7-72, Cl. 317-230.000.

Ross, Stanley E.: *See—*
Wolf, Harold W.; and Ross, Stanley E., 3,644,591.

Ross, Stanley E., to Stevens, J. P., & Co., Inc. Process for producing carbonized fibrous products. 3,663,173, 5-16-72, Cl. 23-209.4.

Ross, Stanley E., to Stevens, J. P., & Co., Inc. Method of preparing air-permeable laminate. 3,695,967, 10-3-72, Cl. 156-209.000.

Ross, Stephen T.: *See—*
Kaiser, Carl; and Ross, Stephen T., 3,655,676.
Kaiser, Carl; and Ross, Stephen T., 3,657,319.
Kaiser, Carl; and Ross, Stephen T., 3,661,917.
Kaiser, Carl; and Ross, Stephen T., 3,705,169.

Ross, Stephen T.; and Zirkle, Charles L., to Smith Kline & French Laboratories. N-pyridylalkyl-β-alkoxy-β-trifluoromethyl-phenalkylamines. 3,679,693, 7-25-72, Cl. 260-296.0ae.

Ross, Svante Bertil: *See—*
Carlsson, Per Arvid Emil; Corrodi, Hans Hudolf; Florwall, Gosta Linnart; and Ross, Svante Bertil, 3,644,623.

Ross, Sydney: *See—*
Controni, Guido; Khan, Waheed N.; Patrick, James R.; and Ross, Sydney, 3,649,460.
Morris, Horton H.; Olivier, James P.; and Ross, Sydney, 3,659,708.

Ross, Thorvald S., Jr.: *See—*
Ross, Thorvald S., Jr.; and Consalvo, Dante V. (said Consalvo, Dante V., assor. to), 3,675,810.

Ross, Thorvald S., Jr.; and Consalvo, Dante V., said Consalvo, Dante V., assor. to Ross, Thorvald S., Jr. Receptacle for waste material. 3,675,810, 7-11-72, Cl. 220-17.000.

Ross, Vernon B., to Larson Industries, Inc. Motion detection system. 3,634,884, 1-11-72, Cl. 340-258.

Ross, Wilbur Norbert, to Du Pont de Nemours, E. I., and Company. Process for forming a cohesive tow band from a plurality of separate yarn bundles. 3,662,056, 5-9-72, Cl. 264-290.

Ross, Wilfred T.: *See—*
Lass, James L.; Ross, Wilfred T.; and Venier, Dominic A., 3,654,077.

Ross, William C., to Grace, W. R., & Co. Printing element. 3,649,439, 3-14-72, Cl. 161-165.

Ross, William C., to Grace, W. R., & Co. Apparatus for production of textile, letter press and printing blankets. 3,663,340, 5-16-72, Cl. 156-555.

Ross, William C., to Grace, W. R., & Co. Process of producing reinforced laminate. 3,673,023, 6-27-72, Cl. 156-137.000.

Ross, William C., to Grace, W. R., & Co. Guide for placing reinforced yarns in preformed grooves in rubber. 3,687,783, 8-29-72, Cl. 156-436.000.

Ross, William James; and Jamieson, William Boffey, to Lilly, Eli, and Company. Novel 5-nitroimidazole antiparasitic agents. 3,658,797, 4-25-72, Cl. 260-240.

Ross-Clunis, Robert Alan. Self-steering arrangement. 3,678,878, 7-25-72, Cl. 114-144.00r.

Rossbach, Donald W.; and Etes, Donald E., to Zoo-Lab, Inc. Fishing tools. 3,694,014, 9-26-72, Cl. 289-17.000.

Rosscup, Robert J.: *See—*
Wolff, William F.; Rosscup, Robert J.; and Ridgway, John A., Jr., 3,647,677.

Rosse, Thomas A.: *See—*

Spergel, Philip; Gaines, Stanley L.; Maxwell, William; McFayden, Ronald; Rosse, Thomas A.; and Blackmer, David E., 3,658,478.
Rosse, Thomas A.; and Blackmer, David E., to Instrumentation Laboratory, Inc. Fluid analyzing apparatus. 3,672,843, 6-27-72, Cl. 23-253.00r.
Rosse, Thomas A.; Blackmer, David E.; Zindler, Jerrold; and Kelley, Thomas F., to Instrumentation Laboratory, Inc. Analysis system employing a plural chamber cuvette structure. 3,703,336, 11-21-72, Cl. 356-39.000.
Rosseay, Leon B.: *See—*
Fletcher, William E.; and Rosseay, Leon B., 3,686,639.
Rossel, Joseph. Spark advance device. 3,658,039, 4-25-72, Cl. 123-117.000.
Rossel, Joseph. Tire with retractable studs. 3,665,992, 5-30-72, Cl. 152-208.000.
Rossel, Joseph. Pollution control system. 3,666,422, 5-30-72, Cl. 23-277.00c.
Rossel, Joseph. Property safe. 3,669,037, 6-13-72, Cl. 109-49.000.
Rossell, John Barry: *See—*
Caverly, Brian Leonard; and Rossell, John Barry, 3,706,576.
Rossello, Mario: *See—*
Calligaris, Ennio; and Rossello, Mario, 3,647,450.
Calligaris, Ennio; Callaby, Roy; and Rossello, Mario, 3,650,747.
Rosser, Daniel B.: *See—*
Eriksson, Lars O.; and Rosser, Daniel B., 3,652,903.
Livezey, John P.; and Rosser, Daniel B., 3,651,383.
Livezey, John P.; and Rosser, Daniel B., 3,686,541.
Rosser, Eugene P.; and Lorenz, Howard I., said Rosser assor. to Noble Drilling Corporation. Underwater pipe positioning apparatus. 3,664,442, 5-23-72, Cl. 175-231.
Rosser, John Anthony: *See—*
Ogilvy, Harry Heggie; Tuck, Eiizabeth Margaret; Dobbs, David John Miller; and Rosser, John Anthony, 3,685,454.
Rossetti, Carlo. Apparatus for the production of case polymer sheets. 3,689,022, 9-5-72, Cl. 249-81.000.
Rossetti, Louis F.: *See—*
Brown, Chester A.; and Rossetti, Louis F., 3,650,827.
Rossetti, Marta: *See—*
Mangini, Angelo; Tundo, Antonio; Bonini, Bianca Flavia; and Rossetti, Marta, 3,663,541.
Rosshirt, Hermann: *See—*
Madsen, Elmer; and Rosshirt, Hermann, 3,638,028.
Rossi, Albert: *See—*
McDougall, Lee A.; Rossi, Albert; and Wisotsky, Max J., 3,693,720.
Rossi, Alberto; and Sury, Ernst, to Aba Corporation. 2,3,4,4a,5,6-Hexahydro-1H-pyrazino[1,2-a] quinolines and pharmaceutical compositions containing same. 3,647,791, 3-7-72, Cl. 260-268.
Rossi, Alberto; Walter, Armin; Kessler, Werner; and Iselin, Beat, to Ciba Corporation. Antiinflammatory glucose derivatives. 3,655,884, 4-11-72, Cl. 424-180.
Rossi, Alberto, to Ciba Corporation. Pentol derivatives. 3,660,498, 5-2-72, Cl. 260-611.
Rossi, Alfred G. Fabric and method for making the fabric. 3,658,023, 4-25-72, Cl. 112-416.
Rossi, Anthony J. Apparatus for extruding candy fillings having a high percentage of solids. 3,676,036, 7-11-72, Cl. 425-209.000.
Rossi, Carlo: *See—*
Froehlich, Alfred; and Rossi, Carlo, 3,635,718.
Rossi, Enzo: *See—*
Imparato, Luigi; Rossi, Enzo; and Del Ross, Sergio, 3,654,329.
Rossi, Eugene F., to Allis-Chalmers Manufacturing Company. Gas delivery manifold and processed material discharge assembly for rotary kiln. 3,661,370, 5-9-72, Cl. 263-33.
Rossi, Giorgio; Michieli, Giannantonio; and Paolucci, Paride, to Montecatini Edison S.p.A. Fluorinated esters with a pesticide action. 3,689,522, 9-5-72, Cl. 260-469.000.
Rossi, Harry; and Myers, John H., to Continental Can Company, Inc. Carton with article-centering means. 3,705,681, 12-12-72, Cl. 229-40.000.
Rossi, Harry J.: *See—*
Katzenmeyer, James H.; and Rossi, Harry J., 3,658,235.
Rossi, Harry J., to Continental Can Company, Inc. Tubular carton with axially closed ends. 3,670,950, 6-20-72, Cl. 229-40.000.
Rossi, Lionello. Articulated pivotable continuous conveyor mounted on a wheeled frame, preferably carrying also a rotating mixer. 3,684,255, 8-15-72, Cl. 259-169.000.
Rossi, Louis J., to Eastman Kodak Company. Substituted bis(p-dialkylaminophenyl) methane photoconductors. 3,647,431, 3-7-72, Cl. 96-1.5.
Rossi, Pietro Paolo: *See—*
Siclari, Francesco; Rossi, Pietro Paolo; Calgari, Seba; and Jacuone, Roberto, 3,700,631.
Rossi, Robert R., to Arrow Safety Device Company. Marker lamp. 3,633,021, 1-4-72, Cl. 240-8.2.
Rossi, Silvano, to Roussel-UCLAF. Carboxamides of benzotriazepines. 3,699,098, 10-17-72, Cl. 260-239.30b.
Rossi, Vito A.: *See—*
Tarneja, Krishan S.; Rossi, Vito A.; and McNally, James B., 3,666,574.
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Roudabush, Robert L.; and Drummond, Linwood E., to Eastman Kodak Company. Propargyl esters of bicyclo[2.2.1]hept-5-ene-2-carboxylic acid and bicyclo[2.2.1]heptane-2-carboxylic acid. 3,641,108, 2-8-72, Cl. 260-468.
Roueche, Armand, to Ciba Limited. Phenyl-azo-hydroxynaphtholic acid amide pigments. 3,652,533, 3-28-72, Cl. 260-203.
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Rouet, Paul, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Optical system for a camera. 3,706,848, 12-19-72, Cl. 178-7.920.
Rouis, Robert J. Electrically operated, remote controlled wheel turner. 3,648,539, 3-14-72, Cl. 74-494.
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Roumejon, Leon. Floating hull to maintain a cushion of air. 3,662,700, 5-16-72, Cl. 114-67.
Round, Byron J.; and Stalph, Gunter J., to Combustion Engineering, Inc. and Fabrica de Radiatoare si Cabluri Brasov. Method for forming corners of omega-type expansion joints Method of soldering the cooling body of automobile radiators. 3,631,587, 1-4-72, l. 29-488.
Round, Kenneth J., to Atomic Energy of Canada Limited. Nuclear power source. 3,678,303, 7-18-72, Cl. 310-3.00r.
Rous, Benjamin, to Grand-City Container Corporation. Carton. 3,682,370, 8-8-72, Cl. 229-40.000.
Rous, Pierre. Pallet storage sectional frame structures. 3,672,515, 6-27-72, Cl. 211-176.000.
Rous, Pierre. Sectional shelving. 3,693,556, 9-26-72, Cl. 108-109.000.
Rouse, Alan D.: *See—*
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Rouse, Donald W., to Readex Electronics, Inc. Method and apparatus for transmitting utility meter data to a remote mobile command unit. 3,688,271, 8-29-72, Cl. 340-172.500.
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Rouse, William, to Imperial Chemical Industries, Limited. Pressure transducer. 3,703,099, 11-21-72, Cl. 73-398.0ar.
Rouse, William H., to North American Rockwell Corporation. Dampener control system for lithographic printing press. 3,700,984, 10-24-72, Cl. 318-77.000.
Rousey, Donald L., to Questor Corporation. Wind braced turbine. 3,645,192, 2-29-72, Cl. 98-75.
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Rousseau, Claude, to C.I.T.-Compagnie Industrielle des Telecommunications. Supervisory circuit for electronically monitoring a telegraphy line. 3,668,314, 6-6-72, Cl. 178-69.00g.
Rousseau, Claude, to C.I.T.-Compagnie Industrielle des Telecommunications. Pulse discriminator. 3,686,438, 8-22-72, Cl. 178-69.600.
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Rousseau, Genevieve; Allais, Andre; and Poittevin, Andre, to Rousel-UCLAF. Spiro benzocyclane acetic acid compounds. 3,682,964, 8-8-72, Cl. 260-327.0th.
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Rousseau, Louis; and Rousseau, Joseph. Frustoconical rotary cutter for digging trenches. 3,683,522, 8-15-72, Cl. 37-91.000.
Rousseau, Louis Marie, to Felix Bauer. Mobile refuse incinerator. 3,682,117, 8-8-72, Cl. 110-14.000.
Rousseau, Roy S.; Keating, Raymond J.; and Steinke, Gary L., to Kartridge Pak Co., The. Packaging machine. 3,664,085, 5-23-72, Cl. 53-112.
Roussel, Jean-Charles, to Societe Anonyme Thimonnier & Cie. Device for drawing parallel strips with uniform tension. 3,656,386, 4-18-72, Cl. 83-367.
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Rouverol, William S. Ball-disk drive. 3,654,812, 4-11-72, Cl. 74-200.
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Rouvre, Philippe A. R.; Pineau, Jean E.; and Peroy, Francois, to Regie Nationale des Usines Renault and Automobiles Peugeot. Intermittent windshield wiper control. 3,633,085, 1-4-72, Cl. 318-443.
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Rovati, Luigi, to Rotta Research Laboratorium S.p.A. Pharmaceutically active glucosamine salts useful in the treatment of osteoarthritis and rheumatoid arthritis. 3,683,076, 8-8-72, Cl. 424-180.000.
Rovati, Luigi; Mascherpa, Sergio; and Casula, Pierluigi, to Rotta Research Laboratorium S.p.A. N-Acetylglucosamine for treating degenerative afflictions of the joints. 3,697,652, 10-10-72, Cl. 424-180.000.
Roveti, Denes. Current limiter. 3,656,025, 4-11-72, Cl. 317-20.
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Rovin, Herman; Cobb, James W.; Opuszenski, Theodore; Willard, Richard H.; Rigat, Raymond, Jr.; and Pellicano, Joseph, to Ivanhoe Research Corporation. Method and system for attaching a pocket to a portion of a garment. 3,670,675, 6-20-72, Cl. 112-121.120.
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Rowe, Lacy A. Spinning reel. 3,637,157, 1-25-72, Cl. 242-84.2.
Rowe, Robert L.; and Peccerill, Donald. Apparatus for extruding cylindrical magnets. 3,640,657, 2-8-72, Cl. 425-114.
Rowe, Russell L., to Carborundum, The. Abrasive blast cleaning system. 3,690,066, 9-12-72, Cl. 51-9.000.
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Rowland, William P., to Rowland Development Corporation. Retroreflective material. 3,684,348, 8-15-72, Cl. 350-103.000.
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Rowland-Hill, Edward W.; and Margerum, Edwin O., to Sperry Rand Corporation. Detachable side plate for a threshing and separating unit of an axial flow combine. 3,696,815, 10-10-72, Cl. 130-27.00j.
Rowland-Hill, Edward William; and Margerum, Edwin O., to Sperry Rand Corporation. Supporting and adjusting means for agricultural machines such as combine harvesters. 3,631,862, 1-4-72, Cl. 130-27.
Rowland-Hill, Edward William, to Sperry Rand Corporation. Axial flow threshing and separating unit creating an air flow along the grain pan. 3,645,270, 2-29-72, Cl. 130-27.
Rowland-Hill, Edward William, to Sperry Rand Corporation. Crop feeding means to an axial flow type threshing and separating combine. 3,648,710, 3-14-72, Cl. 130-27.
Rowland-Hill, Edward William, to Sperry Rand Corporation. Axial combine with rotor and concave convertible to support different threshing elements. 3,664,100, 5-23-72, Cl. 56-14.600.
Rowland-Hill, Edward William, to Sperry Rand Corporation. Axial flow threshing and separating means with a load distributing threshing rotor. 3,669,121, 6-13-72, Cl. 130-27.00t.
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Rowley, Ernest W. Boat having pivotally mounted steering mechanism. 3,670,687, 6-20-72, Cl. 115-18.000.
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Rowsam, Kenneth P.; and Yost, De Witt M., to Sorg Paper Company, The. Anticounterfeit ticket. 3,677,887, 7-18-72, Cl. 162-140.000.
Rowton, Richard Lee, to Jefferson Chemical Company, Inc. Cyanoalkylated polyoxyalkylene polyamines. 3,666,788, 5-30-72, Cl. 260-465.50r.
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Roy, Fernand. Door lock guard. 3,698,217, 10-17-72, Cl. 70-451.000.
Roy, Fernand. Venetian blind structure, more particularly for doubled glazed sealed window unit. 3,702,040, 11-7-72, Cl. 49-64.000.
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Royer, James M. Security device for sliding windows and doors. 3,640,559, 2-8-72, Cl. 292-288.
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Rudel, Harry, to Biological Concepts Inc., mesne. Intrauterine medicator. 3,656,483, 4-18-72, Cl. 128-264.
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Ruderfer, Walter A. Warehousing storage system. 3,642,339, 2-15-72, Cl. 312-283.
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Rudkin, Alva James, Jr.: *See—*
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Rudloff, Robert H. Tractor mounted pavement washer. 3,690,559, 9-12-72, Cl. 239-163.000.
Rudnick, Stanley J.; Michaud, Paul L.; and Porges, Karl G., to United States of America, Atomic Energy Commission. Continuous digital ratemeter. 3,646,330, 2-29-72, Cl. 235-150.3.
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Rudolph, Hans: *See—*
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Fuhr, Karl; Rudolph, Hans; Schnell, Hermann; and Patheiger, Manfred, 3,639,321.
Fuhr, Karl; Vernaleken, Hugo; Heine, Hans-Georg; Rudolph, Hans; and Schnell, Hermann, 3,664,937.
Guhr, Karl; Vernaleken, Hugo; Heine, Hans-Georg; Rudolph, Hans; and Schnell, Hermann, 3,636,026.
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Rudolph, Joannes Gerard; and Moesker, Gerard, to U.S. Philips Corporation. Semiconductor device having pairs of contact areas and associated supply conductor points of attachment in a preferred arrangement. 3,707,655, 12-26-72, Cl. 317-234.00r.
Rudolph, Murray. Theft-proof credit card assembly. 3,683,806, 8-15-72, Cl. 101-369.000.
Rudolph, Nathan H.; and Boyd, Ronald G. Dial feed die arrangement for forming compression fittings. 3,688,717, 9-5-72, Cl. 113-1.00g.
Rudolph, Otfried; and Kuhn, Wilfried, to Veb Druckmaschinenwerk Planeta. Sheet carrier cylinder for use in a poly-chrome rotary printing press adapted for both one-side and two-side printing. 3,654,861, 4-11-72, Cl. 101-183.
Rudolph, Ralph G., to United States Steel Corporation. Jet deflection vapor gage. 3,670,571, 6-20-72, Cl. 73-194.00r.
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Rudolph, Rome R.; Strutz, Carl, Jr.; and Strutz, Frank C., to Strutz, Carl, & Co., Inc. Workpiece transferring apparatus. 3,648,821, 3-14-72, Cl. 198-33.
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Rudov, Walter B., to United States Steel Corporation. Billet marking apparatus and method of marking. 3,638,712, 2-1-72, Cl. 164-76.
Rudston, Stanley George: *See—*
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Rudzki, Henryk S. Urethane foam production and catalyst therefor comprising a mixture of an aliphatic tertiary amine compound and a tertiary amine salt of an alkylarylsulforic acid. 3,706,687, 12-19-72, Cl. 260-2.5ac.
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Rueckwald, Ronald F., to Xerox Corporation. Electrostatic image development apparatus. 3,648,657, 3-14-72, Cl. 118-637.
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Ruehlen, Forrest N., to Phillips Petroleum Company. Process for recovery and separation of perhalogenated fluorocarbons. 3,686,082, 8-22-72, Cl. 204-59.000.

Ruekberg, Herbert S., to Continental Can Company, Inc. Apparatus for making plastic closure having weakening line. 3,642,408, 2-15-72, Cl. 18-42.

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Rueping, Calvin F.; and Daniel, Robert T., to Texaco Inc. Process for preparing improved furfural extracts. 3,637,822, 1-25-72, Cl. 260-514.

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Ruf, Peter; and Forster, Ewald, to Ciba Limited. Composition of matter comprising an epoxy resin, dicyandiamide and hexamethylenetetramine. 3,634,322, 1-11-72, Cl. 260-47.

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Ruff, Charles Ernest, to Standard Products Company, The. Decorative trim strip. 3,687,792, 8-29-72, Cl. 161-4.000.

Ruff, David L.; and Siddiqui, Nadeem U., to Grefco, Inc. Bituminous fibrous building product and method of preparing same. 3,701,672, 10-31-72, Cl. 106-282.000.

Ruff, Donald O., to General Motors Corporation. Fault indicator circuit for vehicular battery charging systems. 3,656,135, 4-11-72, Cl. 340-248.

Ruff, John D.; and Wheeler, Phillip R. Centrifugal heat pump with overload protection. 3,668,883, 6-13-72, Cl. 62-158.000.

Ruff, John D.; and Wheeler, Phillip R. Small centrifugal heat pump. 3,691,785, 9-19-72, Cl. 62-230.000.

Ruff, John Denis. Movie viewing and still copy camera. 3,642,367, 2-15-72, Cl. 355-45.

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Ruffolo, Hector Michael. Hair dryer. 3,691,646, 9-19-72, Cl. 34-90.000.

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Ruget, Gabriel, to Compagnie des Ateliers et Forges de la Loire (St. Chamond-Firmidy-St. Etienne-Jacob-Holtzer). Apparatus for forging crankshafts and the like. 3,650,143, 3-21-72, Cl. 72-412.

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Ruhl, Karl; Franck, Heinz-Gerhard; and Turowski, Johannes, to Rutgerswerke Aktiengesellschaft. Process for preparing 3,5-dimethylphenol from isophorone. 3,641,166, 2-8-72, Cl. 260-621.
Ruhl, Rudolf, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Unit construction for turbine housing bottoms. 3,640,639, 2-8-72, Cl. 415-219.
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Ruhlandt, Gerald K., to General Motors Corporation. Automatic mechanical die spray apparatus. 3,633,651, 1-11-72, Cl. 164-267.
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Rumanowski, Edmund J., to Tenneco Chemicals, Inc. N-cycloalkylchlorobenzylidenimines and herbicidal compositions containing same. 3,637,851, 1-25-72, Cl. 260-566.
Rumanowski, Edmund J., to Allied Chemical Corporation. Alkyl-N-alkyl-chlorophenoxythioacetimidates as selective herbicides. 3,647,413, 3-7-72, Cl. 71-98.
Rumanowski, Edmund J., to Tenneco Chemicals, Inc. Process for the control of plant growth with substituted N,N'-bis(haloacetyl)-o-phenylene diamines. 3,661,552, 5-9-72, Cl. 71-118.
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Rummel, Samuel L., to Garrett Corporation, The. Inflatable slide and raft apparatus. 3,679,025, 7-25-72, Cl. 182-20.000.
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Rushmere, John Derek, to Du Pont de Nemours, E. I., and Company. Process for the manufacture of hydrogen cyanide. 3,647,388, 3-7-72, Cl. 23-151.
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Russell, Lewis K.; and Banks, James L., to Signetics Corporation. Means including a spark gap for protecting an integrated circuit from electrical discharge. 3,676,742, 7-11-72, Cl. 317-33.00r.
Russell, Lewis Keith, to Signetics Corporation. Learning circuit. 3,701,974, 10-31-72, Cl. 340-172.500.
Russell, Linus E., to Peters and Russell, Inc. Pressure responsive switch with differential and range adjusting means including a differential nut. 3,636,288, 1-18-72, Cl. 200-83.
Russell, Linus E., to International Telephone and Telegraph Corporation, mesne. Water pressure and like systems. 3,702,742, 11-14-72, Cl. 417-25.000.
Russell, Luther J. Tethered aerial top. 3,643,373, 2-22-72, Cl. 46-61.
Russell, Marie D.: *See—*
Russell, Kenneth F., 3,633,732.
Russell, Peter B.: *See—*
Rees, Richard W.; and Russell, Peter B., 3,637,688.
Wolfe, Milton; Diebold, James L.; Russell, Peter B.; and Bell, Stanley C., 3,704,292.
Russell, Peter B.; Fletcher, Horace, III; and Alburn, Harvey E., to American Home Products Corporation. Bialicyclic amino acids. 3,704,312, 11-28-72, Cl. 260-514.00r.
Russell, Phillips G.; Guggenbickler, Leon E.; and Crawford, John H., to Brand S Corporation. Sheet stacking apparatus. 3,675,791, 7-11-72, Cl. 214-60.00k.
Russell, Raymond Sidney. Water borne amphibious vehicle. 3,683,840, 8-15-72, Cl. 115-19.000.
Russell, Richard Douglas; deceased (by Russell, Ada Gwennola; administratrix). Correct printing indicator. 3,650,240, 3-21-72, Cl. 116-114.
Russell, Richard E., to Superior Tube Company. Tube rolling mill employing a tapered mandrel and a cluster of rolls that each have specially designed tube contacting grooves. 3,688,540, 9-5-72, Cl. 72-208.000.
Russell, Robert G., to Owens-Corning Fiberglas Corporation. Method and apparatus for producing filaments by centrifugal forces. 3,644,108, 2-22-72, Cl. 65-8.
Russell, Robert G., to Owens-Corning Fiberglas Corporation. Method of coating glass fibers. 3,676,094, 7-11-72, Cl. 65-3.000.
Russell, Robert G., to Owens-Corning Fiberglas Corporation. Method and apparatus for production of glass fibers. 3,695,858, 10-3-72, Cl. 65-2.000.
Russell, Robert Gordon: *See—*
Jackson, Albert Edward; and Russell, Robert Gordon, 3,659,751.
Russell, Robert S.: *See—*
Ashton, William H.; and Russell, Robert S., 3,684,197.
Russell, Robert W.: *See—*
Zwelling, Martin I.; and Russell, Robert W., 3,691,498.
Russell, Ronald R. Child-proof container. 3,666,338, 5-30-72, Cl. 312-215.
Russell, Ronald W.: *See—*
Frederiksen, Thomas M.; and Russell, Ronald W., 3,648,154.
Russell, Sid: *See—*
Russell, Cornelius R.; and Russell, Sid, 3,655,537.
Russell, Stanley L.: *See—*
Gueldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., 3,676,606.
Gueldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., 3,679,835.
Gueldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., 3,707,140.
Gulldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., 3,702,380.
Pommerening, Uwe A.; and Russell, Stanley L., 3,697,695.
Russell, Thomas B.: *See—*
Mulcahy, Harry W.; and Russell, Thomas B., 3,675,350.
Russell, Thomas E., to Flintkote Company, The. Pressure-sensitive hot-melt adhesives. 3,635,861, 1-18-72, Cl. 260-27.
Russell, Thomas E., to Flintkote Company, The. Pressure-sensitive hot-melt adhesives. 3,686,107, 8-22-72, Cl. 260-270.
Russell, Thomas L.: *See—*
Russell, Kenneth F., 3,633,732.
Russell, William C., to Eastman Kodak Company. Electronically controlled variable rate film feeding mechanism for motion picture projectors. 3,702,730, 11-14-72, Cl. 352-191.000.
Russell, William G., to Electrohome Limited. Signal translating networks and control circuits for the tuners of signal receivers. 3,673,523, 6-27-72, Cl. 334-15.000.
Russell, William G., to Electrohome Limited. Switching network for dual tuners of a TV receiver. 3,693,091, 9-19-72, Cl. 325-319.000.
Russell, William G., to Electrohome Limited. AGC impedance converter for varactor diode tuner. 3,693,092, 9-19-72, Cl. 325-319.000.
Russell, William G., to Electrohome Limited. AGC impedance converter and voltage level shifter for high impedance source. 3,693,093, 9-19-72, Cl. 325-319.000.
Russell, William G., to Electrohome Limited. AFT system for signal receiver of type having tuner employing varactor diode. 3,705,356, 12-5-72, Cl. 325-465.000.
Russell, William H.: *See—*
Taber, Robert C.; and Russell, William H., 3,647,459.
Russell, William H., to Robertshaw Controls Company. Temperature sensing device and apparatus utilizing the same. 3,668,372, 6-6-72, Cl. 219-450.000.
Russell, William N.: *See—*
Balint, Laszlo J.; Lazarus, Stanley D.; and Russell, William N., 3,689,461.
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Twilley, Ian C.; Russell, William N.; and Peterson, Weldon H., 3,704,100.
Russell, William S., to Hooker Chemical Corporation. Metal coating process. 3,681,207, 8-1-72, Cl. 204-1.00t.
Russell-French, Harry M., to Boothe Airside Services, Inc., mesne. Cargo container construction. 3,645,596, 2-29-72, Cl. 312-258.
Russell-French, Harry M., to Boothe Airside Services, Inc., mesne. Cargo container construction. 3,647,100, 3-7-72, Cl. 220-1.5.
Russell-Hobbs Limited: *See—*
Hardy, Graham George; and Masters, Leonard Kenneth Morgan, 3,665,841.
Russell-Rayner, Albert Patrick: *See—*
Branch, Geoffrey Hindle; Hall, James Edward; Bickerstaff, Kenneth; and Russell-Rayner, Albert Patrick, 3,680,677.
Russen, Albert, to International Standard Electric Corporation. Magnetostrictive filter and strain gauge. 3,639,861, 2-1-72, Cl. 333-71.
Russenberger, Max E.: *See—*
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McConnell, Wayne V.; Bond, James H.; and Russin, Nicholas C., 3,663,600.
Russmann, Horst; and Determann, Helmut, to Biotest-Serum-Institut, GmbH. Apparatus for sterile material exchange. 3,705,652, 12-12-72, Cl. 210-321.000.
Russo, Andrew, Jr., to General Motors Corporation. Hermaphroditic terminal. 3,644,872, 2-22-72, Cl. 339-47.
Russo, Baldassare, Jr.: *See—*
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Russo, Carmela Mary; and Russo, Baldassare, Jr. Expansion joint. 3,672,707, 627-72, Cl. 285-229.000.
Russo, Filippo: *See—*
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Russo, Michael E.: *See—*
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Russo, Paul; and Mowogrozki, Markus, to Polyflon Corporation. Variable capacitor. 3,675,093, 7-4-72, Cl. 317-249.00r.
Russo, Paul, to Polyflon Corporation. Capacitor. 3,678,349, 7-18-72, Cl. 317-243.000.
Russo, Robert R.: *See—*
MacFarlane, Walter J.; and Russo, Robert R., 3,665,550.
Russo, Robert Ritter, to RCA Corporation. Process for forming an isolated circuit pattern on a conductive substrate. 3,682,785, 8-8-72, Cl. 204-15.000.
Russo, Robert Ritter, to RCA Corporation. Process for forming a conductive coating on a substrate. 3,704,208, 11-28-72, Cl. 204-15.000.
Russo, Robert V.: *See—*
Castner, Claire J.; Russo, Robert V.; and Berard, Raymond A., 3,670,050.
Russo, Ronald D.: *See—*
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Rust, Charles M.: *See—*
Roberts, Thomas G.; Ehrlich, John J.; Hutcheson, Guilford J., Jr.; and Rust, Charles M., 3,642,007.
Rust, John B., to Hughes Aircraft Company. Photopolymerizable composition useful in heat fixation process. 3,642,487, 2-15-72, Cl. 96-115.
Rust, John B., to Hughes Aircraft Company. Photopolymerization of vinyl monomers using a photo-oxidant dye-triorgano phosphine or arsine catalyst system. 3,649,495, 3-14-72, Cl. 204-159.24.
Rust, Kurt: *See—*
Diedrich, Bernd; Keil, Karl Diether; and Rust, Kurt, 3,676,414.
Diedrich, Bernd; Keil, Karl Diether; and Rust, Kurt, 3,676,415.
Rust, William, to Simon Handling Engineers Limited. Apparatus and method for incremental batch weighing. 3,690,391, 9-12-72, Cl. 177-1.000.
Rustad, Stanley C.: *See—*
Blixrud, John O.; Knigge, Wayne I.; Rustad, Stanley C.; and Tsuchiya, Takuzo, 3,672,294.
Rustako, Anthony Joseph, Jr.; and Yeh, Yu Shuan, to Bell Telephone Laboratories, Incorporated. Diversity system for mobile radio using fade rate switching. 3,693,088, 9-19-72, Cl. 325-56.000.
Rustan, B., A/S: *See—*
Rustan, Birger, 3,682,670.
Rustan, Birger, to Rustan, B., A/S. Process for the preparation of fiber-containing plaster products. 3,682,670, 8-8-72, Cl. 106-110.000.
Ruster, Heinz: *See—*
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Ruster, Heinz; and Schwanck, Gunter, said Schwanck assor. to International Standard Electric Corporation. Mounting of the dial switch. 3,637,949, 1-25-72, Cl. 179-100.
Ruster, Heinz; and Schwanck, Gunter, to International Standard Electric Corporation. Cradle switch. 3,637,953, 1-25-72, Cl. 179-164.
Rustin, Francis R.: *See—*
Jackson, Dennis E.; and Rustin, Francis R., 3,656,506.
Ruston, Reginald, to Rowlands Electrical Accessories Limited. Electric lampholder. 3,686,621, 8-22-72, Cl. 339-67.000.
Ruszczyk, James F.; and Secrist, Duane R., to International Business Machines Corporation. Air bearing magnetic head with glass slider body. 3,670,112, 6-13-72, Cl. 179-100.20p.
Ruszczyk, James F.; and Secrist, Duane R., to International Business Machines Corporation. Method of manufacturing ferrite recording heads with a multipurpose devitrifiable glass. 3,681,044, 8-1-72, Cl. 65-33.000.
Rusztowicz, John W. Gripping tool. 3,667,798, 6-6-72, Cl. 294-104.
Rutchik, Walter L.: *See—*
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Halbeck, Werner B.; Quaal, John A.; Robbins, Clyde F.; Rutchik, Walter L.; and Ryczek, Lawrence J., 3,706,916.
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Rutenberg, Morton Wolf: *See—*
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Ruter, Elisabeth: *See—*
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Ruter, Hermann; deceased (by Ruter, Elisabeth; and Ruter, Edla; heirs); Cherdron, Egon; Haerter, Manfred; and Bayer, Gerhard, to Gebr. Giulini G.m.b.H. Process for manufacture of pig iron or steel. 3,663,202, 5-16-72, Cl. 75-38.000.
Ruter, Lewis L. Holder. 3,640,494, 2-8-72, Cl. 248-42.
Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballad, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatolylvanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, to Tsentralny Nauchno-Issledovatelsky Institut Chernoi Metallurgia imeni I.P. Bardina. Mixture for protecting surface of metalin process of casting. 3,685,986, 8-22-72, Cl. 75-96.000.
Rutgerswerke Aktiengesellschaft: *See—*
Buffleb, Herbert; Franck, Heinz Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; and Zander, Maximilian, 3,655,802.
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Franck, Heinz-Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; Zander, Maximilian; Erunlu, Recep Kemalettin; Storch, Gunter; Buffleb, Herbert; and Sauerland, Hans-Dieter, 3,636,178.
Maurer, Manfred; Orth, Winfried; and Rappen, Ludwig, 3,632,807.
Ruhl, Karl; Franck, Heinz-Gerhard; and Turowski, Johannes, 3,641,166.
Wegener, Otto; Oberkobusch, Rudolf; Collin, Gerd; Zander, Maximilian; and Buffleb, Herbert, 3,654,135.
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Ruth, Arthur P.: *See—*
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Ruth, Arthur P. Timed animal feeder. 3,678,902, 7-25-72, Cl. 119-51.110.
Ruth, Fred N. Electrical wire connector. 3,654,588, 4-4-72, Cl. 339-89.
Ruth, Harold C.; and Thompson, James W., to A-T-O Inc., mesne. Road maintainer attachment. 3,698,487, 10-17-72, Cl. 172-305.000.
Ruth, Richard L.; and Shelly, William A., to Honeywell Information Systems Inc., mesne. Bidirectional transmission data line connecting information processing equipment. 3,643,223, 2-15-72, Cl. 340-172.5.
Ruth, Richard L., to Honeywell Information Systems Inc. Multiple mask registers for servicing interrupts in a multiprocessor system. 3,676,861, 7-11-72, Cl. 340-172.500.
Ruthardt, Konrad: *See—*
Reichelt, Walter; Ruthardt, Konrad; and Speidel, Hermann, 3,672,850.
Ruthenberg, Ross E.; and Spells, Joseph W., Jr., to Motorola, Inc. Amplifier protection circuit responsive to temperature and overcurrent. 3,646,397, 2-29-72, Cl. 317-16.
Rutherford, Harry T. Safety rotary mower. 3,680,295, 8-1-72, Cl. 56-320.200.
Rutherford, Harry T. Safety mower and leaf harvester-mulcher. 3,706,189, 12-19-72, Cl. 56-13.400.
Rutherford, Kenneth R.; and Strathman, Lyle R., to Collins Radio Company. Asynchronous pulse information clock phase imparted shift register decoder. 3,638,192, 1-25-72, Cl. 340-168.
Rutherford, Kenneth R.; Hooker, Marvin L., Jr.; and Alibrandi, Joseph P., to Collins Radio Company. Pulse processing circuit having improved range resolution. 3,671,866, 6-20-72, Cl. 325-322.000.
Rutherford, Kenneth R.; and Strebe, Arthur C., to Collins Radio Company. Pulse train framing and intermediate pulse spacing accuracy test circuit. 3,680,091, 7-25-72, Cl. 343-6.50r.
Rutherford, Robert C.: *See—*
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Rutherford, Robert Mark: *See—*
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Rutherford, Russell G. Fluid operated piston for metering gravity fed material. 3,637,116, 1-25-72, Cl. 222-309.
Rutherford, Walter H.: *See—*
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Ruthroff, Clyde Leslie, to Bell Telephone Laboratories, Incorporated. Modulator compensated for varying modulating signal level. 3,651,429, 3-21-72, Cl. 332-18.
Ruti Machinery Works, Ltd.: *See—*
Freihofer, Alexis, 3,665,976.
Jud, Karl, 3,695,302.
Kunz, Max, 3,680,598.
Strauss, Edgar H., 3,640,313.
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Rutkin, Edwin S.: *See—*
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Rutkowski, Beverly J., to Whirlpool Corporation. Method to prevent glassware etching in a dishwasher. 3,677,820, 7-18-72, Cl. 134-25.00a.
Rutkowski, Eugene V., to TRW Inc. Rocket powered ground effect machine. 3,667,567, 6-6-72, Cl. 180-117.000.
Rutkowski, Joseph. Underwater propulsion device. 3,635,188, 1-18-72, Cl. 115-6.1.
Rutkowski, Karl: *See—*
Gerke, Peter; Rutkowski, Karl; and Bock, Helmuth Joachim, 3,655,922.
Gerke, Peter; Rutkowski, Karl; Bock, Helmuth; and Palsa, Helmut, 3,665,110.
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Rutledge, Nolan W.; Mercer, Ronald H.; and Hill, Herbert Charles, Jr. Wire coating process and apparatus. 3,673,982, 7-4-72, Cl. 118-641.000.
Rutledge, Thomas F.: *See—*
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Rutledge, Thomas F., to Atlas Chemical Industries, Inc. Catalytic copolymerization of acetylene and monoolefins. 3,671,604, 6-20-72, Cl. 260-677.000.
Rutledge, Thomas F., to Atlas Chemical Industries, Inc. Sequestrant compositions. 3,696,044, 10-3-72, Cl. 252-180.000.
Rutner, Herman, to Pfizer Inc. Analogues of lapachol as antitumor agents. 3,655,699, 4-11-72, Cl. 260-396.
Rutowski, Alfred J., to Esso Research and Engineering Company. Neodecanoic acid as a post-emergent herbicide. 3,645,716, 2-29-72, Cl. 71-113.
Rutt, Paul A., to Tenneco Inc. Exhaust diffuser. 3,685,615, 8-22-72, Cl. 181-35.00r.
Rutt, Truman C., to NL Industries, Inc. Ceramic capacitors. 3,679,950, 7-25-72, Cl. 317-258.000.
Rutten, Hendrikus S.; Kruisman, Gerard; de Groot, Johan; Westra, Simon; and Bavelaar, Abraham P., to Shell Oil Company. One-point mooring buoy for loading or unloading ships. 3,651,525, 3-28-72, Cl. 9-8.
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Ruttener, Erwin: *See—*
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Rutter, Carlton G.; and Maione, Joseph R., to Texas Instruments, Incorporated. Strip guide. 3,650,455, 3-21-72, Cl. 228-6.
Rutter, Carlton G.; Barry, Richard F.; and McLennan, Frank J., to Texas Instruments, Incorporated. Apparatus for making edgelay thermostatic bimetals. 3,707,617, 12-26-72, Cl. 219-137.000.
Rutter, Kenneth A. End fittings for flexible drive cables. 3,686,896, 8-29-72, Cl. 64-4.000.
Ruttkay, Adam: *See—*
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Rutulis, Uldis; and Layton, Edward Stowe, to Northern Electric Company Limited. Gain stabilized parametric device. 3,646,463, 2-29-72, Cl. 330-4.9.
Rutz, Elisabeth M., to International Business Machines Corporation. Optical pulse communication system using a pseudo-random sequence for synchronization. 3,699,344, 10-17-72, Cl. 250-199.000.
Rutz, Hans; and Gubler, Kurt, to Ciba-Geigy Corporation. Insecticidal and acaricidal compositions. 3,674,874, 7-4-72, Cl. 424-273.000.
Rutz, Hansrudolf; and Schmollinger, Tassilo, to Aktiengesellschaft Brown, Boveri & Cie. Dust seal for electric motors. 3,673,445, 6-27-72, Cl. 310-88.000.
Rutzki, nee Wilke, Edith. Safety belts. 3,682,498, 8-8-72, Cl. 280-150.0ab.
Ruyle, William V.: *See—*
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Shen, Tsung-Ying; Ruyle, William V.; Walford, Gordon L.; and Witzel, Bruce E., 3,655,679.
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Ruyle, William V.; Sarett, Lewis H.; and Matzuk, Alexander R., to Merck & Co., Inc. Phenyl benzoic acid compounds in compositions and methods for treating inflammation. 3,674,870, 7-4-72, Cl. 424-230.000.
Ruyle, William V.; Sarett, Lewis H.; and Matzuk, Alexander R., to Merck & Co., Inc. Substituted phenyl benzoic acid compounds. 3,681,445, 8-1-72, Cl. 260-520.000.
Ruzin, Ivan Mikhailovich: *See—*
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Ryall, Michael Leslie; Pezzani, Guido; and Bocking, Albert, to Weir Pumps Limited. Fluid machines. 3,692,426, 9-19-72, Cl. 415-207.000.
Ryan Aeronautical Co., The: *See—*
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Ryan, T. Claude; and Girard, Peter F., 3,637,168.
Ryan, Allen L.: *See—*
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Ryan, Arthur B.: *See—*
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Ryan, Charles Francis, to Rohm & Haas Company. Modified vinyl halide polymers. 3,678,133, 7-18-72, Cl. 260-876.00r.
Ryan, Charles W., to Lilly, Eli, and Company. 3,7-(Ring-substituted) cephalosparin compounds. 3,641,021, 2-8-72, Cl. 260-243.
Ryan, Charles W., to Lilly, Eli, and Company. Isomer resolution. 3,705,900, 12-12-72, Cl. 260-284.000.
Ryan, Daniel J., to FMC Corporation. High tenacity resinous packaging strap. 3,639,530, 2-1-72, Cl. 260-897.
Ryan, Donald J.; Ledet, Winston P.; and Colvin, James R. Apparatus and method for removing floating pollutants from a body of water. 3,656,619, 4-18-72, Cl. 210-83.000.
Ryan, Edward Clyde. Position control for parallel hydraulic systems on an agricultural implement. 3,700,041, 10-24-72, Cl. 172-316.000.
Ryan, Edwin B.: *See—*
Eckles, Paul N.; and Ryan, Edwin B., 3,689,737.
Ryan, Francis W.; and Schonhorn, Harold, to Bell Telephone Laboratories, Incorporated. Technique for enhancing the ability of polymer to bond with adhesive and resultant polymer. 3,635,938, 1-18-72, Cl. 260-94.9.
Ryan, Fred C.: *See—*
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Ryan, Frederick M.: *See—*
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Ryan, George H.; and Randolph, Ross W., to Motorola, Inc. Carrier and tone squelch circuit with elimination of noise at end of transmission. 3,654,555, 4-4-72, Cl. 325-348.
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Sabatka, Winston E.; Bloomquist, Wilburn M.; and Reinke, Raymond W., to Finishing Equipment and Supply Co., Inc. Apparatus for liquid treatment of flat materials. 3,643,670, 2-22-72, Cl. 134-117.
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Sabi, Nestor, to Edwards Engineering Corporation. Apparatus for controlling pressure in a well. 3,693,732, 9-26-72, Cl. 175-25.000.
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Sable, Chester A., to Anthony Industries, Inc. Exhaust stack for outdoor heaters. 3,636,853, 1-25-72, Cl. 98-78.
Sable, Donald E. Sucker rod guide. 3,650,579, 3-21-72, Cl. 308-4.
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Sachnik, Norman H., to Range Engineering Development Corporation. Material treating apparatus. 3,650,199, 3-21-72, Cl. 99-235.
Sachnik, Norman H. Foam generating nozzle. 3,701,482, 10-31-72, Cl. 239-590.300.
Sachnik, Norman Henry. Controlling agricultural chemical spray drift with foam. 3,692,512, 9-19-72, Cl. 71-65.000.
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Sachs, Frederic, to Compagnie Centrale Sicli Societe Anonyme. Refillable fire extinguisher. 3,650,329, 3-21-72, Cl. 169-31.
Sachs, Frederic; and Vanotti, Guy, to Compagnie Centrale Sicli. Fire extinguisher. 3,667,549, 6-6-72, Cl. 169-31.00r.
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Sachs, Maxwell. Footwear. 3,686,779, 8-29-72, Cl. 36-2.50w.
Sachs, Roger Norman, to National Nail Pty. Ltd. Fence dropper. 3,671,017, 6-20-72, Cl. 256-47.000.
Sachs, Samuel B.; and Riley, Robert L., to United States of America, Interior. Semipermeable membranes. 3,676,203, 7-11-72, Cl. 117-123.00d.
Sachs, Sidney. Modular animal cage system. 3,662,713, 5-16-72, Cl. 119-18.000.
Sack, Ernst Theodor, to Maschinenfabrik Sack GmbH. Roller tables. 3,664,167, 5-23-72, Cl. 72-251.
Sack, John J., to Allied Chemical Corporation. Air bay restraint system. 3,638,755, 2-1-72, Cl. 181-36.
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Sacks, Alvin H. Device for evacuating containers. 3,672,114, 6-27-72, Cl. 53-88.000.
Sacks, Barry H., to United States of America, National Aeronautics and Space Administration. Magnetically actuated tuning method for Gunn oscillators. 3,694,771, 9-26-72, Cl. 331-107.00g.
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Sadakata, Kazuo; Sasaki, Minoru; Hirose, Masahiro; Nakamura, Yasuo; Mikida, Yukio; Ito, Kazuo; and Kimura, Kuninobu, to Mitsubishi Rayon Co., Ltd. Polypropylene fibers of improved dyeability containing a terpolymer of a vinylpyridine and alkyl acrylates ormethacrylates. 3,639,513, 2-1-72, Cl. 260-878.
Sadamatsu, Shigeru: *See—*
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Sadamori, Noboru, to Daito Mfg. Co., Ltd. Fuse-melt type apparatus for intercepting flow of an overheated medium through a duct. 3,633,600, 1-11-72, Cl. 137-77.
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Saddler, Rupen L. Cloth article provided with test tab. 3,698,016, 10-17-72, Cl. 2-243.00r.
Sade, Martin. Motor driven aquatic device. 3,693,577, 9-26-72, Cl. 115-70.000.
Sadee, Constant P. M.; and Koenders, Henricus A. A., to Stamicarbon N.V. Process of preparing synthesis gas. 3,687,866, 8-29-72, Cl. 252-373.000.
Sadle, Alexander, to Allied Chemical Corporation. Method for purifying tris(β-hydroxyalkyl)isocyanurates. 3,660,392, 5-2-72, Cl. 260-248.
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Sadogierski, Walter C., to Guardian Electric Manufacturing Company. Push button switch assembly with improved discrete and identical geometric shaped interlocking slider means. 3,671,686, 6-20-72, Cl. 200-5.0ea.
Sadow, Bernard D., to United States Luggage Corporation. Rolling luggage. 3,653,474, 4-4-72, Cl. 190-18.
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Sadran, Gerard Henri, to Ciments Lafarge S.A. Aluminous cement-tricalcium silicate binders. 3,645,750, 2-29-72, Cl. 106-104.
Sadwith, Howard M., to Industrial Washing Machine Corporation. Method for washing industrial articles. 3,645,791, 2-29-72, Cl. 134-25.
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Sadwith, Howard M., to Industrial Washing Machine Corporation. Case washing machine. 3,675,665, 7-11-72, Cl. 134-46.000.
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Saeki, Haruji, to Shionogi & Co., Ltd. Apparatus for chamfering tablets. 3,668,751, 6-13-72, Cl. 29-76.000.
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Saeki, Yoshifumi, to Pioneer Electronic Corporation. Switching circuit. 3,659,120, 4-25-72, Cl. 307-253.
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Saenger, Franz; and Straub, Dieter, to Licentia Patent-Verwaltungs-G.m.b.H. Parallel binary carry look-ahead adder system. 3,700,875, 10-24-72, Cl. 235-175.000.
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Saffer, Charles M., Jr. Cigar smoke filter and method for improving the quality of cigar smoke. 3,636,957, 1-25-72, Cl. 131-10.
Saffir, Jacob A., to Dentsply International, Inc. Adhesive dental filling material and method of using the same. 3,660,343, 5-2-72, Cl. 260-37.
Saffir, Jacob A., to Dentsply International Inc. Eyeglass frame with cavities for storing contact lenses. 3,663,099, 5-16-72, Cl. 351-158.
Safford, Earl A. Collapsible support for a receptacle. 3,658,282, 4-25-72, Cl. 248-98.
Saffro, Dennis W. Preformed surgical sponge. 3,705,585, 12-12-72, Cl. 128-303.100.
Saffron, Ronald G., to Hayssen Manufacturing Company, mesne. Blow-moulding machines. 3,659,998, 5-2-72, Cl. 425-326.
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Safko, John, Jr.; and McDowell, Glenn S. Conveyor chain and control method. 3,653,491, 4-4-72, Cl. 198-171.
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Safrit, Sam C., to Hanes Corporation. Combination garments and method of making same. 3,678,514, 7-25-72, Cl. 2-212.000.
Safstrom, Alden L. Capacitor discharge ignition system. 3,658,044, 4-25-72, Cl. 123-148.00e.
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Sagane, Norio; Harayama, Hiroshi; and Morishima, Yotaro, to Sekisui Kagaku Kogyo Kabushiki Kaisha. Process for preparing vinyl chloride polymers or copolymers having butadiene and acrylate monomers radiation grafted thereto. 3,645,870, 2-29-72, Cl. 204-15917.
Sagane, Norio; Kuwazuru, Issei; and Katesu, Isao, to Sekisui Kagaku Kogyo Kabushiki Kaisha. Synthetic resin multicellular product whose main component is acrylonitrile and process for preparation thereof. 3,673,129, 6-27-72, Cl. 260-2.50r.
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Sagawa, Burt K., to Minnesota Mining and Manufacturing Company. Reflective platen. 3,677,643, 7-18-72, Cl. 355-91.000.
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Sagawa, Seiji; Kunihiro, Haruo; Kimura, Osamu; Numata, Kenichiro; and Inoue, Masatoshi, to Sumitomo Chemical Company Ltd. Formulation method of vulcanization accelerator. 3,686,132, 8-22-72, Cl. 252-182.000.
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Sager, Karl E.; and Nelson, Howard N., to Kimberly-Clark Corporation. Method for bonding webs employing ultrasonic energy. 3,660,186, 5-2-72, Cl. 156-73.
Sager, Karl E., to Kimberly-Clark Corporation. Method and apparatus for making bias-laid products. 3,663,330, 5-16-72, Cl. 156-190.
Sager, Karl E., to Kimberly-Clark Corporation. Method for applying adhesive to cross threads while crosslaying. 3,677,854, 7-18-72, Cl. 156-173.000.
Sager, Karl E., to Kimberly-Clark Corporation. Method and apparatus for making bias reinforced materials. 3,684,604, 8-15-72, Cl. 156-171.000.
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Sagers, Stanley M., to Advance Metal Products, Inc. Supports for detachable shelving. 3,637,183, 1-25-72, Cl. 248-235.
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Saggers, David Thomas, to Fisons Pest Control Limited. Decafluorbenzhydrol as a selective herbicide. 3,697,254, 10-10-72, Cl. 71-122.
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Sagi, Zsigmond, to Bio-Medical Sciences, Inc. Device for holding and dispensing thermometers. 3,674,176, 7-4-72, Cl. 221-135.000.
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Sagmuller, Joseph R.; Joyce, John F.; and McIntire, Hoy O., to National-Standard Company, mesne. Extrusion die assembly. 3,688,544, 9-5-72, Cl. 72-261.000.
Sagner, Gerhard; and Behner, Otto, to Farbenfabriken Bayer Aktiengesellschaft. 1,3-Thiazines. 3,651,053, 3-21-72, Cl. 260-243.
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Salahshourian, Hooshang, to General Electric Company. Stress cascade-graded cable termination. 3,644,662, 2-22-72, Cl. 174-73.

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Salaman, Roy G.; and Picchiottino, John B., to Phonocopy, Inc., mesne. Synchronized or unsynchronized partial response binary signalling. 3,674,922, 7-4-72, Cl. 178-6.000.

Salamon, Wolfgang; and Fath, Werner, to Vereinigte Flugtechnische Werke-Fokker GmbH. Circuit for determining defective control circuits in a plural circuit flight control system. 3,663,879, 5-16-72, Cl. 318-564.000.

Salamony, James E.; and Starnes, William H., Jr., to Esso Research and Engineering Company. Coal liquefaction using carbon radical scavengers. 3,700,583, 10-24-72, Cl. 208-8.000.

Salata, Eugene A., to United States of America, Navy. Sexless hose coupling. 3,700,269, 10-24-72, Cl. 285-78.000.

Salatiello, Peter P.: *See*—
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Salaun, Harold L., Jr.: *See*—
Kotter, James I.; Salaun, Harold L., Jr.; and Brown, Roger S., 3,696,603.
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Salava, Roger F. Postage calculator. 3,635,297, 1-18-72, Cl. 177-5.

Salava, Roger F., to Motorola, Inc. Binary signal utilization and selective address detection system. 3,681,760, 8-1-72, Cl. 340-172.500.

Salazar, Rafael D. Table leg assembly. 3,637,242, 1-25-72, Cl. 287-23.

Salbert, George R.: *See*—
Hancock, John B.; and Salbert, George R., 3,657,775.

Salce, John E.: *See*—
Bazinet, Wilfred P., Jr.; and Salce, John E., 3,681,164.

Salcedo, Guido; and Graves, Jimmy J.; deceased (by Graves, Marlene D.; heir), to Echo Science Corporation, mesne. Video tape scanner with adjustably mounted transducers providing chordal adjustment. 3,679,838, 7-25-72, Cl. 179-100.2ca.

Sale, Oliver H., Jr.; and Fincher, James R. Structural element for use in the construction of panels, modules, and building structures. 3,685,229, 8-22-72, Cl. 52-618.000.

Sale-Niagara, Inc.: *See*—
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Saleck, Wilhelm: *See*—
Huckstadt, Harald; Saleck, Wilhelm; Randolph, August; Moll, Franz; and Ranz, Erwin, 3,640,715.
Huckstadt, Harald; Saleck, Wilhelm; Randolph, August; and Moll, Franz, 3,647,469.
von Konig, Anita; Moll, Franz; Muller-Bardorff, Wolfgang; and Saleck, Wilhelm, 3,640,719.

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Saleeba, Wallace: *See—*
Argraves, Neil E.; and Mann, David A. (said Neil & Argraves assor. to), 3,706,170.
Saleen Development Corporation: *See—*
Prince, Martin; Blanck, Hillard; and Tarancon, Gregorio, 3,667,191.
Salem, Eli; Butterworth, Donald J.; and Ryan, Leo F., to Ecodyne Corporation, mesne. Regeneration of anion exchange resins. 3,645,921, 2-29-72, Cl. 260-2.1.
Salem Equipment, Inc.: *See—*
Reed, Gaylard O., 3,650,171.
Reed, Gaylard O., 3,664,395.
Salem Tool Company, The: *See—*
Young, William G.; and Horning, Frederick G., 3,663,062.
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Salemi, Nicholas A., to Westinghouse Electric Corporation. Support module for reverse osmosis membrane. 3,707,234, 12-26-72, Cl. 210-321.000.
Salemink, Willard L. Heating system for storage tank. 3,661,141, 5-9-72, Cl. 126-343.50a.
Salemink, Willard L. Portable apparatus for removing particulate material from exhaust gases. 3,690,039, 9-12-72, Cl. 55-228.000.
Salenbien, Albert L., Jr.; and Wood, William D., to Worldtronic Inc. Production monitoring system for plurality of work stations. 3,686,653, 8-22-72, Cl. 340-213.00q.
Salensky, George A., to Union Carbide Corporation. Epoxy solders. 3,635,860, 1-18-72, Cl. 260-23.7.
Salerni, John V.: *See—*
Vazquez, Gonzalo; and Salerni, John V., 3,633,668.
Salerni, John V., to Baker Oil Tools, Inc. Safety shut-off valve for controlling fluid flow from gas storage wells and reservoirs. 3,638,724, 2-1-72, Cl. 166-224.
Sales & Services, Inc.: *See—*
Wilson, Earl, 3,635,382.
Sales Promotion Products, Inc.: *See—*
Gilmoure, Harold J., 3,675,356.
Salesin, Eugene Dennis; and Harvey, Robert Calvin, to Eastman Kodak Company. Photographic element containing acrylic latex polymers. 3,632,342, 1-4-72, Cl. 96-68.
Salfer, Donald C. Attachment for portable drills. 3,698,827, 10-17-72, Cl. 408-92.000.
Salger, Werner: *See—*
Cranskens, Georg; Jakobson, Hans; Rathje, Armin; and Salger, Werner, 3,641,907.
Salgo, Reinhold C., to General Electrodynamics Corporation. Television camera storage tube having continual readout. 3,649,866, 3-14-72, Cl. 315-11.
Saliaris, George P.: *See—*
Beth, Donald; Saliaris, George P.; and Welch, Ralph A., 3,650,774.
Saliga, Thomas V., to Honeywell Inc. Notch filter. 3,659,212, 4-25-72, Cl. 328-167.
Saligny, Claude: *See—*
Bolliand, Robert; and Saligny, Claude, 3,677,855.
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Salihi, Jalal I.; Brockman, John J.; and Spix, George J., to General Motors Corporation. Induction motor braking system. 3,688,171, 8-29-72, Cl. 318-211.000.
Salihi, Jalal T.; and Shimer, Daniel W., to General Motors Corporation. Voltage control for a motor supply system. 3,659,168, 4-25-72, Cl. 318-227.
Salihi, Jalal T., to General Motors Corporation. Suppression of torque modulation in electric motor drive systems by frequency control. 3,671,832, 6-20-72, Cl. 318-231.000.
Salim, Ehsan: *See—*
Ullmann, Werner; Tadini, Costantino; and Salim, Ehsan, 3,655,937.
Salimov, Rafail Mamed Ogly: *See—*
Kargin, Valentin Alexeevich; Kabanov, Viktor Alexandrovich; Aliev, Kantamir Vagabovich; and Salimov, Rafail Mamed Ogly, 3,658,942.
Salinger, Fred G., to Baxter Laboratories, Inc. Range apparatus. 3,696,232, 10-3-72, Cl. 219-451.000.
Salinger, Rudolf M.: *See—*
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Salisbury, John D.; Gustavson, Marvin R.; and Foster, John S., to United States of America, Atomic Energy Commission. Geographic position locator. 3,636,323, 1-18-72, Cl. 235-150.25.
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Salisbury, Lloyd L.: *See—*
Katsuren, Roy I.; and Salisbury, Lloyd L., 3,692,161.
Salisbury, Robert E.; and Erickson, John W., to Preco, Inc. Stall control for vane axial compressors. 3,664,757, 5-23-72, Cl. 415-53.
Salk Institute for Biological Studies, The: *See—*
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Salka, Arnold I., to Chevron Research Company. Hydrocarbon feed stripping with gas stripped from the reactor effluent. 3,637,485, 1-25-72, Cl. 208-211.
Salkeld, Melvin R.: *See—*
Schramm, Lester H.; Ran[illegible], John B.; and Salkeld, Melvin R., 3,703,016.
Sallay, Stephen I.; and Childress, Scott J., to American Home Products Corporation. 3- or 4-Dichloromethylene-piperidines. 3,634,434, 1-11-72, Cl. 260-293.
Salle, Adelin E. G.: *See—*
Perrault, Jean; and Salle, Adelin E. G., 3,641,494.
Salle, Robert; Sillion, Bernard; and De Gaudemaris, Gabriel, to Institut Francais du Petrole des Carburants et Lubrifiants. Bis (phenoxybenzoyl) aromatic compounds. 3,706,803, 12-19-72, Cl. 260-591.000.
Sallee, Aaron D.: *See—*
Farnsley, Robert Lorraine, 3,656,448.
Sallee, Gary F.: *See—*
Owens, John M.; and Sallee, Gary F., 3,665,211.
Sallee, John P.: *See—*
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Saller, Franz: *See—*
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Sallmann, Alfred; and Pfister, Rudolf, to Ciba-Geigy Corporation. Pharmaceutical compositions and methods employing substituted derivatives of 2-anilinophenylacetic acids and esters. 3,652,762, 3-28-72, Cl. 424-60.
Sallmann, Alfred; and Pfister, Rudolf, to Ciba-Geigy Corporation. Tetrazole derivatives. 3,691,191, 9-12-72, Cl. 260-308.00d.
Sallmann, Alfred; and Pfister, Rudolf, to Ciba-Geigy Corporation. Basic derivatives of 5H-dibenz [b,f] azepines. 3,706,735, 12-19-72, Cl. 260-239.00d.
Sallo, Richard L.; and Stricker, Charles D., to United States Steel Corporation. Method for the electrolytic removal of drawing or rolling lubricants on steel strands. 3,668,090, 6-6-72, Cl. 204-145.00r.
Salloum, Charles R. Parking device. 3,667,160, 6-6-72, Cl. 49-35.
Salloum, Charles R. Rotary vehicle parking system with ramp and turntable arrangement. 3,672,517, 6-27-72, Cl. 214-16.10a.
Salm, Vincent A.: *See—*
Salm, Vincent A.; and Carter, Daniel B. (said Carter assor. to said), 3,650,529.
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Cassen, Quentin C.; Luisi, James A.; and Salman, Naif D., 3,671,948.
Motley, David M.; and Salman, Naif D., 3,669,511.
Salmansohn, Max A.; and La Monica, Daniel A., to Non-Acoustic Audio Corporation. Electrostatic electroacoustic transducer. 3,689,709, 9-5-72, Cl. 179-111.00r.
Salmassy, Oscar E.; and Sullivan, Robert E., to International Business Machines Corporation. Statistical and environmental data logging system for data processing storage subsystem. 3,704,363, 11-28-72, Cl. 235-153.000.
Salmen, Fritz: *See—*
Dechene, Walter; Rothe, Herbert; and Salmen, Fritz, 3,683,662.
Salmi, Victor John, III, to General Refractories Company. Preassembly of refractory brick and lining furnaces therewith. 3,646,722, 3-7-72, Cl. 52-745.
Salmin, Valery Vasilievich; and Nechaev, Ivan Petrovich. Packing of electrodes in an electric arc furnace. 3,683,095, 8-8-72, Cl. 13-17.000.
Salminen, Wilho M.: *See—*
Groet, Nicholas H.; and Salminen, Wilho M., 3,703,375.
Salmon, David; Wierzbicki, Edward J.; Langston, Benny; and Beegle, Donald W., to U.S. Reduction Co. Mechanical puddler. 3,703,340, 11-21-72, Cl. 416-79.000.
Salmon, Isidore William: *See—*
Krechmer, Kenneth Robert; and Salmon, Isidore William, 3,634,656.
Salmon, Jacques, to CSF-Compagnie Generale de Telegraphie Sans Fil. Parabolic antennas. 3,688,311, 8-29-72, Cl. 343-755.000.
Salmon, Kurt, Associates, Inc.: *See—*
Theodorsen, Theodore E., 3,642,400.
Salmon, Leonard M. Rotary pump and power transmission system. 3,672,168, 6-27-72, Cl. 60-53.00r.
Salmond, Kent A.: *See—*
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Salnikov, Jury Nikolaevich: *See—*

Ioffe, Benyamin Alexandrovich; Mikelson, Artur Eduardovich; Makhlin, Aron Judovich; Lapidus, Mikhail Khaimovich; Salnikov, Jury Nikolaevich; Kazhe, Alexandr Zhanovich; and Trushelis, Ivan Avgustovich, 3,651,439.

Salomon, George P. J. Safety front holding member for ski boot. 3,632,123, 1-4-72, Cl. 280-11.35.

Salomon, Georges P. J. Resilient binding for skis. 3,642,298, 2-15-72, Cl. 280-11.35.

Salomon, Georges P. J. Low friction bearing arrangement for ski boot in contact with a ski. 3,677,567, 7-18-72, Cl. 280-11.35c.

Salomon, Georges P. J. Ski boot fixation device. 3,689,095, 9-5-72, Cl. 280-11.35t.

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Salomon, Georges Pierre Joseph. Safety binding device for a boot on a ski. 3,637,228, 1-25-72, Cl. 280-11.35.

Salomon, Georges Pierre Joseph. Adjustment of ski bindings. 3,686,950, 8-29-72, Cl. 73-379.00r.

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Salomon, Georges Pierre Joseph. Ski binding. 3,695,625, 10-3-72, Cl. 280-11.35t.

Salomon, Jacob. Apparatus for arranging substantially laminar articles into spaced groups. 3,662,875, 5-16-72, Cl. 198-180.000.

Salomon, Jean: *See—*
Elliott, George E., Jr.; Salomon, Jean; and Vogel, Roger F., 3,639,272.

Salonen, Albert R. Motorized shearing implement. 3,693,254, 9-26-72, Cl. 30-228.000.

Salopian Industries Metals Limited: *See—*
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Salotti, Charles A. Reduction process for removing iron from spodumene. 3,694,189, 9-26-72, Cl. 75-21.000.

Salov, Sergei Fedorovich: *See—*
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Salsbury Laboratories: *See—*
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Salter, David Stanley: *See—*
Lawson, Darryl William; and Salter, David Stanley, 3,645,864.

Salter, Frank Michael; and Dibley, John Edwin, to British Iron and Steel Research Association, The. Skids or beams for furnaces. 3,706,448, 12-19-72, Cl. 266-1.00r.

Salter, George, & Co., Ltd.: *See—*
Leadbeater, Douglas Albert, 3,701,009.

Salter, William G. Elevator system. 3,658,155, 4-25-72, Cl. 187-16.

Saltich, Jack L.: *See—*
Gurtler, Richard W.; and Saltich, Jack L., 3,699,407.

Saltich, Jack L.; and Rutledge, James L., to Motorola, Inc. Hot carrier pn-diode. 3,668,481, 6-6-72, Cl. 317-234.000.

Saltini, Fabrizio: *See—*
Cortona, Alessandro; Musso, Pietro; Saltini, Fabrizio; and Fiorenza, Giorgio, 3,641,317.

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Salton, Robert B.: *See—*
McClure, Glenn T.; and Salton, Robert B., 3,650,572.

Saltus, George E.: *See—*
Bush, Stanley E.; Olson, David T.; and Saltus, George E., 3,649,761.
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Buzzard, Clair A.; Pasternack, Gerald P.; and Saltzberg, Burton R., 3,649,759.
Buzzard, Clair A.; and Saltzberg, Burton R., 3,689,844.
Lawrence, Thomas R.; and Saltzberg, Burton R., 3,697,892.
Pasternack, Gerald Philip; and Saltzberg, Burton R., 3,636,454.

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Salutsky, Murrell L.; and Shair, Salem, to Chemed Corporation. Method for controlling slime in aqueous systems. 3,690,860, 9-12-72, Cl. 71-67.000.

Saluzzi, Frank. Gun for pinch fasteners. 3,666,155, 5-30-72, Cl. 227-110.000.

Salva, Juan M.: *See—*
Gilani, Syed S. H.; Murray, Donald W.; and Salva, Juan M., 3,681,242.

Salvador, Mario O. Pipe slotter. 3,680,422, 8-1-72, Cl. 83-183.000.

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Yorgin, Nick; and Salvati, John G., 3,707,612.

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Salvert, Bernard, to Electronique Marcel Dassault. Method and a device for eliminating the noise in a transmission chain of radioelectric signals. 3,706,045, 12-12-72, Cl. 328-165.000.

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Salvi, Antoine: *See—*
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Bedker, Bruce D.; and Wunderlich, Frederich C., 3,673,832.

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Bello, Phillip A.; and Salwen, Howard C., 3,689,841.

Salyer, Ival O.: *See—*
Tapp, James S.; Beemsterboer, George L.; and Salyer, Ival O., 3,698,560.

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Salzano, George H.: *See—*
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Salzberg, Harold Karl; and Sten, Walter G., to Borden, Inc. Water resistant hair grooming compositions. 3,644,615, 2-22-72, Cl. 424-70.

Salzdetfurth, A.G.: *See—*
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Salzer, Erwin, to Chase-Shawmut Company, The. Electric low-voltage fuse having terminal bars. 3,673,533, 6-27-72, Cl. 337-161.000.

Salzer, Thomas E.: *See—*
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Salzgitter Huttenwerk Aktiengesellschaft: *See—*
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Salzmann, Ferdinand F., to Consolidated Foods Corporation. Traverse assembly for draperies and the like. 3,693,696, 9-26-72, Cl. 160-345.000.
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Salzmann, Willi. Crank assemblies for machines having reciprocating pistons. 3,695,150, 10-3-72, Cl. 92-169.000.
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Sam, Ahmad, to Standard Oil Company. Electrode fabrication. 3,666,563, 5-30-72, Cl. 136-120.
Sama, Nicholas. Filtering material. 3,656,626, 4-18-72, Cl. 210-282.
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Samaniego, Felix, to Bell & Howell Company. Magnetic printout equipment. 3,633,545, 1-11-72, Cl. 118-637.
Samartina, Anthony John, to Tasco Engineering & Supply, Inc. Hose end coupling. 3,684,319, 8-15-72, Cl. 285-247.000.
Sambell, Ronald Alfred James: *See—*
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Samberth, Joerg: *See—*
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Cohn, Eugene; Cecere, Andrew P.; and Frezza, Robert, 3,688,354.
Cohn, Eugene; and Frezza, Robert, 3,692,465.
Samczyk, Casimir S., to Bell & Howell Company. Document turnaround with improved automatic skew correction. 3,667,752, 6-6-72, Cl. 271-53.000.
Samejima, Hirotoshi; Nagano, Yuji; Ota, Shigenori; Kanzaki, Yasushi; Matsuo, Hideki; and Kuroda, Keizo, to Kyowa Hakko Kogyo Co., Ltd. Process for preparing coloring agents for foods and beverages. 3,658,557, 4-25-72, Cl. 99-148.
Samejima, Toshihide. Electronically controlled stop watch. 3,686,880, 8-29-72, Cl. 58-39.500.
Samelson, Harold: *See—*
Brecher, Charles; Pappalardo, Romano; and Samelson, Harold, 3,677,959.
Kocher, Robert; Moore, Franklin; and Samelson, Harold, 3,688,216.
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Samietz, Klaus P.; Wamser, Anton; and Weingartner, Ernst F., to Leybold-Heraeus GmbH & Co. Consumable electrode vacuum furnace. 3,665,084, 5-23-72, Cl. 13-31.
Samiran, David; Cooling, Robert O.; and Fitch, Melvin G. Dental hygiene device. 3,675,645, 7-11-72, Cl. 128-62.00a.
Samler, Lee F.; and Boone, John J., to Esso Research and Engineering Company. Carpet backing. 3,703,197, 11-21-72, Cl. 117-138.80e.
Samluk, Stanley D., to Hercules Incorporated. Beater bar with dissimilar edges. 3,650,446, 3-21-72, Cl. 225-97.
Samm, Ralph W.; Perry, Robert F.; and Dodge, David S., to I-T-E Imperial Corporation. Automatic grounding switch. 3,660,720, 5-2-72, Cl. 317-16.
Sammarco, Peter; and Zimmerman, Arnold, to International Harvester Company. Control mechanism. 3,648,538, 3-14-72, Cl. 74-491.
Sammartino, Michael; and Reese, Edward E. Collapsible garment hanger. 3,703,978, 11-28-72, Cl. 223-89.000.
Sammut, Emery J. Timer controlled vehicle heater. 3,683,887, 8-15-72, Cl. 126-116.00r.
Samodaev, Evgeny Timofeevich; Verchenko, Vasily Romanovich; Gorjunov, Vladimir Ivanovich; Andrikanis, Vladimir Konstantinovich; Ilichev, Valery Alexandrovich; Gavrin, Mikhail Grigorievich; and Binkou, Georgy Aronovich. Installation for setting and glueing acing tiles to backing material. 3,689,351, 9-5-72, Cl. 156-552.000.
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Samour, Carlos M.: *See—*
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Samour, Carlos M.; and Falxa, Martin L., to Kendall Company, The. Betaine copolymers with hydroxyalkylacrylates and hydroxyalkylmethacrylates. 3,671,502, 6-20-72, Cl. 260-79.3mu.
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Sampey, Harry R., to Pentron Electronics Corporation. Automatic guidance system. 3,642,087, 2-15-72, Cl. 180-98.
Sample, Harry, Jr., to Parker-Hannifin Corporation. Fuel injection nozzle. 3,662,959, 5-16-72, Cl. 239-533.
Sample, Thomas E., Jr.; and Tate, Jack F., to Texaco Inc. Paraffin removal process. 3,689,319, 9-5-72, Cl. 134-40.000.
Sample, Thomas E., Jr.; and Tate, Jack F. Process for paraffin removal from hydrocarbon-bearing formations. 3,693,719, 9-26-72, Cl. 166-304.000.
Sampson Corporation, The: *See—*
White, Norman S., 3,670,730.
Sampson, Gerald A.: *See—*
Schieven, Stanley R.; and Sampson, Gerald A., 3,669,448.
Sampson, Ralph D. Mobile elevating scaffolds. 3,638,757, 2-1-72, Cl. 182-63.
Sampson, Robert W.: *See—*
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Sampson, Ronald G., to Nalco Chemical Company. Compositions and processes for breaking petroleum emulsions. 3,640,894, 2-8-72, Cl. 252-344.
Sampson, Ronald G., to Nalco Chemical Company. Compositions and processes for breaking petroleum emulsions. 3,699,051, 10-17-72, Cl. 252-344.
Sampson, Roy John: *See—*
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Sampson, William B.; and Britton, Richard B., to United States of America, Atomic Energy Commission. Braided superconductor. 3,638,154, 1-25-72, Cl. 335-216.
Samra, Herb G. Advance anti-lockout vehicle parking signal having adjustable deck mounted brackets. 3,656,104, 4-11-72, Cl. 340-95.
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Sams, Gerald R.; and Watson, Robert H., to Sams, Gerald R., mesne. Pulse driver circuit apparatus. 3,648,073, 3-7-72, Cl. 307-246.
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Sams, Robert H.; Linton, Robert W.; and Horikawa, Noboru R., to Philadelphia Quartz Company. Tinted granules. 3,679,610, 7-25-72, Cl. 252-529.000.
Sams, Robert H.; Linton, Robert W.; and Weldes, Helmut H., to Philadelphia Quartz Company. Agglomerating alkali metal silicate by tumbling and rolling while heating and cooling. 3,687,640, 8-29-72, Cl. 23-313.000.
Sams, Ronald G. Survival bag. 3,695,507, 10-3-72, Cl. 229-53.000.
Samsel, Frank J. Barrier for defining a swimming area. 3,640,073, 2-8-72, Cl. 61-1.
Samson Apparatebau A.G.: *See—*
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Samson, Julie Marie, to Subbuteo Sports Games Limited. Random number selector. 3,674,275, 7-4-72, Cl. 273-138.00r.
Samson, Marvin S.: *See—*
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Samson, Robert S.: *See—*

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Samuel, Jon Michael Glen; and Rawlings, James Earl, to Diva Cars Limited; t/a Enfield Automotive. Method of making laminated motor land vehicle body. 3,686,051, 8-22-72, Cl. 156-212.000.

Samuel, Ronald A. Electric typewriter key and keyboard arrangement. 3,633,724, 1-11-72, Cl. 197-100.

Samuel, Trevor N.: *See—*
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Samueli, Fabio: *See—*
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Samuels, Abe; Mueller, Rudolph C.; and Marzec, Casimir C., to Speed-O-Print Business Machines Corporation. Manual reversing drive for photocopy machine. 3,682,550, 8-8-72, Cl. 355-133.000.

Samuels, Abe; and Mueller, Rudolph C., to Speed-O-Print Business Machines Corporation. Diverters. 3,684,280, 8-15-72, Cl. 271-64.000.

Samuels, Marvin S., 1/3 to Zuritsky, Joseph S., 1/3 to Zuritsky, Herman and 1/3 to Zuritsky, Lee. Electrolysis needle. 3,651,812, 3-28-72, Cl. 128-303.18.

Samuels, Robert B.: *See—*
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Samuels, Ronald L., to TRW Inc. Radiant energy driven orientation system. 3,635,015, 1-18-72, Cl. 60-23.

Samuels, Samuel: *See—*
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Samuels, Stanley J.; and Samuels, Samuel. Cushioned toilet seat. 3,639,922, 2-8-72, Cl. 4-237.

Samuelson, Bruce E.; and Dunst, Robert A., to Whirlpool Corporation. Inlet valve and switch for central vacuum cleaner. 3,655,927, 4-11-72, Cl. 200-61.6.

Samuelson, David W., to Samuelson Film Service Limited. Mounting brackets for cameras and other optical instruments. 3,638,889, 2-1-72, Cl. 248-206.

Samuelson, Donald G., to Textron Inc. Integral disk brake apparatus for snowmobiles. 3,684,045, 8-15-72, Cl. 180-5.00r.

Samuelson Film Service Limited: *See—*
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Samuelson, Hans Olof: *See—*
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Noreus, Sture Erik Olof; and Samuelson, Hans Olof, 3,652,386.

Samuelson, Hans Olof; and Noreus, Goteborg Sture Erik Olof, to Mo och Domsjo Aktiebolag. Process for treating cellulosic materials with alkali and oxygen in the presence of complex magnesium salts. 3,701,712, 10-31-72, Cl. 162-65.000.

Samuelson, Leon C., to Johnson, S. C., & Son, Inc. Pressurized package. 3,647,119, 3-7-72, Cl. 222-402.18.

Samuelsson, Bengt. 15, 19-Dihydroxy-9-keto-prostanoic acid. 3,657,316, 4-18-72, Cl. 260-468.

Samuelsson, Lars-Gunnar: *See—*
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Samuilov, Ivan Nikolaevich: *See—*
Ivanovichetrov, Vasily; Svetlichny, Boris Nikolaevich; Demidov, Jury Alexeevich; Elin, Nikolai Mikhailovich; Cherepanov, Vladimir Petrovich; Samuilov, Ivan Nikolaevich; and Cheprasov, Ivan Matveevich, 3,684,264.

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Samways, Norman L.: *See—*
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San Antonio, Victorino T. Netmaking slide rule. 3,699,314, 10-17-72, Cl. 235-78.000.

San Emetherio, Juan J., to Lee, Raymond, Organization, Inc., The. Missile throwing apparatus having connectors holding targets in a given spaced relationship. 3,700,240, 10-24-72, Cl. 273-95.00r.

San/Bar Electronics Corporation: *See—*
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Sana Products, Inc.: *See—*
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Sanada, Hisao: *See—*
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Sanborn, Frederic R. G.: *See—*
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Sanchez, Albert A., to Litton Systems, Inc. Crane safety system. 3,638,211, 1-25-72, Cl. 340-267.

Sanchez, Anastacio V. Clamp. 3,669,439, 6-13-72, Cl. 269-130.000.

Sanchez, Anastacio V. Method of and apparatus for repairing deformed yieldable structures. 3,673,842, 7-4-72, Cl. 72-293.000.

Sanchez, Avelino Martinez: *See—*
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Sanchez, Edward J.: *See—*
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Sanchez, Francois; and Jutras, Matial, to Chemcell Limited. Tool for removing ring travellers. 3,686,736, 8-29-72, Cl. 29-207.000.

Sanchez Giraldez, Jose Humberto. Two-part lock button. 3,638,285, 2-1-72, Cl. 24-108.

Sanchez, Jose: *See—*
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Sanchez, Jose, to Pennwalt Corporation. Liquid acyl sulfonyl peroxide-solvent compositions. 3,650,972, 3-21-72, Cl. 252-186.

Sanchez, Jose Humberto Giraldez. Device for retaining a person on a support. 3,680,554, 8-1-72, Cl. 128-134.000.

Sanchez, Manuel Rodriguez; and Baste, Jose Puigdomenech. Closure construction for plastic bags. 3,707,271, 12-26-72, Cl. 248-101.000.

Sanchez, Moises G.: *See—*
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Sanchez, Robert A.: *See—*
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Sanctuary, Clifford, to Del Mar Engineering Laboratories. Remote scoring system for bombing or rocket range. 3,707,699, 12-26-72, Cl. 340-16.00m.

Sand, Jakob: *See—*
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Sand, Karl: *See—*
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Sand, Robert T. Safety razor. 3,660,894, 5-9-72, Cl. 30-74.

Sandbach, Peter, to Moore Business Forms Inc. Containers for transfer material webs. 3,687,386, 8-29-72, Cl. 242-55.000.

Sandbank, Carl Peter, to ITT Industries, Inc. Solid state scanning by detecting the relief profile of a semiconductor body. 3,656,837, 4-18-72, Cl. 350-161.

Sandberg, Bernard L.: *See—*
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Sandberg, Rolf Henry: *See—*
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Sandelman, Morris D., to Pale Corporation. Buckle. 3,685,106, 8-22-72, Cl. 24-265.0ws.

Sandenburgh, George R., to Contromatics Corporation. Ball valve and pipe flange assembly. 3,643,916, 2-22-72, Cl. 251-151.

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Sander, Bruno; and Sperber, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Nonaqueous liquid pesticidal compositions. 3,639,630, 2-1-72, Cl. 424-325.
Sander, Bruno; Schmidt, Franz; and Sperber, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Stabilizing polyacetals. 3,641,196, 2-8-72, Cl. 260-849.
Sander, Bruno; and Sperber, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Non-aqueous liquid formulations with biologically active ingredients. 3,644,646, 2-22-72, Cl. 424-325.
Sander, Bruno; Sperber, Heinrich; Pommer, Ernst-Heinrich; Clad, Werner Helmut; and Wittmann, Otto, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Binders containing 1,3,5-trioxane for the production of processed wood materials. 3,651,006, 3-21-72, C. 260-3.2.
Sander, Hans Walter: *See—*
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Sander, Klaus: *See—*
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Sander, Otto; and Ulpe, Alexander, to Mannesmann Aktiengesellschaft. Offshore terminal. 3,668,875, 6-13-72, Cl. 61-46.000.
Sander, Paul F. Theft deterrent for office machines and small factory tools. 3,643,250, 2-15-72, Cl. 340-280.
Sander, Wendell B.; and Greene, Frank S., Jr., to Fairchild Camera and Instrument Corporation. Use of faulty storage circuits by position coding. 3,654,610, 4-4-72, Cl. 340-172.5.
Sandera, Jiri, to Continental Device Corporation. Glass coated semiconductor. 3,632,432, 1-4-72, Cl. 117-201.
Sandera, Jiri, to TRW Inc. Microalloy epitaxial varactor. 3,685,141, 8-22-72, Cl. 29-576.000.
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Babikyan, Jirair A., 3,656,040.
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Sanders, Dickerson H. Method and apparatus for gathering and confining live poultry. 3,672,335, 6-27-72, Cl. 119-82.000.
Sanders, Duane V., to Systematic Multi-Level Parking Company. Apparatus for transferring a vehicle to and from an elevator. 3,679,083, 7-25-72, Cl. 214-730.000.
Sanders, Frederick M. Decorative sheeting and garland. 3,637,452, 1-25-72, Cl. 161-15.
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Sanders, Graham Hodge, to Oceanography Mariculture Industries, Inc. Larvae rearing tank and circulation system for fish culture. 3,661,119, 5-9-72, Cl. 119-3.
Sanders, Graham Hodge, to Oceanography Mariculture Industries, Inc. Filtration and circulation system for maintaining water quality in mariculture tank. 3,661,262, 5-9-72, Cl. 210-169.
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Sanders, James Richard. Apparatus for generating high temperature steam. 3,636,929, 1-25-72, Cl. 122-460.
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Sanders, James W., to Brunswick Corporation. Golf game computer including improved drag circuit. 3,633,007, 1-4-72, Cl. 235-151.
Sanders, James W., to Brunswick Corporation. Golf game computer including bounce and roll generator. 3,633,008, 1-4-72, Cl. 235-151.
Sanders, James W., to Brunswick Corporation. Golf game computer including means for approximating the effects of backspin on range. 3,671,724, 6-20-72, Cl. 235-151.000.
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Porter, Andrew W.; and Sanders, John L., 3,670,790.
Sanders, John Stewart; Savage, Donald Stanley; and Summerlin, Frederick Arthur, to Aerpat A.G., mesne. Lockbolt placing apparatus. 3,646,757, 3-7-72, Cl. 60-54.5.
Sanders, Kenneth Douglas; Botley, Geoffrey Sword; and Taylor, Jack William, to Credit Keys Limited. Lock controlled electric switch mechanisms. 3,705,507, 12-12-72, Cl. 70-364.00r.
Sanders, Lon L., to International Telephone and Telegraph Corporation. Aircraft electronic landing responser system using scanning pencil beam ground antenna. 3,648,285, 3-7-72, Cl. 343-6.5.
Sanders, Lon L., to International Telephone and Telegraph Corporation. Aircraft electronic landing responser system using airborne chirp interrogation. 3,680,089, 7-25-72, Cl. 343-6.50r.
Sanders, Lon L., to International Telephone and Telegraph Corporation. Instrument landing system using a retrodirective Sletten antenna responser. 3,699,571, 10-17-72, Cl. 343-6.50r.
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Sanders, Ray W.; Keyes, Neil T.; and Quan, William, to Computer Transmission Corporation. Multiplexer. 3,665,405, 5-23-72, Cl. 340-172.5.
Sanders, Ray W.; Luce, David W.; and Quan, William, to Computer Transmission Corporation. Optical data transmission system. 3,705,986, 12-12-72, Cl. 250-199.000.
Sanders, Robert C., to Oxy-Dry Sprayer Corporation. Apparatus for powder removal. 3,680,528, 8-1-72, Cl. 118-50.000.
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Sanders, Robert N.; and Johnston, James D., to Ethyl Corporation. Minerals separation process. 3,669,266, 6-13-72, Cl. 209-166.000.
Sanders, Terry D.: *See—*
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Sanders, Vernard W.: *See—*
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Sanders, Walter J., to Westinghouse Air Brake Company. Low oil pressure control system for compressors. 3,682,574, 8-8-72, Cl. 417-12.000.
Sanders, Wes E. Automatic locking movable bulkhead. 3,641,941, 2-15-72, Cl. 105-376.
Sanders, Wes E.; and Allen, John W., to Stanray Corporation. Hinge construction. 3,685,093, 8-22-72, Cl. 16-147.000.
Sanderson, Charles L.; and Sauer, Earl S., to Continental Oil Company. Process for the purification of alkylate. 3,671,601, 6-20-72, Cl. 260-671.00b.
Sanderson, Dewey S. C. Cabinet for storing microscopic slides. 3,674,358, 7-4-72, Cl. 312-126.000.
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Sanderson, John L.; and Swift, Edward W., to Shell Oil Company. Process for the oxidation of aryl alkyl sulfoxides to aryl alkyl sulfones. 3,699,171, 10-17-72, Cl. 260-607.00a.
Sanderson, Leon Franklin: *See—*
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Sanderson, Robert A., to United Aircraft Corporation. Fuel cell system having a natural circulation boiler. 3,698,957, 10-17-72, Cl. 136-86.00c.
Sanderson, Thomas F., to Hercules Incorporated. Tall oil rosin of low sulfur content. 3,655,635, 4-11-72, Cl. 260-977.
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Sandler, Stanley R., to Borden Company, The. Polyvinyl acetate adhesives containing inorganic zirconium salts. 3,677,883, 7-18-72, Cl. 161-251.000.
Sandler, Stanley Robert, to Borden, Inc. Preparation of N-vinyl carbazole. 3,679,700, 7-25-72, Cl. 260-315.000.
Sandler, Yehuda L., to Westinghouse Electric Corporation. Hydrophobic layers for gas diffusion electrodes. 3,671,323, 6-20-72, Cl. 136-86.00d.
Sandler, Yehuda L., to Westinghouse Electric Corporation. Stabilization of silver catalyst in an air diffusion electrode. 3,682,707, 8-8-72, Cl. 136-86.00e.
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Sando, Yoshikazu; and Takasu, Masao, to Sando Iron Works Company Limited. High pressure steamer. 3,651,671, 3-28-72, Cl. 68-5.
Sando, Yoshikazu; Tsuchihashi, Takashi; and Ishidoshiro, Hiroshi, to Santo Iron Works Co., Ltd. Process for a liquid treatment of cloth. 3,655,328, 4-11-72, Cl. 8-149.1.
Sando, Yoshikazu; and Ishidoshiro, Hiroshi. Washing of a contaminated guide-roll and prevention therefrom in cloth treatments. 3,665,531, 5-30-72, Cl. 8-151.
Sando, Yoshikazu; and Takasu, Masao, to Sando Iron Works Company, Limited. Pressure sealing apparatus. 3,686,900, 8-29-72, Cl. 68-5.00e.
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Sandor, Mirlos; Nyitray, Istvan; and Nemeth, Jozsef, to Borsodnadasdi Lemezgyar. Method of improving refractory mouldings, particularly refractory bricks. 3,689,615, 9-5-72, Cl. 264-474.000.
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Sandquist, Alvin V.; and Becker, Floyd Walter, to Becker Drilling (Alberta) Ltd. Joint for double-walled drill pipe. 3,638,970, 2-1-72, Cl. 285-24.

Sandquist, Alvin V., to Becker Drills Limited. Apparatus for recovering a drill stem. 3,638,989, 2-1-72, Cl. 294-86.24.

Sandri, Joseph M.: *See—*
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Sands, Asa D. Safety valve. 3,683,957, 8-15-72, Cl. 137-460.000.

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Sandstrom, James P., to Bissett-Berman Corporation, The. Electrolytic cell etching. 3,653,998, 4-4-72, Cl. 156-6.

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Sandusky, Bernard J., to Ford Motor Company. Rocker arm assembly including fulcrum mounted lubricant deflector. 3,667,434, 6-6-72, Cl. 123-90.350.

Sandusky, Charles F.; and Susor, William C., to Reliance Electric and Engineering Company, The. Batch weighing with non-cumulative digital cutoff. 3,662,846, 5-16-72, Cl. 177-70.

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Sanford, Douglas C., to Honeywell Inc. Single conductor arrangement for powering and triggering flash lamps. 3,648,105, 3-7-72, Cl. 315-237.
Sanford, Emil Ed., to Monsanto Company. Reflex type electron multiplier. 3,693,004, 9-19-72, Cl. 313-103.000.
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Sanford, Lloyd Clifford, to Itek Corporation. Sensitometer light source apparatus. 3,677,150, 7-18-72, Cl. 95-10.00r.
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Sanford, Robert A., to Meditech Energy and Environmental Corporation. Chromatic temperature indicator. 3,633,425, 1-11-72, Cl. 73-356.
Sanford, Robert A.; Johnson, Robert Reiner; and Summers, Thomas Wade, to Brown and Williamson Tobacco Corporation. Cigarette with modified paper wrapper. 3,667,479, 6-6-72, Cl. 131-15.000.
Sanford, Robert A.; Mooi, John; and Rogers, Edward S., to Sinclair Research, Inc. Extruded alumina catalyst support and the preparation thereof. 3,679,605, 7-25-72, Cl. 252-463.000.
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Sangster, Frederik L. J., to U.S. Philips Corporation. Delay device. 3,666,972, 5-30-72, Cl. 307-293.
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Santarelli, Sandro. Raceway for beds of hospitals and the like. 3,692,920, 9-19-72, Cl. 174-48.000.
Santarelli, Vincent. Combination cap and pump for sprayer apparatus. 3,690,516, 9-12-72, Cl. 222-340.000.
Santeford, Henry S., Jr.; Meier, John G.; and Alger, George R., to Michigan Technological University, Board of Control of. Snow moisture integrator. 3,690,169, 9-12-72, Cl. 73-171.000.
Santerre, Fernand; and Libaud, Francis, to La Telemecanique Electrique. Thread-sensing device for a textile machine. 3,676,990, 7-18-72, Cl. 57-81.000.
Santho, Albert T. Cargo securing apparatus and methods. 3,704,672, 12-5-72, Cl. 105-369.00a.
Santi, Romano, to Montecatini Edison S.p.A. Detoxification of dithiophosphic esters. 3,689,605, 9-5-72, Cl. 260-990.000.
Santiago, Andres; and Santiago, Enrique, to Zeuna-Staerker KG. Apparatus for the detoxification of exhaust gases of internal combustion engines. 3,703,082, 11-21-72, Cl. 60-282.000.
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Santilli, Arthur A.; and Kim, Dong H., to American Home Products Corporation. 5,6,7,8-Tetrahydro-5-oxo-pyrido[2,3-d] pyrimidine-6-carbonitirles and related compounds. 3,641,027, 2-8-72, Cl. 260-256.4.
Santilli, Arthur A.; and Kim, Dong H., to American Home Products Corporation. 2-Alkyl-7-substituted-4H-pyrimido[5',4',:4,5] thieno[3,2-d][1,3]oxazin-4-ones. 3,644,351, 2-22-72, Cl. 260-244.
Santilli, Arthur A.; and Kim, Havertown Dong H., to American Home Products Corporation. 5-Hydroxy-3-alkyl-1-(thiocarbamoyl or alkylthiocarbamoyl)-pyrazole-4-alkanoic acid derivatives. 3,704,242, 11-28-72, Cl. 260-310.00r.
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Santimauro, John F.; and Gerson, Herman, to Allied Chemical Corporation. Process for the preparation of N,N'-di-1-anthraquinonylphthalamide. 3,668,225, 6-6-72, Cl. 260-368.000.
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Santosuosso, Robert C. Fishing lure. 3,683,543, 8-15-72, Cl. 43-42.090.

Santouris, Ioannis A. Apparatus for forming and stacking container lids. 3,650,655, 3-21-72, Cl. 425-289.

Santovi, George A. Safety reflector device for vehicles. 3,658,408, 4-25-72, Cl. 350-97.

Santry, George J., to Corning Glass Works. Structural grid for slab facing materials. 3,651,611, 3-28-72, Cl. 52-379.

Santry, George J.; and Wecenske, Harold R., to Corning Glass Works. Gripping and sealing system for slab facing materials. 3,672,107, 6-27-72, Cl. 52-235.000.

Santucci, Kenneth E. Support structure. 3,637,177, 1-25-72, Cl. 248-74.

Santucci, Vincent J. Apparatus for treating foodstuff. 3,658,072, 4-25-72, Cl. 134-65.

Santurri, Pasco R.; and Rother, John H. Laminable film having an integral glutinous ground coating. 3,690,920, 9-12-72, Cl. 117-45.000.

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Sanz, Manuel Claude; and Weber, Rene, to Micromedic Systems, Inc. Distributor pump. 3,684,409, 8-15-72, Cl. 417-519.000.

Sanz, Manuel Claude, to Micromedic Systems, Inc. Coagulometer capsule. 3,692,487, 9-19-72, Cl. 23-253.00r.

Sanz, Manuel Claude, to Micromedic Systems, Inc. Coagulometer. 3,704,099, 11-28-72, Cl. 23-253.00r.

Sanz, Manuel Claude; and Weber, Rene, to Micromedic Systems, Inc. Eccentric mechanism for converting a rotary movement into a reciprocating rectilinear movement of variable amplitude. 3,706,233, 12-19-72, Cl. 74-25.000.

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Sapers, Ira, to Arkansas Company, Inc. Cycloalkanone or alkyl aryl ketone assisting cationic dye and aromatic polyamide dyeing therewith. 3,674,420, 7-4-72, Cl. 8-173.000.

Sapino, Chester, Jr.; and Sleezer, Paul David, to Bristol-Myers Company. Process for the preparation of (4-pyridylthio) acetic acid. 3,644,377, 2-22-72, Cl. 260-294.8.

Sapir, Said, to International Telephone and Telegraph Corporation. Spark generator and components therefor. 3,662,185, 5-9-72, Cl. 307-106.

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Sapkus, Jurgis; and Bafza, Armando M., to Mattel, Inc. Extensible quick configuration-changing toy. 3,688,435, 9-5-72, Cl. 46-119.000.

Sapkus, Jurgis, to Mattel, Inc. Doll with blunking eyelids moved by a pendulum. 3,699,707, 10-24-72, Cl. 46-166.000.

Sapkus, Jurgis; Lewis, J. Stephen; and Sporrong, Robert N., to Mattel, Inc. Appendage animating means for figure toys. 3,699,713, 10-24-72, Cl. 46-119.000.

Sapolin Paints, Inc.: *See—*
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Sapy, Jacques; and Legris, Andre, to Legris, Ste. Releasable coupling for fluid carrying tubes. 3,653,689, 4-4-72, Cl. 285-113.

Saraber, Petrus Gerardus, to Gizeh-Werk G.m.b.H. Cigarette-making appliance. 3,699,975, 10-24-72, Cl. 131-70.000.

Saraceno, Anthony J.; Walters, Reed H.; Jones, Donald B.; and Wiehle, William E., to United States of America, Atomic Energy Commission. Process for selective removal and recovery of chromates from water. 3,664,950, 5-23-72, Cl. 210-35.000.

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Sarafidis, Christos, to Du Pont de Nemours, E. I., and Company. Cobalt salt-phosphine-organoaluminum catalysts for preparing 1,4-dienes. 3,647,901, 3-7-72, Cl. 260-680.

Sarah, Thomas F., to Shakespeare of Arkansas, Inc. Selectively manual or automatic shift control for a two speed drive in a fishing reel. 3,675,502, 7-11-72, Cl. 74-369.000.

Sarai, Hiroshi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Vented fuel tank. 3,643,690, 2-22-72, Cl. 137-587.

Saralidze, Anton Lavrentievich; and Efremidi, Anatoly Lazarevich. High-voltage semiconductor rectifier unit. 3,676,762, 7-11-72, Cl. 321-8.00r.

Sarallo, John F.; and Shetzley, George W., to Motorola, Inc. Automatic encoder-decoder circuit for radio communications unit. 3,651,407, 3-21-72, Cl. 325-18.

Saran, Herbert; and Budnowski, Manfred, to Henkel & Cie G.m.b.H. Molding materials based on epoxide compounds. 3,655,624, 4-11-72, Cl. 260-77.5.

Saran, Herbert; and Budnowski, Manfred, to Henkel & Cie G.m.b.H. Molding materials based on epoxide compounds and process. 3,704,281, 11-28-72, Cl. 260-77.5nc.

Sarati, Luigi; and Battiston, Gianfranco, to Societa Italiana Telecomunicazioni Siemens S.p.A. Control system for line concentrator of communication network. 3,657,470, 4-18-72, Cl. 178-3.

Sarati, Luigi, to Societa Italiana Telecomunicazioni Siemens S.p.A. Radio telecommunication system with automatic replacement of defective channels. 3,681,694, 8-1-72, Cl. 325-2.000.

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Pierini, John M.; Sarazen, John C.; and Larsen, Reidar G., 3,689,865.

Sarbach, Ronald A.; and Porter, Richard E., to Abex Corporation. Railway car retarder control with timed brake application. 3,633,026, 1-4-72, Cl. 246-182.

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Wagner, Arthur F.; Wittreich, Paul E.; and Sarett, Lewis H., 3,666,755.
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Sarett, Lewis H.; Hoff, Dale R.; and Henry, David W. 2-Aryl-5(or 4-) nitroimidazoles. 3,682,949, 8-8-72, Cl. 260-309.000.
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Sarfaty, Gordon A.; and Tregear, Geoffrey W., to Cancer Institute Board. Graft copolymers. 3,639,516, 2-1-72, Cl. 260-818.
Sarff, Forest M.; and Birch, Silas B., Jr. Power-driven wire tying mechanism. 3,677,308, 7-18-72, Cl. 140-93.600.
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Sargeant, Archibald, to Wingard Limited. Inertia reels for safety belts. 3,664,600, 5-23-72, Cl. 242-107.4.
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Allen, Irving, 3,704,620.
Arnold, Douglas; and Faulconer, Harry A. (said Arnold assor to), 3,641,652.
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Sargent, Donald E., to Radiation Research Corporation. Polymerization of 2-pyrrolidone in the presence of carbonyl sulfide. 3,647,764, 3-7-72, Cl. 260-78.
Sargent, Ellsworth B.: *See—*
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Sargent, Jerald P., to Minnesota Mining and Manufacturing Company. Electrostatically-charged fluidized bed apparatus. 3,670,699, 6-20-72, Cl. 118-629.000.
Sargent, Michael R.: *See—*
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Sargent, Ray. Anti-pollution apparatus. 3,706,182, 12-19-72, Cl. 55-124.000.
Sargent, Raymond W., to Simmonds Precision Products, Inc. Flat scale rectilinear indicator. 3,634,764, 1-11-72, Cl. 324-132.
Sargent, Thomas J. Molded granite. 3,703,433, 11-21-72, Cl. 161-162.000.
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Shapiro, Ascher H., 3,644,051.
Trcka, Ronald; and Sherrick, Paul H., 3,672,838.
Sarges, Reinhard. Aminobenzocycloalkae compounds. 3,637,740, 1-25-72, Cl. 260-326.
Sargrove, John Adolph, to Imperial Tobacco Company (of Great Britain and Ireland) Limited, The. Apparatus for making cigar bunches. 3,703,902, 11-28-72, Cl. 131-22.00a.
Sarka, Albert J., to Harris-Intertype Corporation. Chemical honing of dies. 3,690,199, 9-12-72, Cl. 76-107.00c.
Sarkes Tarzian, Inc.: *See—*
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Krepps, James Edgar, Jr.; Chamberlain, Meredith K.; and Fisher, Robert D., 3,679,979.
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Weigel, Morton L., 3,650,413.
Sarkisian, Robert. Poster display device. 3,646,696, 3-7-72, Cl. 40-125.
Sarkisian, Robert. Poster display device. 3,662,482, 5-16-72, Cl. 40-125.
Sarkisov, Rafael Tevosovich: *See—*
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Sarkissian, Vahe, to National Semiconductor Corporation. Multiplexing circuit with stage isolation means. 3,638,131, 1-25-72, Cl. 330-30.
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Sarnik, Stanislaw; and Olofsson, Mans Olof, to AB Kockum Landsverk Landskrona. Brake arrangement for reversible hydraulic engines. 3,690,099, 9-12-72, Cl. 60-53.00r.
Sarno, Richard L., to Leisure Products, Inc. Boat hoists. 3,697,048, 10-10-72, Cl. 254-148.000.
Sarnoff, Stanley J., to Survival Technology, Inc. Pneumatically actuated pressure dressing. 3,633,567, 1-11-72, Cl. 128-2.05.
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Saro, Karl; and Trosdorff, Willi, to Jagenberg-Werke AG. Apparatus for aligning longitudinal glue seam of a tubular cardboard box blank. 3,662,655, 5-16-72, Cl. 93-36.
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Sarofeen, George M. J., to Coburn Manufacturing Co. Lens block. 3,704,558, 12-5-72, Cl. 51-216.01p.
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Sarrail, John L., to Evans Products Company. Method of manufacturing hollow core panels with embossed shaped frames. 3,636,998, 1-25-72, Cl. 144-328.
Sarring, Ernest J., to Crawley Machinery Co. Book transferring apparatus. 3,640,372, 2-8-72, Cl. 198-24.
Sarris, Samuel E. Push-pull container and cap assembly. 3,690,520, 9-12-72, Cl. 222-499.000.
Sarsten, Jan A.; Zacks, Kenneth I.; and Myers, Michael C., to Esso Research and Engineering Company. Refrigeration inventory control. 3,668,882, 6-13-72, Cl. 62-77.000.
Sarten, Paula; and Mair, Winfried, to Messerschmitt-Bolkow Gesellschaft mit beschrankter Haftung. Hypergolic solid fuels of high storage stability for hybrid rocket engines and process for making the same. 3,663,322, 5-16-72, Cl. 149-19.
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Sarto, Jorma O., to Chrysler Corporation. Cool exhaust recycling. 3,662,722, 5-16-72, Cl. 123-119.00a.
Sarto, Jorma O., to Chrysler Corporation. Crankcase ventilation. 3,677,240, 7-18-72, Cl. 123-119.00b.
Sarto, Jorma O.; and Dawson, Gary D., to Chrysler Corporation. Notched door valve for control carburetor air and crankcase vapors. 3,704,698, 12-5-72, Cl. 123-119.00b.
Sartorio, Franco, to D.E.A. Digital Electronic Automation Societa per Azioni. Improvements relating to machines and apparatus having a support for guiding a movable member. 3,639,993, 2-8-72, Cl. 33-174.
Sartorius-Werke (und vormals Gottinger Prazisionswaagenfabrik GmbH): *See*—
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Sasabe, Kaoru; and Okino, Yoshihiro, to Matsushita Electric Industrial Co., Ltd. Multiple optical system for color facsimile system. 3,657,471, 4-18-72, Cl. 178-5.4.
Sasabe, Kaoru, to Matsushita Electric Industrial Co., Ltd. Signal conversion system with time base compression of the input data. 3,676,862, 7-11-72, Cl. 340-172.500.
Sasabe, Kaoru; and Oda, Fujio, to Matsushita Electric Industrial Co., Ltd. Motor speed controlling apparatus. 3,699,418, 10-17-72, Cl. 318-325.000.
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Sasaki, Hiroshi; Maruyama, Tatsuo; Kanzaki, Hisao; Sakamoto, Yasuhiko; and Yasoshima, Nobuyuki, 1/2 to Kokusai Denshin Denwa Co., Ltd. and Fujitsu Limited. Time division multiplexing communication system. 3,643,031, 2-15-72, Cl. 179-15.
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Sasaki, Kenkichi; and Saikawa, Hisashi, to Yamauchi Rubber Industry Co., Ltd. Cover for protecting coatings of automobiles and the like. 3,665,355, 5-23-72, Cl. 335-306.
Sasaki, Kiyoshi; and Watanabe, Satoshi, to Okaya Denki Sangyo Kabushikikaisha. Method of sealing display cathodes in a glass envelope. 3,632,324, 1-4-72, Cl. 65-43.
Sasaki, Kiyoshi; and Watanabe, Satoshi, to Okaya Denki Sangyo Kabushikikaisha. Display device having cathodes and lead wires disposed in grooved base plate for positive insulation therebetween. 3,660,710, 5-2-72, Cl. 313-109.5.
Sasaki, Koji, to Nittan Company Limited. Fire alarming system. 3,702,468, 11-7-72, Cl. 340-237.00s.
Sasaki, Koju; and Kobayashi, Akihiro, to Nittan Company, Limited. Device for testing ionization smoke detector. 3,657,713, 4-18-72, Cl. 340-214.
Sasaki, Koju; and Kobayashi, Akihiro, to Nittan Company Limited. Ionization type smoke detectors with FET protected against open circuit input. 3,662,177, 5-9-72, Cl. 250-44.
Sasaki, Koju; Takahashi, Naoki; and Kobayashi, Akihiro, to Nittan Company, Limited. Ionization smoke detector and leakage sensing means therefor. 3,666,954, 5-30-72, Cl. 250-83.6.
Sasaki, Koju, to Nittan Company, Limited. Alarm device with means to locate an erroneously activated detector. 3,668,676, 6-6-72, Cl. 340-227.00r.
Sasaki, Kuju, to Nittan Company Limited. Ionization smoke detecting device. 3,693,009, 9-19-72, Cl. 250-43.50d.
Sasaki, Marekichi: *See*—
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Sasaki, Nobuyuki; Oba, Shunzo; and Yano, Tadashi, to Matsushita Electric Industrial Co., Ltd. Sliding type variable resistor. 3,671,915, 6-20-72, Cl. 338-183.000.
Sasaki, Osamu; and Yamakawa, Kiyoshi, to Sekisui Adoheya Kogya Kabushiki Kaisha. Tape cutter. 3,635,473, 1-18-72, Cl. 270-86.
Sasaki, Reiichi; and Nagaoka, Yoshitomi, to Matsushita Electric Industrial Co., Ltd. Cross-color eliminating apparatus for a television receiver. 3,634,615, 1-11-72, Cl. 178-5.4.
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Sasaki, Ryoichi; and Asano, Choichi, to Hitachi, Ltd. Turbine blade material of high tensile strength, high damping capacity and high ductility. 3,682,717, 8-8-72, Cl. 148-37.000.
Sasaki, Seiya: *See*—
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Sasaki, Shigeki: *See*—
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Sasaki, Shiro; and Shibata, Narajiro, to Toyo Rubber Industry Co., Ltd., The. Pneumatic tire with polyester casing, nylon breaker and stereo regular polybutadiene. 3,674,078, 7-4-72, Cl. 152-330.000.
Sasaki, Shunroku: *See*—
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Sasaki, Shunroku; and Takebayashi, Shizuo, to Fujitsu Limited. PCM transmission system utilizing two linear decoders. 3,644,673, 2-22-72, Cl. 178-88.
Sasaki, Tadajiro, to Kabushiki Kaisha Sasakiseisakusho. Process and apparatus for automatic cutting and piling of knitted fabrics. 3,672,249, 6-27-72, Cl. 83-80.000.
Sasaki, Takaaki: *See*—
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Sasaki, Toshiharu; Miyano, Ryuzo; and Onishi, Masaru, to Matsushita Electric Industrial Co., Ltd. Electrophotographic processor camera. 3,697,173, 10-10-72, Cl. 355-27.000.
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Sasame, Takao: *See*—
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Sassano, John H., to Weather Control Shutters, Inc. Shutter operating mechanism. 3,667,161, 6-6-72, Cl. 49-56.000.
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Sato, Isao. Power transmission socket for bobbins. 3,685,753, 8-22-72, Cl. 242-46.210.

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Sato, Katsuhiko: *See*—
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Sato, Kazuo; and Aoki, Takashi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Method and apparatus for measuring the distance of travel and the speed of a moving object. 3,701,151, 10-24-72, Cl. 343-9.000.

Sato, Kenichiro: *See*—
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Sato, Kenji: *See*—
Ueda, Tadao; Sato, Kenji; and Nakamura, Yasusi, 3,674,426.

Sato, Kiichi; and Ogura, Isamu, said Ogura assor. to Oki Electric Industry Company Limited. Memory device and method of making the same. 3,699,648, 10-24-72, Cl. 29-604.000.

Sato, Kogo; Kato, Hiroshi; and Ohnishi, Shinji, to Hitachi, Ltd. Method of forming the electrode of a semiconductor device. 3,672,984, 6-27-72, Cl. 117-212.000.

Sato, Koichi; Tamugi, Norifusa; and Abe, Katsutoshi, to Fujisawa Pharmaceutical Co., Ltd. Synthetic resin molding compositions containing N-alkylgluconamides. 3,637,568, 1-25-72, Cl. 260-32.6.

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Sato, Kunio; Sugihara, Kanji; Wakabayashi, Takashi; and Ishida, Tomio, to Matsushita Electric Industrial Co., Ltd. Method for making molded carbon composition resistors. 3,676,925, 7-18-72, Cl. 29-613.000.

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Sato, Masaaki; and Saitou, Shiniche, to Olympus Optical Co., Ltd. Method for eliminating noise of an electric appliance and device therefor. 3,668,571, 6-6-72, Cl. 333-79.

Sato, Masaaki, to Olympus Optical Co., Ltd. Device for automatically preventing the erasing of a tape in a tape cassette. 3,702,907, 11-14-72, Cl. 179-100.20z.

Sato, Masaki: *See*—
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Sato, Masamichi; and Fukushima, Osamu, to Xerox Corporation. Liquid developing process in an electrostatographic imaging system. 3,642,471, 2-15-72, Cl. 96-1.8.

Sato, Masamichi; Tamai, Yasuo; Matsumoto, Seiji; and Honjo, Satoru, to Xerox Corporation. Liquid development utilizing a curvilinear development electrode. 3,642,515, 2-15-72, Cl. 117-37.

Sato, Masamichi; and Takahashi, Isoji, to Xerox Corporation. Uniform charging method and apparatus using an array of needle electrodes. 3,649,830, 3-14-72, Cl. 250-49.5.

Sato, Masamichi; and Takahashi, Isoji, to Fuji Photo Film Co., Ltd. Apparatus for developing a latent electrostatic image. 3,672,330, 6-27-72, Cl. 118-637.000.

Sato, Masamichi. Electrodeposition. 3,674,543, 7-4-72, Cl. 117-93.000.

Sato, Masamichi; Matsumoto, Seiji; and Honjo, Satoru. Dye transfer color electrophotography. 3,681,065, 8-1-72, Cl. 96-1.200.

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Fuji Photo Film Co., Ltd. Electrophotographic process. 3,685,907, 8-22-72, Cl. 355-17.000.

Sato, Masamichi; and Matsumoto, Sieji, to Xerox Corporation. Color electrophotographic process. 3,687,661, 8-29-72, Cl. 96-1.200.

Sato, Masamichi; and Takahashi, Isoji, to Xerox Corporation. Method and apparatus for uniformly charging the surface of an insulating member. 3,689,767, 9-5-72, Cl. 250-49.5zc.

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Sato, Masayuki, to Nihon Denshi Kabushiki Kaisha. Electron beam scanning apparatus. 3,634,684, 1-11-72, Cl. 250-49.5.

Sato, Mikio: *See—*
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Sato, Mikio; Hohrai, Yoshiki; and Fuziyoshi, Kozi, to Nihon Senshoku Kikai Kabushiki Kaisha. Liquor circulating device in a high temperature and high pressure dyeing machine. 3,635,056, 1-18-72, Cl. 68-189.

Sato, Mitumasa. Motor-driven actuator and safety overload mechanism therefor. 3,682,283, 8-8-72, Cl. 192-141.000.

Sato, Motoharu: *See—*
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Sato, Noboru; and Nakano, Tatsumi, to Akai Electric Company Limited. Head block assembly of a magnetic video tape recorder. 3,636,275, 1-18-72, Cl. 179-100.2.

Sato, Nobuyasu; Nakamura, Toshio; and Takenaka, Hiroshi, to Sumitomo Chemical Company, Ltd. Salts of indole derivatives and a process for preparing the same. 3,669,987, 6-13-72, Cl. 260-326.13a.

Sato, Osahiro: *See—*
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Sato, Reiji, to Amano Corporation. Program device for producing time signals and the like. 3,675,415, 7-11-72, Cl. 58-150.000.

Sato, Ryuichi: *See—*
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Sato, Ryuichi; Harimaya, Seizi; Agata, Akihiko; Morishima, Kunio; Tsutsui, Toshiaki; and Kano, Yasuhiro, to Nikkiso Co., Ltd. Pump. 3,637,329, 1-25-72, Cl. 417-360.

Sato, Ryuichi, to Nikkiso Co., Ltd. Axial thrust balancing mechanism for motor driven pump. 3,664,758, 5-23-72, Cl. 415-104.000.

Sato, Sanro, to Matsushita Electric Works, Ltd. and Hoshindenki-Seizo Kabushiki-Kaisha. Electrical massage instrument. 3,636,945, 1-25-72, Cl. 128-36.

Sato, Seiji, to Sony Corporation. Magnetic recording and/or reproducing system. 3,643,038, 2-15-72, Cl. 179-100.2.

Sato, Seiko: *See—*
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Sato, Seizi, to Sony Corporation. Magnetic recording and/or reproducing system having guide pins mounted on independently rotating plates for withdrawing tape from cassette. 3,678,213, 7-18-72, Cl. 179-100.20z.

Sato, Shigehiko: *See—*
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Sato, Shigeta: *See—*
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Sato, Shintaro; and Kato, Shigeo, to Hitachi, Ltd. Refrigeration apparatus for developing extremely low temperatures. 3,636,719, 1-25-72, Cl. 62-6.

Sato, Shizuo: *See—*
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Sato, Shosuke; Saito, Shigeru; and Kobayashi, Saburo, to Kabushikikaisha Tokyo Keiki Seizosho (Tokyo Keiki Seizosho Co., Ltd.). Time interval measuring instrument. 3,665,309, 5-23-72, Cl. 324-186.

Sato, Shui: *See—*
Sakazume, Kaiichiro; Ito, Shigemasa; Sato, Shui; Sakamoto, Eiichi; and Oshima, Akio, 3,698,910.
Ushiyama, Rintaro; Sugino, Osakazu; Sato, Shui; Sakamoto, Eiichi; Yamada, Hiroshi; and Kikuchi, Shoji, 3,706,563.

Sato, Shui; Sakamoto, Eiichi; Saito, Shizuo; and Sakazume, Kaiichiro, to Konishiroku Photo Industry Co., Ltd. Light-sensitive supersensitized silver halide photographic emulsions. 3,660,099, 5-2-72, Cl. 96-100.000.

Sato, Shui; Nakajima, Tomio; Shono, Masayuki; and Kagami, Teruo, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide photographic material containing as a stabilizer a hydroimidazo s-triazine. 3,663,209, 5-16-72, Cl. 96-109.000.

Sato, Shui; Sakamoto, Eiichi; Saito, Shizuo; Sakazume, Kaiichiro; and Kaneko, Tokuzo, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide supersensitized photographic material. 3,663,210, 5-16-72, Cl. 96-124.000.

Sato, Shui; Ishihara, Masao; Sakamoto, Eiichi; Shono, Masayuki; and Sugino, Osakazu, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide photographic emulsions. 3,663,230, 5-16-72, Cl. 96-107.000.

Sato, Shui; Nakajima, Tomio; Nakano, Masashi; and Sugita, Sadao, to Konishiroku Photo Industry Co., Ltd. Organic materials containing UV-absorbers. 3,694,211, 9-26-72, Cl. 96-84.000.

Sato, Shui; Sugita, Sadao; Nakajima, Tomio; and Kasai, Keiji, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide color-photographic material. 3,698,907, 10-17-72, Cl. 96-84.00r.

Sato, Shui; Sakazume, Kaiichiro; and Suga, Tsuneo, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide photographic emulsion for microfilm use. 3,702,251, 11-7-72, Cl. 96-124.000.

Sato, Sigeta: *See—*
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Saunders, John Allen, to Research Association of British Paint, Colour & Varnish Manufacturers, The. Paint compositions. 3,696,054, 10-3-72, Cl. 252-511.000.
Saunders, John H. Toothbrush holder. 3,685,660, 8-22-72, Cl. 211-60.00r.
Saunders, Kenneth Worden: *See—*
Wiedeman, Oscar Fontaine; Saunders, Kenneth Worden; and O'Connor, Michael Niall, 3,695,833.
Zonis, Meyer Louis; Shah, Girish Chandulal; Saunders, Kenneth Worden; and O'Connor, Michael Niall Desmond, 3,634,944.
Saunders, Lawrence J., to S & S Corrugated Paper Machinery Co., Inc. Shortened apparatus for producing corrugated board. 3,676,264, 7-11-72, Cl. 156-470.000.
Saunders, Leonard M., to United States Steel Corporation. Apparatus for making ingots. 3,633,656, 1-11-72, Cl. 164-348.
Saunders, Leonard M., to United States Steel Corporation. Method of making sound large generally cylindrical ingots. 3,704,745, 12-5-72, Cl. 164-126.000.
Saunders, Leonard Victor John; and Rochell, David, to Allied Chemical Corporation. Polymer finisher. 3,686,826, 8-29-72, Cl. 55-52.000.
Saunders, Milton A., Jr. Skin patch test device. 3,703,890, 11-28-72, Cl. 128-2.00w.
Saunders, Orson V.: *See—*
Brown, Richard C.; and Saunders, Orson V., 3,667,249.
Saunders, Orson V.; and Benasutti, Louis D., to General Motors Corporation. Refrigerator door trim handles and mounting strip. 3,648,411, 3-14-72, Cl. 49-460.
Saunders, Paul D., to Westinghouse Electric Corporation. Turbine support structure. 3,642,380, 2-15-72, Cl. 415-136.
Saunders, Philip G., to Container Graphics Corporation. Creasing rules for cutting dies. 3,673,929, 7-4-72, Cl. 93-58.20r.
Saunders, Raymond A., to United States of America, Navy. System for gas analysis and molecular gas separator. 3,662,520, 5-16-72, Cl. 55-158.
Saunders, Richard C., to North American Rockwell Corporation. Thermoelectric element. 3,707,429, 12-26-72, Cl. 161-116.000.
Saunders, Roger L., to Eastman Kodak Company. Sealing apparatus for transport of material between regions at different pressures. 3,648,383, 3-14-72, Cl. 34-242.
Saunders, Stuart R.: *See—*
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Saunders, Teddy G., to Vadic Corporation, The. Notch filter network with controllable response. 3,648,187, 3-7-72, Cl. 330-21.
Saunders, Thomas Allen; and Saunders, Charles A. Bow checking and calibrating device. 3,651,578, 3-28-72, Cl. 33-180.
Saunders, Thomas Allen; and Saunders, Eugene F., to Saunders Archery Co. Arm guard for archer. 3,703,728, 11-28-72, Cl. 2-16.000.
Saunders, Walter Selden. Drag reducer for land vehicles. 3,697,120, 10-10-72, Cl. 296-1.00s.
Saunders, William C. Collapsible stand-up tray holder. 3,669,392, 6-13-72, Cl. 248-121.
Saunders, William T., to National Steel Corporation. Tool-free hand-openable container. 3,696,963, 10-10-72, Cl. 220-60.00r.
Saunders, William T., to National Steel Corporation. Manufacture of metal containers with rimmed opening. 3,706,292, 12-19-72, Cl. 113-1.00g.
Saunier Duval: *See—*
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Saupe, Martin; and Farian, Gerhard, to Kaltenbach & Voigt. Collet chuck for a dental instrument. 3,646,677, 3-7-72, Cl. 32-26.
Saupe, Martin, to Kaltenbach & Voigt. Coupling for the connection of a dental handpiece to a power source. 3,665,606, 5-30-72, Cl. 32-26.000.
Saupp, Chauncey P. Anti-skid device for motor vehicles. 3,658,158, 4-25-72, Cl. 188-4.00b.
Saurenman, Donald G.; and Smith, Harold W., to Consan Pacific Incorporated. Poultry growth enhancement method and apparatus. 3,696,791, 10-10-72, Cl. 119-21.000.
Saurer, Adolph, Ltd.: *See—*
Porter, Allan William Henry, 3,662,786.
Porter, Allan William Henry, 3,670,775.
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Sauser, Alfred, to Sauser AG. Small frames for rotary or moving coils of electrical measuring instruments. 3,654,552, 4-4-72, Cl. 324-154.
Sausse, Andre, to Rhone-Poulenc S.A. Dialyzer. 3,631,986, 1-4-72, Cl. 210-321.
Sausse, Andre, to Rhone-Poulenc S.A. Apparatus for taking samples of liquid. 3,696,806, 10-10-72, Cl. 128-2.00f.
Sausville, Joseph W.: *See—*
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Sausville, Joseph W., to Westinghouse Electric Corporation. Precipitation method of preparing alkaline earth metal fluorochloro phosphate phosphor. 3,663,473, 5-16-72, Cl. 252-301.6.
Sautbine, Willis T. Self-righting marker. 3,699,913, 10-24-72, Cl. 116-63.00p.
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Sauter, Josef, to Sulzer Brothers Limited. Process for variable-pressure operation of a forced-flow vapor generator. 3,665,895, 5-30-72, Cl. 122-406.
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Sauter Packaging Company: *See—*
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Sauterel, Gerard, to Matisa Materiel Industriel S.A. Machine for the tamping of ballast of railway tracks. 3,653,327, 4-4-72, Cl. 104-12.
Sauterel, Gerard; and Fornerod, Andre, to Matisa Materiel Industriel S.A. Process for the alignment of railway tracks. 3,664,265, 5-23-72, Cl. 104-8.000.
Sautter, Alton F.: *See—*
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Sauvaget, Gaston. Apparatus for converting hydraulic or pneumatic energy into kinetic energy or vice versa, such as a rotary multi-chamber vane-type motor or pumps. 3,639,092, 2-1-72, Cl. 418-175.
Sauvagnac, Robert: *See—*
Cohen, Michel; Lavigne, Pierre; and Sauvagnac, Robert, 3,678,920.
Sauvan, Jacques Louis, to Societe Anonyme dite: Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, S.N.E.C.M.A. Active memory. 3,651,495, 3-21-72, Cl. 340-173.
Sauvan, Jacques Louis; and Berthelemy, Jacques. Data processing apparatus. 3,688,278, 8-29-72, Cl. 340-172.500.

Savage, Bruce Russell, to Bell Telephone Laboratories, Incorporated. Digital constant-percent-break pulse correcting signal timer. 3,700,821, 10-24-72, Cl. 179-16.00e.
Savage, Deborah F.: *See—*
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Savage, Donald Stanley: *See—*
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Savage, Harry A.: *See—*
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Savage, Jack W., to General Motors Corporation. Method and apparatus for manufacture of a squirrel cage rotor. 3,665,593, 5-30-72, Cl. 29-598.000.
Savage, James R.: *See—*
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Savage, Joseph. Ferrule assembly for a push broom or the like. 3,682,516, 8-8-72, Cl. 306-30.000.
Savage Laboratories, Inc.: *See—*
Karnaky, Karl J.; and McShane, James E., 3,663,689.
Savage, Michael Philip: *See—*
Hoyle, William; and Savage, Michael Philip, 3,686,170.
Savage, Paul E.; and Sperline, Paul D. Time delay control. 3,680,539, 8-1-72, Cl. 123-198.0db.
Savage, Robert H.; deceased (by Savage, Deborah F.; administratrix) , to Art Metal-Knoll Corporation. Guide rod locking and releasing mechanism for file drawers. 3,655,292, 4-11-72, Cl. 402-63.
Savage, W. J., Co., Inc.: *See—*
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Savageau, Robert George: *See—*
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Savarieau, Henri, to Alkan, R., & Cie. Towing device for sleeves towed by an aircraft. 3,645,482, 2-29-72, Cl. 244-137.
Savas, John, to Republic Steel Corporation. Heat treatable, high strength, high toughness, low carbon, NI-MO alloy steel. 3,645,721, 2-29-72, Cl. 75-123.
Saveliev, Leonid Ivanovich: *See—*
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Saveth, Ivan H., to Thermoformed Plastics Corporation. Cover for spool. 3,672,598, 6-27-72, Cl. 242-118.200.
Savey, Lenfred L., to Philco-Ford Corporation. Panel room status indicator system and room unit therefor. 3,705,422, 12-5-72, Cl. 340-286.00r.
Savickas, Anthony P. Machine for producing simulated bamboo. 3,632,273, 1-4-72, Cl. 425-392.
Savides, Christos: *See—*
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Murray, Robert William; and Savides, Christos, 3,663,502.
Savides, Savas P. Pocket noise making and alarm device. 3,670,321, 6-13-72, Cl. 340-384.000.
Savidge, Alexander B. Speed measuring instrument. 3,636,775, 1-25-72, Cl. 73-507.
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Savioli, Giulio V.: *See—*
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Savit, Carl H., to Western Geophysical Company of America. Method of displaying seismic data. 3,662,325, 5-9-72, Cl. 340-15.5ds.
Savit, Carl H., to Western Geophysical Company of America. Extended area acoustic impulse generator. 3,670,839, 6-20-72, Cl. 181-.50h.
Savit, Carl H., to Western Geophysical Company of America. Method for measuring the characteristics of mechanical-to-electrical transducers. 3,693,400, 9-26-72, Cl. 73-1.000.
Savit, Carl H. Method of geophysical prospecting by measuring the attenuation of seismic waves in the earth. 3,706,069, 12-12-72, Cl. 340-15.5cp.
Savit, Joseph; Guzik, Rudolph P.; Wayne, Harry A.; Saklikar, Arvind R.; and Van Eck, Jack M., to American Photocopy Equipment Company. Electrostatic developing system. 3,669,073, 6-13-72, Cl. 118-637.000.
Savitsky, Evgeny Mikhailovich: *See—*
Stroganov, Genrikh Borisovich; Savitsky, Evgeny Mikhailovich; Tikhova, Nina Mikhailovna; Terekhova, Vera Fedorovna; Volkov, Mstislav Vasilievich; Sivash, Konstantin Mitrofanovich; and Borodkin, Vladislav Sergeevich, 3,687,135.
Savoca, Paul C.; and Marasco, Anthony D., to Nottingham, J. B., & Co., Inc. Separable plug. 3,641,478, 2-8-72, Cl. 339-63.
Savoca, Paul C.; and Marasco, Anthony D., to Nottingham, J. B., & Co., Inc. Replaceable intermediate socket and play member. 3,688,244, 8-29-72, Cl. 339-6.000.
Savonkin, Nikolai Porfirievich: *See—*
Maslennikov, Konstantin Nikolaevich; Argunov, Jury Vasilievich; Savonkin, Nikolai Porfirievich; Smyvin, Rudolf Mikhailovich; and Chzhen, Igor Alexeevich, 3,688,141.
Savor, Dennis E., to Combustion Engineering, Inc. Apparatus for initiating the heat generation phase of an electroslag refining process. 3,654,373, 4-4-72, Cl. 13-9.
Savory, Anthony James, to Lucas, Joseph, (Industries) Limited. Apparatus for hot runner injection moulding. 3,669,596, 6-13-72, Cl. 18-30.
Savory Equipment, Inc.: *See—*
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Savote, Hilbert J., Jr. Underwater pipeline-riser clamps for use on oil and gas pipelines. 3,664,621, 5-23-72, Cl. 248-44.00r.
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Sawa, Kenneth B.; and Bleak, Thomas M., to Beckman Instruments, Inc. Temperature control circuit with zero average temperature offset error. 3,678,247, 7-18-72, Cl. 219-501.000.
Sawa, Kenneth B.; and Neti, Radhakrishna M., to Beckman Instruments, Inc. Electrochemical cell. 3,686,091, 8-22-72, Cl. 204-195.00f.
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Sawa, Yoshi; Itoh, Takashi; Kojima, Minoru; and Sotomura, Mikio, to Kanegafuchi Boseki Kabushiki Kaisha. Process for manufacturing fibrous structure having excellent recovery from extension by treatment with polyorganosiloxane and a polyethylene glycol or erivative thereof. 3,639,154, 2-1-72, Cl. 117-138.8.
Sawa, Yoshiro; Maeda, Ryozo; and Tada, Haruhiko, to Shionogi & Co., Ltd. L-N Allylic-3-hydroxy-6-oxo-morphinans. 3,654,280, 4-4-72, Cl. 260-285.
Sawa, Yoshiro; Maeda, Ryozo; and Irisawa, Junji, to Shionogi & Co., Ltd. Process for removing phenolic hydroxyl group from phenolic compounds. 3,707,470, 12-26-72, Cl. 260-285.000.
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Sawada, Eiji, to Denki Onkyo Co., Ltd. Deflection yokes for cathode ray tubes. 3,671,894, 6-20-72, Cl. 335-210.000.
Sawada, Eiji, to Denki Onkyo Co., Ltd. Toroidal type deflection coils for cathode ray tubes. 3,694,781, 9-26-72, Cl. 335-210.000.
Sawada, Fred H.: *See—*
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Sawada, Hiraki; and Masaki, Kenji. Engine exhaust gas oxidizing system. 3,662,541, 5-16-72, Cl. 60-30.00r.
Sawada, Hiraki, to Nissan Motor Company, Limited. Air-pollution preventing system. 3,673,997, 7-4-72, Cl. 123-136.000.
Sawada, Hiroyuki; Miyawaki, Saburo; and Ishikawa, Hajime. Apparatus for continuously making a hose. 3,671,359, 6-20-72, Cl. 156-436.000.
Sawada, Kiyoshi: *See—*
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Sawada, Koshichi: *See—*
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Sawada, Minoru: *See—*
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Sawada, Oshio, to Aisin Seiki Kabushiki Kaisha. Basting stitch mechanism for household zigzag sewing machine. 3,696,769, 10-10-72, Cl. 112-159.000.
Sawada, Toshio, to Aisin Seiki Kabushiki Kaisha. Control means for buttonhole zigzag sewing machine. 3,670,676, 6-20-72, Cl. 112-158.00b.

Sawafuji Electric Co., Ltd.: *See—*
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Sawagata, Shinichi: *See—*
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Sawagata, Shinichi; Nakahara, Masakatsu; and Tsuneta, Asahide, to Tokyo Shibaura Electric Co., Ltd. Triple electron gun apparatus provided with convergence electrode. 3,643,121, 2-15-72, Cl. 313-70.

Sawaguchi, Etsuro: *See—*
Kodera, Yoichi; Kitamura, Tomosaburo; and Sawaguchi, Etsuro, 3,632,443.

Sawahara, Masao: *See—*
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Sawai, Masahide, to Sony Corporation. Cathode ray tube. 3,651,369, 3-21-72, Cl. 315-13.

Sawai, Masanobu: *See—*
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Sawairi, Hitoshi; Kurihara, Yoshio; Takahashi, Kazuhiko; Hayakawa, Yoshihiko; and Hataya, Yukio, to Matsushita Electric Industrial Co., Ltd. AM-FM radio receiver having novel RF input circuit. 3,702,968, 11-14-72, Cl. 325-315.000.

Sawaka, Jiro; Misaki, Tetsuo; Okabe, Masao; Yasui, Hajime; Hanada, Kazunori; and Okazaki, Tadayasu, to Taisho Pharmaceutical Ltd. Process for the preparation of amylase. 3,652,400, 3-28-72, Cl. 195-66.

Sawaki, Ryoichi: *See—*
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Sawaki, Teiji: *See—*
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Sawaki, Teiji; and Otsuka, Sigenobu, 20% to Toa Wool Spinning & Weaving Co. Ltd., 40% to Sawaki, Teiji and 40% to Otsuka, Sigenobu. Method of manufacturing nonwoven fabric with pattern formed thereon. 3,649,400, 3-14-72, Cl. 156-148.

Sawamura, Osamu: *See—*
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Sawamura, Robert T., to Honeywell Inc. Transfer function monitoring apparatus. 3,643,073, 2-15-72, Cl. 235-150.2.

Sawamura, Yasumasa: *See—*
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Sawano, Toshimi; Koike, Hiroshi; Kurata, Naoji; and Okuda, Yukio, to Nippon Shokubai Kagaku Kogyo Co. Ltd. Process for preparation of sulphonic acids. 3,660,471, 5-2-72, Cl. 260-513.

Sawato, Iwao: *See—*
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Sawazi, Masao: *See—*
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Sawazu, Toshihiko: *See—*
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Garfinkel, Harmon M.; Sawchuk, Loris G.; and Stookey, Stanley D., 3,656,923.

Sawert, Walter, to Continental Can Company, Inc. Margin preparation machine. 3,651,606, 3-28-72, Cl. 51-80.

Sawhill, Duane L.: *See—*
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Sawhill, Duane L., to Olin Corporation. Sodium phosphate recovery process. 3,672,827, 6-27-72, Cl. 23-107.000.

Sawicki, Frederick F.: *See—*
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Sawicki, Joseph J.: *See—*
Yates, Lester R.; Dorsey, Charles M., Jr.; Howell, John B.; Conklin, Winfred S.; Sawicki, Joseph J.; Shepherd, Reeves T.; and Soares, Silvio, 3,641,434.

Sawko, Paul M., to United States of America, National Aeronautics and Space Administration. Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines. 3,663,464, 5-16-72, Cl. 260-2.5fp.

Sawko, Paul M., to United States of America, National Aeronautics and Space Administration. Intumescent paint containing nitrile rubber. 3,702,841, 11-14-72, Cl. 260-2.50f.

Sawmill Hydraulics, Inc.: *See—*
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Sawtelle, Donald W.: *See—*
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Sawtelle, James T.: *See—*
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Sawyer, Arthur W.; and Csejka, David A., to Olin Corporation. Water-insensitive hydraulic fluids containing bis-borate esters or bridged-borate esters. 3,635,825, 1-18-72, Cl. 252-75.

Sawyer, Arthur W.; and Csejka, David A., to Olin Mathieson Chemical Corporation. Borate esters prepared by successive reactions of boric acid with glycol monoethers and polyols. 3,637,794, 1-25-72, Cl. 260-462.

Sawyer, Bruce A. Magnetic take-up device for umbilical cable or the like. 3,643,195, 2-15-72, Cl. 335-285.

Sawyer, Carl B.: *See—*
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Sawyer, David W., to Aluminum Company of America. Extrusion lubricant. 3,637,498, 1-25-72, Cl. 252-30.

Sawyer, David W., to Aluminum Company of America. Oil and water-base lubricant; that, as to improvements in oil and water-base lubricants. 3,657,126, 4-18-72, Cl. 252-49.5.

Sawyer, Edgar W., Jr.; and Dzierzanowski, Frank J. Paper containing electroconductive pigment and use thereof. 3,694,202, 9-26-72, Cl. 96-1.800.

Sawyer, Elbert M.; and Haas, William M., to General Motors Corporation. Circuit for dissipating the potential induced in each phase winding of a cycloconverter operated motor upon termination of conduction therethrough. 3,684,935, 8-15-72, Cl. 318-227.000.

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Sawyer, John M., to Goodyear Tire & Rubber Company, The. Foam structure with protective overcoat. 3,698,927, 10-17-72, Cl. 117-33.300.

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Sawyer, Rene C., Jr.: *See—*
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Sawyer, Roy D., to Nalco Chemical Company. Corrosion inhibition. 3,649,167, 3-14-72, Cl. 21-2.5.

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Saxon, Daniel I., to Eastman Kodak Company. Heat transfer roll with separate temperature zones for processing materials. 3,662,821, 5-16-72, Cl. 165-89.000.

Saxon Industries, Inc.: *See—*
Van Auken, John; Kaufman, M. Gene; and Pfaff, William A., 3,677,637.
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Saxton, Arthur L., to Esso Research and Engineering Company. Fluid coking process incorporating gasification of product ore. 3,661,543, 5-9-72, Cl. 48-206.
Saxton, Arthur L., to Esso Research and Engineering Company. Two stage fluid coking. 3,671,424, 6-20-72, Cl. 208-127.000.
Saxton, Arthur L.; and Jenkinson, Ronald J., to Esso Research and Engineering Company. Catalytic cracking process. 3,687,841, 8-29-72, Cl. 208-164.000.
Saxton Products, Inc.: *See—*
Firestone, Jerome, 3,660,797.
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Jarmalow, Benjamin, 3,680,810.
Say, Donald L.; and Smithgall, Harry E., to Sylvania Electric Products, Inc. Method of fabricating a multibeam electron gun structure. 3,686,727, 8-29-72, Cl. 29-25.160.
Say, Donald L., to GTE Sylvania Incorporated. Electrode alignment and assembling device. 3,702,020, 11-7-72, Cl. 29-25.190.
Sayanagi, Kazuo, to Canon Kabushiki Kaisha. Stereoscopic photograph system using a stereoscopic attachment to a camera. 3,674,339, 7-4-72, Cl. 350-130.000.
Sayce, Ian George: *See—*
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Sayce, Ian George. Production of fluorine or volatile fluorine compounds using plasma jet anode. 3,684,667, 8-15-72, Cl. 204-60.000.
Sayed, Aziz El: *See—*
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Sayer, William H., Jr., to Varian Associates. Microwave applicator employing a broadside slot radiator. 3,705,283, 12-5-72, Cl. 219-10.550.
Sayers, Ben, Limited: *See—*
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Sayers, Eugene H.: *See—*
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Sayers, George M.: *See—*
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Sayers, Robert P., to FMC Corporation. Radioactive waste storage system and method. 3,663,817, 5-16-72, Cl. 250-106.
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Nashu, Abdul-Munim; Ulrich, Henri; and Sayigh, Adnan A. R., 3,652,738.
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Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., 3,639,534.
Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, to Upjohn Company, The. Light sensitive polyurethanes prepared from hydroxyl containing polymer and an isocyanato-stilbene compound. 3,644,289, 2-22-72, Cl. 260-47.
Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, to Upjohn Company, The. Radiation sensitive polyurethanes. 3,652,504, 3-28-72, Cl. 260-77.5.
Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, to Upjohn Company, The. Radiation sensitive polyurethanes. 3,652,505, 3-28-72, Cl. 260-77.5.
Sayigh, Adnan A. R.; Tucker, Benjamin W.; and Ulrich, Henri, to Upjohn Company, The. Novel azidosulfonylcarbanilates. 3,652,599, 3-28-72, Cl. 260-349.
Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, to Upjohn Company, The. Novel compositions. 3,657,199, 4-18-72, Cl. 260-78.5.
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Saylak, Donald; and Karabela, Arthur E., to United States of America, Air Force. Surface treatment process for solid rocket propellant composition. 3,650,858, 3-21-72, Cl. 149-109.
Sayles, Charles Philip: *See—*
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Sayles, David C., to United States of America, Army. Composite propellant containing ballistic modifiers derived from metal chelates. 3,677,839, 7-18-72, Cl. 149-19.000.
Sayles, David C., to United States of America, Army. Process for making polyketene-imines. 3,686,310, 8-22-72, Cl. 260-566.00r.
Sayles, David C., to United States of America, Army. High temperature-resistant propellants. 3,692,600, 9-19-72, Cl. 149-19.000.
Sayles, David C., to United States of America, Army. Polyurethane propellant composition containing isodecyl orthoformate. 3,694,277, 9-26-72, Cl. 149-19.000.
Sayles, James Norman. Drain plug. 3,671,982, 6-27-72, Cl. 4-295.000.
Sayles, Louis F. Collapsible signal assembly. 3,675,613, 7-11-72, Cl. 116-63.00p.
Saylor, Dwight Proffer: *See—*
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Sayre, Edward Vale, to New York University. Method of protecting and preserving stone objects. 3,704,159, 11-28-72, Cl. 117-123.
Sayre, Jack L., to United States of America, Navy. Claw arms with swivel plate. 3,672,717, 6-27-72, Cl. 294-104.000.
Sayre, Robert E.; Campbell, Lewis B.; and Pietrzak, Joe P., to General Motors Corporation. Method of fabricating an insulated storage bin. 3,705,831, 12-12-72, Cl. 156-227.000.
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Scala, Luciano C.; and Bartlett, Wilford O., to Westinghouse Electric Corporation. Non-aqueous electrophoretic compositions comprising liquid nitroalkanes as a solvent. 3,676,383, 7-11-72, Cl. 260-22.00r.
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Scales, John Tracey; and Goddard, David, to National Research Development Corporation. Prosthetic shoulder joint. 3,694,820, 10-3-72, Cl. 3-1.000.
Scales, John Tracey; and Goddard, David, to National Research Development Corporation. Prosthetic acetabular devices. 3,698,017, 10-17-72, Cl. 3-1.000.

Scales, Ralph E.; and Whitley, James O., Jr., to Bethlehem Steel Corporation. Apparatus for transferring fluid from an underwater storage unit to a floating vessel. 3,700,014, 10-24-72, Cl. 141-388.000.

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Scallan, John Patrick. Container post locking member. 3,692,342, 9-19-72, Cl. 292-128.000.

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Scaminaci, James, Jr.; and Knowles, Robert G., to Litton Systems, Inc. Method of packaging electrical connectors and assembling same into a wire wrap machine. 3,641,666, 2-15-72, Cl. 29-629.

Scaminaci, James, Jr.; and Knowles, Robert G., to Litton Systems, Inc. Frame for accurately positioning and mounting electrical connectors. 3,680,193, 8-1-72, Cl. 29-271.000.

Scammon, Harrison B., Jr.: *See—*
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Scanidi, Adam M., to Weatherhead Company, The. Hose coupling. 3,685,860, 8-22-72, Cl. 285-249.000.

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Scanlon, F. Taylor, to Honeywell Information Systems Inc. Machine process for positioning interconnected components to minimize interconnecting line length. 3,681,782, 8-1-72, Cl. 444-1.000.

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Scanlon, James D.: *See—*
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Scanlon, John J.: *See—*
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Scanlon, John J., to Remington Arms Company, Inc. Expendable case with vented base cap. 3,696,749, 10-10-72, Cl. 102-49.7.

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Scanlon, Patricia M.; and Young, Elwyn Richard, to Grace, W. R., & Co. Preparation of thionamides. 3,636,015, 1-18-72, Cl. 260-402.5.

Scanlon, Patricia M.; and Young, Elwyn Richard, to Grace, W. R., & Co. Process for preparing amidine salts. 3,641,103, 2-8-72, Cl. 260-465.4.

Scanlon, Patricia M.; and Thunberg, Jon C., to Grace, W. R., & Co. Process for preparing chelating agents. 3,689,544, 9-5-72, Cl. 260-534.00e.

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Scannell, Paul R.; La Force, Phil D.; and O'Connell, Wayne T., to United Aircraft Corporation. Variable thrust reaction motor with multiple injector orifices. 3,675,425, 7-11-72, Cl. 60-258.000.

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Scaramucci, Domer. Jacketed valve. 3,636,972, 1-25-72, Cl. 137-340.

Scaramucci, Domer. Disc valve assembly with rock-in valve member. 3,642,247, 2-15-72, Cl. 251-148.

Scaramucci, Domer; and Adams, Ladd M., to Balon Corporation. Split body valve assembly. 3,647,179, 3-7-72, Cl. 251-172.

Scaramucci, Domer. Butterfly valve assembly having split body. 3,666,233, 5-30-72, Cl. 251-151.000.

Scaramucci, Domer. Spherical disc valve assembly. 3,666,234, 5-30-72, Cl. 251-151.

Scaramucci, Domer, to Balon Corporation. Unstressed seats for between flange valves. 3,667,725, 6-6-72, Cl. 251-151.000.

Scaramucci, Domer. Valve assembly with drop-type stem. 3,671,010, 6-20-72, Cl. 251-151.000.

Scaramucci, Domer. Disc valve with molded-in-place liner and replaceable seat. 3,675,677, 7-11-72, Cl. 137-375.000.

Scaramucci, Domer. Apparatus for molding a seat in a valve body. 3,675,888, 7-11-72, Cl. 249-57.000.

Scaramucci, Domer. Self-aligning trunnion ball valve. 3,705,707, 12-12-72, Cl. 251-84.000.

Scaravilli, Joseph V., to Jarva, Inc. Gage scraper. 3,674,314, 7-4-72, Cl. 299-86.000.

Scarborough, Alexander A., to Deering Milliken Research Corporation. Flame retardant dust control fabric. 3,695,926, 10-3-72, Cl. 117-136.000.

Scarborough, Paul Edward, Jr.; and Watson, David Stuckey, to Bell Telephone Laboratories, Incorporated. System for evaluating light pen strikes. 3,651,508, 3-21-72, Cl. 340-324.

Scarborough, Philip H. Retractable twist lock. 3,682,423, 8-8-72, Cl. 248-119.000.

Scarbrough, Alfred D., to Bunker-Ramo Corporation, The. Graphic data entry system. 3,644,671, 2-22-72, Cl. 178-18.

Scarbrough, Alfred D., to Bunker-Ramo Corporation, The. Method of making a batch fabricated magnetic wire memory. 3,685,145, 8-22-72, Cl. 29-604.000.

Scarbrough, Alfred D. 3D-coaxial memory construction and method of making. 3,704,455, 11-28-72, Cl. 340-173.0sp.

Scarbrough, Don R.: *See—*
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Scardiglia, Frank; Dissen, Israel J.; and Hokama, Takeo, to Velsicol Chemical Corporation. Polyester Compositions and air-drying compositions thereof. 3,663,658, 5-16-72, Cl. 260-869.

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Scarnato, Thomas J.; and Peacock, Peter J., to International Harvester Company. Drive elements for harvesters. 3,633,345, 1-11-72, Cl. 56-14.1.

Scarnato, Thomas J.; Adams, James R.; Keller, Arthur H.; and Peacock, Peter J., to International Harvester Company. Tire bumper for trailer tongue. 3,637,237, 1-25-72, Cl. 280-462.

Scarnato, Thomas J.; Meyer, Martin H.; and Peacock, Peter J., to International Harvester Company. Convertible reel. 3,641,750, 2-15-72, Cl. 56-226.
Scarnato, Thomas J.; Meyer, Martin H.; and Cicci, George B., to International Harvester Company. Fastening device. 3,645,574, 2-29-72, Cl. 292-242.
Scarnato, Thomas J.; and Patterson, N. Donald, to International Harvester Company. Push over bar. 3,672,132, 6-27-72, Cl. 56-1.000.
Scarnato, Thomas J.; Tufts, Guy O.; Peacock, Peter J.; and Cicci, George B., to International Harvester Company. Forage harvester. 3,672,138, 6-27-72, Cl. 56-158.000.
Scarnato, Thomas J.; Gordon, Paul C.; Hunter, Stephen R.; Krage, Paul W.; and Zablocki, Richard A., to International Harvester Company. Harvesting machine. 3,673,779, 7-4-72, Cl. 56-503.000.
Scarnato, Thomas J.; Dryan, James J.; Lawler, Craig M.; and Sorensen, Robert, to International Harvester Company. Flail shredder. 3,678,671, 7-25-72, Cl. 56-505.000.
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Scarrott, Gordon George, to International Computers Limited. Linear motors for head actuators. 3,694,678, 9-26-72, Cl. 310-13.000.
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Schack, Carl J.; Pilipovich, Donald; and Wilson, Richard D., to North American Rockwell Corporation. Synthesis of chlorine and bromine perchlorate. 3,694,172, 9-26-72, Cl. 23-367.000.
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Schad, Charles A., to Kalium Chemicals Limited. Magnetometer consisting of two sensors with means for unbalancing each sensor at null condition. 3,701,007, 10-24-72, Cl. 324-43.00r.
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Schaefer, Richard J. Recirculating ozone treatment apparatus. 3,685,656, 8-22-72, Cl. 210-195.000.
Schaefer, Robert B.; and Jernberg, Robert, to Pennwalt Corporation. Stackable compressed gas cylinders. 3,631,974, 1-4-72, Cl. 206-65.
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Schaeff, Friedrich. Axle suspension for automotive vehicles. 3,664,452, 5-23-72, Cl. 180-71.
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Schaeffler, Otto S., to United States of America, Interior, mesne. Process for producing semipermeable membranes. 3,669,954, 6-13-72, Cl. 260-230.00r.
Schaeren, Sidney Frank, to Hoffmann-La Roche Inc. Process for the preparation of 4-methyl-5-alkoxy-oxazoles. 3,669,984, 6-13-72, Cl. 260-307.00r.
Schaerer, Andre. Method for continuously manufacturing foamed plastic profiles. 3,634,565, 1-11-72, Cl. 264-54.
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Schanck, James L., to Babcock & Wilcox Company, The. Stainless steel. 3,701,653, 10-31-72, Cl. 75-124.000.
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Schanke, Robert L., to Lincoln Tool & Manufacturing Co. Double needle winding head. 3,677,480, 7-18-72, Cl. 242-1.10r.
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Schankler, Martin M. Prefabricated swimming pool construction. 3,660,957, 5-9-72, Cl. 52-742.
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Schapel, Rodney E. Positive displacement pump. 3,692,438, 9-19-72, Cl. 417-547.000.
Schaper & Brunner K.G.: *See—*
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Schaper, Hans; Springer, Kurt; and Kyburz, Edgar, to Swiss Aluminum Ltd. Crust breaker for aluminum fusion electrolysis cells. 3,664,946, 5-23-72, Cl. 204-243.00r.
Schapler, Fred L. Anti-pollution cattle feeding stations. 3,662,715, 5-16-72, Cl. 119-28.

Schappell, Frederick G., to Hercules Incorporated. 1,3,3-Trimethylbis(α-t-butylperoxyisopropyl)-1-phenylindane. 3,668,259, 6-6-72, Cl. 260e610.00r.
Schappell, Frederick G., to Hercules Incorporated. T-butyl carbocyclic substituted cumene peroxides as curing agents. 3,681,316, 8-1-72, Cl. 260-94.9ga.
Schard, Malcolm P.: *See—*
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Scharf, Hans; Poplat, Gerhard; and Steinberg, Eckhard, to Siemens Aktiengesellschaft. Method and device for reducing the spacing between the jacket tube of nuclear reactor fuel rods and the charge of fuel received therein. 3,657,793, 4-25-72, Cl. 29-421.
Scharf, Hans-Dieter; Droste, Wilhelm; and Liebig, Rita, to Merck, E., Aktiengesellschaft. 4,5-Dichloro-1,3-dioxacyclopentenone. 3,641,057, 2-8-72, Cl. 260-340.2.
Scharf, Harold; Bender, Charles E.; and Fraser, Douglas S., to Virtis Company, Inc., The. Spinner flask. 3,649,465, 3-14-72, Cl. 195-143.
Scharf, Herbert D. Variable crimping eccentric press. 3,639,966, 2-8-72, Cl. 29-203.
Scharf, Herbert D. Double end terminal attachment device. 3,693,231, 9-26-72, Cl. 29-203.00d.
Scharf, Rolf: *See—*
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Scharfen, Hans; and Feustel, Wolfgang, to Forkardt, Paul, Kommanditgesellschaft. Chuck for machine tools. 3,682,492, 8-8-72, Cl. 279-5.000.
Scharfen, Hans; and Steinberger, Josef, to Forkardt, Paul, Kommanditgesellschaft. Power operated clamping device for machine tools. 3,698,729, 10-17-72, Cl. 279-4.000.
Scharfenberg, Walter, to Scharfenbergkupplung G.m.b.H. Buffer coupling. 3,684,105, 8-15-72, Cl. 213-14.000.
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Scharkowitz, Eckhart, to Siemens Aktiengesellschaft. Buffer store with a control circuit for each stage. 3,665,424, 5-23-72, Cl. 340-173.
Scharlack, Ronald S., to Kelsey-Hayes Company. Skid control system. 3,647,267, 3-7-72, Cl. 303-21.
Scharlack, Ronald S., to Kelsey-Hayes Company. Skid control system. 3,663,070, 5-16-72, Cl. 303-21.
Scharli, Otto, to Aktiengesellschaft Brown, Boveri & Cie. Cooling arrangement for semiconductor valves. 3,653,433, 4-4-72, Cl. 165-80.
Scharmann, Garred N.; Warn, Kermit W.; and Mortensen, Donald G., to Wayne Manufacturing Company. Road sweeper conveyor. 3,668,730, 6-13-72, Cl. 15-83.000.
Scharpf, Lewis G.: *See—*
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Scharpf, Lewis G., Jr., to Monsanto Company. Germination of spores. 3,672,956, 6-27-72, Cl. 195-96.000.
Scharpf, Lewis G., Jr., to Monsanto Company. Germination of spores. 3,672,957, 6-27-72, Cl. 195-96.000.
Scharpf, Lewis G., Jr., to Monsanto Company. Germination of spores. 3,687,815, 8-29-72, Cl. 195-96.000.
Scharrer, Roland Pierre Franz, to Arizona Chemical Company, mesne. Treatment of rosin with an aryl thiol. 3,649,612, 3-14-72, Cl. 260-98.
Scharschmidt, Rudolph K., to General Foods Corporation. Toaster Product and process. 3,676,151, 7-11-72, Cl. 99-86.000.
Schartel, Ronald S.: *See—*
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Scharton, Terry D., to Bolt Beranek and Newman Inc. Vibration testing method and apparatus. 3,686,927, 8-29-72, Cl. 73-71.600.
Scharz, Armin; and Scharz, Oskar. Automatic hit indicating shooting target. 3,690,661, 9-12-72, Cl. 273-102.20r.
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Schaschel, Erich T., to Owens-Illinois, Inc. Reaction products of silicon monoxide and organic compounds having active hydrogen atoms and methods of making the same. 3,660,448, 5-2-72, Cl. 260-448.2.
Schaschel, Erich T., to Owens-Illinois, Inc. Reaction products of silicon monoxide and acetylenes and methods of preparing the same. 3,660,449, 5-2-72, Cl. 260-448.2.
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Schauer, Frank N.: *See—*
Einerson, Amos M.; Schauer, Frank N.; and Abelle, Thomas G., 3,684,400.
Schauer, George W., Jr., to General Motors Corporation. Oven shelf adapted to absorb microwave energy and conduct heat to a load. 3,662,141, 5-9-72, Cl. 219-10.55.
Schauer, George W., Jr., to General Motors Corporation. Oven with temperature limiting protection and indicating. 3,686,476, 8-22-72, Cl. 219-413.000.
Schaufelberger, Arthur H., to Sperry Rand Corporation. Multiple beam array antenna. 3,697,998, 10-10-72, Cl. 343-754.000.
Schauffele, Carl N.; and Metzger, Lenard M., to Eastman Kodak Company. Disc controlled interlaced scanning raster. 3,707,600, 12-26-72, Cl. 178-7.200.
Schauffler, David J., to Bendix Corporation, The. Flexure bearing with low rotational restraint. 3,703,831, 11-28-72, Cl. 74-5.000.
Schauffler, Peter P. Transfer system. 3,638,576, 2-1-72, Cl. 104-1.
Schauls, James J., to Trane Company, The. Distributor for plate type heat exchangers having end headers. 3,669,186, 6-13-72, Cl. 165-166.
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Schaum, Helmut, to Bunaweske Huls Gesellschaft mit beschrankter Haftung, mesne. Process for preparing amorphous copolymers from ethylene and higher α-olefins by means of modified. 3,647,768, 3-7-72, Cl. 260-80.78.
Schaumann, Heinrich, & Co., G.m.b.H.: *See—*
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Winter, Werner; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; and Ribbentrop, Annemarie, 3,639,423.
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Schaumberg, Georges. Process for the continuous deposition of a protective layer on forged, rolled or foundry products. 3,690,913, 9-12-72, Cl. 117-23.000.
Schaumburg, Georges. Method of making and treating a continuously cast metal body. 3,633,650, 1-11-72, Cl. 164-76.
Schaumburg, Georges. Method for treating a hot-rolled metal body and the like. 3,648,349, 3-14-72, Cl. 29-407.
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Schaun, Wolfgang Eugene, to Dentsply International Inc. Dental ceramic firing ovens. 3,655,941, 4-11-72, Cl. 219-399.
Schaus, Douglas I. Golf training device. 3,677,551, 7-18-72, Cl. 273-183.00b.
Schaus, Karl L. Gas meter diaphragm having intermediate stabilizing and tensioning ring. 3,659,448, 5-2-72, Cl. 73-279.000.

Schaus, Orland Otto, to Canadian Breweries Limited. Apparatus for fermenting brewer's wort. 3,650,200, 3-21-72, Cl. 99-277.2.
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Sturm, Hans Juergen; Armbrust, Herbert; Eisert, Manfred; and Schecker, Hans-Georg, 3,658,893.
Schecker, Hans-Georg; Koehler, Waldemar; Armbrust, Herbert; Sturm, Hans Juergen; and Kilpper, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous manufacture of 1-methyl-3-phenyl-indans. 3,686,339, 8-22-72, Cl. 260-668.00f.
Scheder, John R., to Purity Electrochemicals Company. Process for the treatment of liquid whey. 3,687,682, 8-29-72, Cl. 99-57.000.
Schedewie, Franz, to International Business Machines Corporation. Optical character generator. 3,692,397, 9-19-72, Cl. 353-25.000.
Schedler, Wolfgang; and Bodem, Johann, to Metallwerk Plansee. Cutting of deposit forming steel and cutting tools for such steels. 3,696,707, 10-10-72, Cl. 90-11.00c.
Scheel, John R.: *See—*
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Scheel, Louis W., to Dale Electronics, Inc. Adjustable potentiometer with contactor ratchet and central post securing means for base plate. 3,639,878, 2-1-72, Cl. 338-174.
Scheele, Fritz; Frania, Josef; and Ortmann, Walter, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Monitoring device for fluid pressure systems. 3,656,814, 4-18-72, Cl. 303-19.
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Scheer, David W., to Honeywell Inc. Tape drive error cancelling system. 3,648,141, 3-7-72, Cl. 318-314.
Scheer, David W., to Honeywell Inc. Precessing analog trace display. 3,653,027, 3-28-72, Cl. 340-324.
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Scheer, Kurt, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for displaying distance reference marks on a radar screen. 3,646,557, 2-29-72, Cl. 343-13.
Scheerer, Arthur M., to Curtiss-Wright Corporation. Automatic control system for a turbojet engine employed in a stationary environment. 3,691,759, 9-19-72, Cl. 60-39.090.
Scheerer, Ernest O. Rural mail boxes. 3,675,845, 7-11-72, Cl. 232-35.000.
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Scheffel, John W.; Fischer, Paul W.; and Schmidt, Ethan R., to Union Oil Company of California. Method and composition for treating high-temperature subterranean formations. 3,684,012, 8-15-72, Cl. 166-283.000.
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Scheffer, Harry, to Bollhoff & Co. Self-tapping screw insert. 3,662,643, 5-16-72, Cl. 85-46.
Scheffer, Hendrik J.: *See—*
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Schei, Asle, to Allmanna Svenska Elektriska Aktiebolaget. Triggering circuit for triggering series-connected spark gaps. 3,662,215, 5-9-72, Cl. 315-189.
Scheib, William R., to Aetva-Standard Engineering Company. Looper apparatus for strip material. 3,687,348, 8-29-72, Cl. 226-113.000.
Scheibe, Elias W., to General Motors Corporation. Kickback control and wear adjustment mechanism for disc brake. 3,645,362, 2-29-72, Cl. 188-71.8.
Scheibe, Harold R.; and Blankenship, John E., to United States of America, Navy. Helicopter cyclic and collective pitch mechanism. 3,700,350, 10-24-72, Cl. 416-114.000.
Scheibel, Axel: *See—*
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Scheibel, Josef, to Braun Aktiengesellschaft. Selective control system for slide projectors. 3,652,994, 3-28-72, Cl. 340-147.
Scheibel, Josef; and Schadt, Karl-Heinz, to Niezoldi & Kramer GmbH. Photographic apparatus for use in daylight and artificial light. 3,672,268, 6-27-72, Cl. 95-10.0ce.
Scheibel, Josef, to Braun Aktiengesellschaft. Magnifier with optical contrast equalizer. 3,707,327, 12-26-72, Cl. 355-71.000.
Scheibel, Karl-Heinz; and Holzer, Wilhelm, to Siemens Aktiengesellschaft. Automatic electric switch. 3,659,235, 4-25-72, Cl. 335-35.
Scheibelhoffer, Anthony S., to Goodyear Tire & Rubber Company, The. Polyurethane reaction mixture based on anhydrous diamine-ketone curative. 3,699,063, 10-17-72, Cl. 260-18.0tn.
Scheiber, Peter. Quadrasonic sound system. 3,632,886, 1-4-72, Cl. 179-15.
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Scheibling, Robert, to Siamp-Cedap, Societe Anonyme Monegasque. Slot die for the production of multi-layer laminates. 3,694,119, 9-26-72, Cl. 425-131.000.
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Scheid, William J., to Raytheon Company. Odor control appliance. 3,700,378, 10-24-72, Cl. 431-253.000.
Scheide, Juergen, to Farbenfabriken Bayer Aktiengesellschaft. Process for preserving meat. 3,667,970, 6-6-72, Cl. 99-169.
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Scheidweiler, Andreas; and Meier, Otto, to Cerberus AG. Ionization fire alarm with insulation monitoring system. 3,676,680, 7-11-72, Cl. 250-83.56ft.
Scheidweiler, Andreas; Muller, Peter; and Kuhn, Max, to Cerferus AG. Smoke detector with at least one smoke measuring chamber. 3,681,603, 8-1-72, Cl. 250-83.6ft.
Scheier, Donald J., to Johnson, Gordon, Company. Poultry eviscerating machine. 3,653,093, 4-4-72, Cl. 17-11.
Scheifele, Hudson B. Cage and roller unit. 3,659,912, 5-2-72, Cl. 308-217.

Scheifele, Hudson B. Composite tapered roller bearing race. 3,692,374, 9-19-72, Cl. 308-216.000.

Scheinberg, Israel Herbert. Filters and carbon monoxide indicators. 3,693,327, 9-26-72, Cl. 55-274.000.

Scheindel, Christian T., to Clayton Corporation. One-piece spray head and core pin construction therefor. 3,635,406, 1-18-72, Cl. 239-490.

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Scheiner, Bernard J.; Lindstrom, Roald E.; and Henrie, Thomas A., to United States of America, Interior. Extraction of mercury from mercury-bearing materials. 3,639,222, 2-1-72, Cl. 204-94.

Scheiner, Bernard J.; Lindstrom, Ronald E.; and Henrie, Thomas A., to United States of America, Interior. Recovery of gold from carbonaceous ores. 3,639,925, 2-8-72, Cl. 75-101.

Scheinhutte, Hans-Jurgen, to Precisa A.G. Rechenmaschinenfabrik. Selective printer employing inking spark discharge. 3,640,214, 2-8-72, Cl. 101-45.

Scheinkoenig, Robert J.; and Haupt, Robert C., to Allis-Chalmers Manufacturing Company. Fender louver. 3,700,259, 10-24-72, Cl. 280-152.00r.

Scheinpflug, Gunter, to Triumph Werke Nurnberg Aktiengesellschaft. Ribbon fork actuating and locking device. 3,648,818, 3-14-72, Cl. 197-157.

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Scheirer, David E.; and Klingelhoefer, William Christian, to Allied Chemical Corporation. Solvent extraction process for separating water soluble ionic compounds. 3,684,434, 8-15-72, Cl. 423-307.000.

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Scheublein, William A.; Fister, Louis P.; Fitch, Lawrence H.; and Jeney, George K., to Moog Industries, Inc. Vehicle torsion spring suspension assembly. 3,658,312, 4-25-72, Cl. 267-57.
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Scheuer, Fred F., to Dustikin Products, Inc. Cleaning and polishing paper and method of making same. 3,664,064, 5-23-72, Cl. 51-402.
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Scheuerle, Willy. Driving device for heavy motor-trucks. 3,693,741, 9-26-72, Cl. 180-23.000.
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Scheurle, Bruno; and Kelker, Kans, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. p-Alkoxyphenyl esters of 4-capronyloxy benzic acid. 3,689,525, 9-5-72, Cl. 260-473.00r.
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Schexnayder, Lawrence F., to Caterpillar Tractor Company. Fluid motor control system. 3,654,836, 4-11-72, Cl. 91-448.
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Schiavitto, Charles A. Athletic knee supporter and protective device. 3,703,171, 11-21-72, Cl. 128-80.00c.
Schiavone, Anthony E.: *See—*
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Schibler, Luzius, to Ciba Limited. Water-soluble surface-active condensation products [and the products thereof] from aminoplast, alcohol or carboxylic acid, polyol, and salt of sulfur containing acid. 3,645,973, 2-29-72, Cl. 260-67.6.
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Schich, Karl. Apparatus for hot-water and heating installations. 3,664,373, 5-23-72, Cl. 137-565.
Schichman, Daniel; and Hong, Sung Whee, to Uniroyal, Inc. Method of free curing rubber. 3,701,702, 10-31-72, Cl. 156-244.000.
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Schiekel, Manfred; and Reder, Hurt, to Licentia Patent-Verwaltungs-G.m.b.H. Method for making a tube. 3,684,345, 8-15-72, Cl. 316-4.000.
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Schierding, Royce G.; and Tolbert, Tommy L., to Monsanto Company. Method for preparing metal molding compositions. 3,676,916, 7-18-72, Cl. 29-419.000.
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Schieser, Warren J. Telephone use monitor and signalling apparatus. 3,665,111, 5-23-72, Cl. 179-81.00c.
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Schiesser, Walter Hugo. Automatic machine for cutting, cooling, drying and piling rubber sheets. 3,663,135, 5-16-72, Cl. 425-73.
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Schindler, Werner; Schaaff, Karl; and Planitzer, Erich, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Missile construction. 3,652,034, 3-28-72, Cl. 244-3.1.
Schindling, Josef; and Muller, Hermann, to Metallgesellschaft Aktiengesellschaft. Centrifugal dust collector for the waste gases of a sinter machine for ores, building materials and the like. 3,635,003, 1-18-72, Cl. 55-344.
Schink, William N.; and Krol, Harry J., to Indak Manufacturing Corporation. Push-button electrical switches. 3,659,066, 4-25-72, Cl. 200-159.
Schinke, David Paul: *See—*
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Schinke, Georg: *See—*
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Schinker, Bettie Jane. Clothing construction. 3,662,404, 5-16-72, Cl. 2-243.00r.
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Schinner, Thomas J., to Cincinnati Time Recorder Company, Inc., The. Time recording apparatus. 3,638,229, 1-25-72, Cl. 346-24.
Schinzel, Erich: *See—*
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Frischkorn, Hans; Pintschovius, Ulrich; Schinzel, Erich; and Smerz, Otto, 3,641,051.
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Lebkucher, Karl Heinz; Nischwitz, Ehrenfried; and Schinzel, Erich, 3,663,538.
Rosch, Gunter; Linke, Werner; Smerz, Otto; and Schinzel, Erich, 3,690,947.
Schinzel, Erich; Pintschovius, Ulrich; and Lebkucher, Karl Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Optical brighteners of the benzoxazole series. 3,674,781, 7-4-72, Cl. 260-240.00d.
Schipper, Dennis J.: *See—*
Carney, John L., Jr.; and Schipper, Dennis J., 3,659,752.
Coyle, Edward L.; Josephson, Edgar F.; and Schipper, Dennis J., 3,694,925.
Schipper, Dirk A.: *See—*
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Schipper, Gervinus P.: *See—*
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Schipper, Pieter W.: *See—*
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Schipper, Richard A., to Tele Cash, Inc. BCD to binary converter. 3,684,878, 8-15-72, Cl. 235-155.000.
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Schippers, Heinz; and Siemetzki, Hans, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Screw extruders with baffle plates and expeller bodies. 3,633,494, 1-11-72, Cl. 100-90.
Schippers, Heinz; Geil, Walter Remscheid-Lennep; Albrecht, Gerd; and Jung, Reinhold, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Extrusion machines and dies for producing multi-layer tubes or films. 3,642,397, 2-15-72, Cl. 425-109.
Schippers, Heinz, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Apparatus for producing a multi-layer blown tubular thermoplastic film. 3,650,649, 3-21-72, Cl. 425-131.
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Schippers, Heinz; Hensen, Friedhelm; and Jung, Reinhold. Extrusion head for producing a multi-layer blown tubular film. 3,694,292, 9-26-72, Cl. 156-501.000.
Schippers, Heinz; Hensen, Friedhelm; and Lenk, Erich, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Screw extruder for processing thermoplastic materials. 3,701,512, 10-31-72, Cl. 259-191.000.
Schirman, Wesley G.: *See—*
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Dieterich, Manfred; Schirmer, Gunter; Conzelmann, Gerhard; Harlin, Walter; Haustein, Gerhard; and Ocker, Wilhelm, 3,652,924.
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Schirra, Manfred: *See—*
Wincierz, Peter; Ruhle, Manfred; Reddemann, Bernhard H.; Schirra, Manfred; and Bohm, Horst Otto, 3,635,700.
Schirtzinger, Joseph F., to Air Logistics Corporation. Method and apparatus for preventing ice damage to marine structures. 3,669,052, 6-13-72, Cl. 114-.50r.
Schirtzinger, Joseph F., to Air Logistics Corporation. Fiber reinforced parallel resinous structure fabrication. 3,686,048, 8-22-72, Cl. 156-161.000.
Schisla, Robert M.: *See—*
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Adams, Richard Calvin, 3,687,389.
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Rooks, John C., 3,668,641.
Rooks, John C., 3,668,642.
Smith, Ernset L.; Duffy, Arthur R.; and Lyman, Eugene S., 3,669,816.
Schjerven, William N., Jr., to Western Electric Company, Incorporated. Method of recovering solid particulate material from a liquid. 3,696,928, 10-10-72, Cl. 210-75.000.
Schjlz, Jurgen, to Bosch, Robert, G.m.b.H. Circuit for measuring the power consumption of three phase loads. 3,697,872, 10-10-72, Cl. 324-142.000.
Schlachtberger, Ottmar: *See—*
Bertsch, Hanns F.; Schlachtberger, Ottmar; and Graf, Horst, 3,635,013.
Schlachter, Donald A. Skin effect RF bridge filter. 3,704,434, 11-28-72, Cl. 333-75.000.
Schlack, Allen F.; McNally, Thomas J.; and Doris, Thomas A., Jr., to United States of America, Army. Self-destruct projectile and composition. 3,633,512, 1-11-72, Cl. 102-87.
Schlaefer, Francis W.: *See—*
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Schlaepfer, Carl E., to International Business Machines Corporation. Method for merging variable and fixed magnetic data on a credit card or the like. 3,683,413, 8-8-72, Cl. 340-174.10r.
Schlafer, Ludwig: *See—*
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Schlagbauer, Johann: *See—*
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Schlage, Ernest L., to Schlage Lock Company. Cylinder loading tool. 3,664,007, 5-23-72, Cl. 29-271.
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Schlage, Ernest L., 3,664,007.
Schlager, Wilfred C., to Uniroyal, Inc. Method of making a composite plastic article of manufacture. 3,654,012, 4-4-72, Cl. 156-212.
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Schlamp, Herman, to Ronson Corporation. Combined flame height adjusting and gauging mechanism. 3,637,334, 1-25-72, Cl. 431-17.
Schlanger, Samuel. Can sealing apparatus. 3,680,730, 8-1-72, Cl. 220-46.00r.
Schlanger, Samuel L. Safety vehicle for passengers. 3,695,629, 10-3-72, Cl. 280-150.0ab.
Schlapfer, Hans: *See—*
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Schlaphoff, Erwin D. Portable motor vehicle. 3,666,293, 5-30-72, Cl. 280-278.
Schlapp, Albert, to Golde, H. T., G.m.b.H., Firma. Sliding roof construction for a motor vehicle. 3,632,160, 1-4-72, Cl. 296-137.
Schlatter, Gerald Lance: *See—*
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Schlatter, James H.: *See—*
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Schlatter, Rudolph; and Adams, Charles D., to Du Pont de Nemours, E. I., and Company. 2-Benzimidazolecarbamic acid esters from O-phenylenediamines, cyanamide and dialkyl carbonates. 3,637,733, 1-25-72, Cl. 260-309.2.
Schlatzer, Robert K., Jr., to Goodrich, B. F., Company, The. Process of polymerizing a 1,2-monoepoxide with a polymeric hydrocarbyl aluminum alkoxide catalyst. 3,645,920, 2-29-72, Cl. 260-2.
Schlau, Floyd E.: *See—*
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Schlau, Floyd E.; Bosley, Denis V.; Crain, Philip W.; and Douglas, Raymond J., to Mattel, Inc. Toy sound producing flight system. 3,675,361, 7-11-72, Cl. 46-1.00h.
Schlaudroff, Leo M., to General Electric Company. Method for precisely forming and placing insulation in the slots of magnetic cores. 3,703,854, 11-28-72, Cl. 93-1.00g.
Schlecht, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of mucobromic acid. 3,661,987, 5-9-72, Cl. 260-530.
Schlecht, Helmut; and Aurnhammer, Robert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the continuous production of α-chloropropionic acid. 3,671,584, 6-20-72, Cl. 260-539.00r.
Schlecht, Karl. Dual cylinder-concrete pump. 3,667,869, 6-6-72, Cl. 417-346.000.
Schlechter, Melvin M.: *See—*
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Schlechtriem, Werner; and Anton, Eckhard, to Bosch, Robert, G.m.b.H. Fluid-flow regulating apparatus. 3,631,887, 1-4-72, Cl. 137-522.
Schlef, Charles L.: *See—*
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Schlegel, Earl S.; and Schnable, George L., to General Instruments Corporation, mesne. Time delay IGFETS. 3,644,804, 2-22-72, Cl. 317-235.
Schlegel, Franz, to Optische Werke G. Rodenstock. Elbow magnifying lens. 3,663,092, 5-16-72, Cl. 350-176.
Schlegel, Franz; and Graf, Josef, to Optische Werke G. Rodenstock. Fight-lens apochromatic objective. 3,687,523, 8-29-72, Cl. 350-220.000.
Schlegel Manufacturing Company, The: *See—*
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Spaiches, Albert E., 3,694,985.
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Schlegel, William L., to Komline-Sanderson Engineering Corporation. Articulated connector. 3,701,432, 10-31-72, Cl. 210-401.000.
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Schleich, Nicholas P., to Matix Corporation, The. Scroll stripping method and apparatus. 3,640,480, 2-8-72, Cl. 242-56.
Schleich, Nicholas P., to Matix Corporation, The. Apparatus for treating a continuous body under pressure. 3,653,242, 4-4-72, Cl. 95-89.
Schleicher, Allen K.: *See—*
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Schleicher, Harold E., to Arrow-Hart, Inc. Electromagnetically releasable latching means with floating latch member. 3,634,795, 1-11-72, Cl. 335-170.
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Schleicher, Lowell; Miller, Robert E.; and Porter, Erland C., Jr., to National Cash Register Company, The. Capsule-fiber unit manufacture. 3,697,371, 10-10-72, Cl. 162-183.000.
Schleif, Ferber R., to United States of America, Interior. Power system monitoring relay. 3,639,810, 2-1-72, Cl. 317-147.
Schleifenbaum, Karl, to Meteor-Siegen Apparatebau Paul Schmeck G.m.b.H. Paper feed mechanism for photocopying machine. 3,639,055, 2-1-72, Cl. 355-29.
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Schleinkofer, Rudi William, to Sunds Aktiebolag. Method for finely disintegrating pulp, preferentially cellulose pulp, in connection with the bleaching thereof with gaseous bleaching agent. 3,703,435, 11-21-72, Cl. 162-17.000.
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Schlemmer, Lothar; Sabater, Eudaldo; and Kress, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of biaxially oriented polyamide film. 3,652,759, 3-28-72, Cl. 264-289.
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Schlesinger, Robert J.; and Raabe, George A., to Schlesinger, Robert J., mesne. System for generating a hologram. 3,647,959, 3-7-72, Cl. 178-7.87.
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Schletzbaum, John Wayne; and Rodeghiero, Reno Antonio, to Deere & Company. Pressure-modulated hydraulic control valve. 3,667,496, 6-6-72, Cl. 137-116.300.
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Schleyer, Paul von R., to Union Carbide Corporation. Hexacyclotetracdecanes. 3,673,268, 6-27-72, Cl. 260-666.0py.
Schlicht, Raymond C.; Eckert, George W.; and Von Allmen, Ronald W., to Texaco, Inc. Fuel composition. 3,704,107, 11-28-72, Cl. 44-58.000.
Schlichte, Max, to Siemens Aktiengesellschaft. Process and circuit arrangement for the transmission of message signals, in particular PCM message signals, from a transmission station to a receiving station. 3,686,442, 8-22-72, Cl. 179-15.0b.
Schlichte, Max, to Siemens Aktiengesellschaft. PCM time division multiplex process. 3,688,049, 8-29-72, Cl. 179-15.0aq.
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Schlickeiser, Klaus, to Buhmann, Walter, Dipl. Ing., Elektro-Apparate-Bau GmbH. Text selection arrangement in automatic printout devices. 3,675,207, 7-4-72, Cl. 340-172.500.
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Schlieben, Ernest William, to RCA Corporation. Bookbinding. 3,685,857, 8-22-72, Cl. 281-26.000.
Schliebs, Reinhard; Schlor, Hanshelmut; and Homeyer, Bernhard, to Farbenfabriken Bayer Aktiengesellschaft. 1-Alkoxy(-alkenyloxy,-phenoxy)-1-thiono-3-chloro(3-alkyl) phospholines. 3,644,598, 2-22-72, Cl. 260-936.
Schliebs, Reinhard, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of dimethylthiophosphite or of organothiophosphonous acid O-monomethyl ester. 3,655,835, 4-11-72, Cl. 260-983.
Schliebs, Reinhard; Brandt, Hans-Walther; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; and Schnuchel, Gunther, to Farbenfabriken Bayer Aktiengesellschaft and Erdolchemie Gesellschaft mit beschrankter Haftung. Process for recovering cyclopentene, isorene and a diolefin stream from the C_5-cut obtained by petroleum cracking. 3,686,349, 8-22-72, Cl. 260-681.500.
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Schliemann, Louis F.; and Borgos, Jerome E. Foldable etagere. 3,648,627, 3-14-72, Cl. 108-111.
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Schlienger, Max P. Arc furnace electrode wheel mounting system. 3,651,238, 3-21-72, Cl. 13-9.
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Schmid, Leopold F. Ball joint, especially for the steering linkage of motor vehicles. 3,650,552, 3-21-72, Cl. 287-90.

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Schmidl, Ernst: *See—*
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Schmidlin, Albertus E., to TPI & Company. Control device for a reciprocating machine. 3,696,709, 10-10-72, Cl. 91-3.000.

Schmidlin, Fred W., to Xerox Corporation. Lift off electrode. 3,684,364, 8-15-72, Cl. 355-3.000.

Schmidlin, Hans. Window unit. 3,641,705, 2-15-72, Cl. 49-256.

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Schmidt, Alfred; Weinrotter, Ferdinand; and Muller, Walter, to Osterreichische Stickstoffwerke Aktiengesellschaft. Process for the production of a cyanic acid-ammonia gas mixture. 3,652,209, 3-28-72, Cl. 23-151.

Schmidt, Alfred, to Osterreichische Stickstoffwerke Aktiengesellschaft. Process for the preparation of pure aluminium fluoride. 3,661,511, 5-9-72, Cl. 23-88.

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Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs. Tissot et fils S.A. Drive mechanism for an indicator of the day of the month in a timepiece. 3,667,211, 6-6-72, Cl. 58-58.000.
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Schneider, Jean-Claude, to Fabrique d'Horlogerie Chis. Tissot et Fils S.A. Calendar watch movement. 3,693,345, 9-26-72, Cl. 58-58.000.
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Schneider, Joachim; Groschel, Herbert; Kubitzek, Harry; Nawrath, Gunter; and Rudolph, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Shaped articles made from polycaprolactams containing an organosilicon compound as an anti-electrostatic agent. 3,637,60, 1-25-72, Cl. 260-78.
Schneider, Joachim; Hermann, Karl-Heinz; Rudolph, Hans; and Nawrath, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Modified high molecular weight polyamides with high affinity or acid dyes. 3,660,522, 5-2-72, Cl. 260-782.
Schneider, Joh., Friedr: *See—*
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Schneider, Johannes: *See—*
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Schneider, Johannes; and Pungs, Wolfgang. Thermoplastic moldable masses of polyamide blends. 3,642,941, 2-15-72, Cl. 260-857.
Schneider, Johannes; and Pungs, Wolfgang, to Dynamit Nobel Aktiengesellschaft. Polyamide containers of 2,2,4 and/or 2,4,4 trimethyl hexamethylene diamine. 3,646,156, 2-29-72, Cl. 260-857.
Schneider, John A.; and Moran, John B., to Dow Chemical Company, The. Extreme pressure lubricants containing dialkyl 1,2,2,2-tetrahaloethyl phosphates. 3,640,857, 2-8-72, Cl. 252-49.9.
Schneider, John M.; and Lennon, John, to Xerox Corporation. Electrostatographic charging apparatus. 3,688,107, 8-29-72, Cl. 250-49.500.
Schneider, Jos., & Co.: *See—*
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Schneider, Jos., & Co. Optische Werke: *See—*
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Hess, Karl-Gunter; Himmelsbach, Paul; and Thomas, Otto, 3,682,072.
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Schneider, Jos., & Co. Optische Werke Kreuznach: *See—*
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Schneider, Joseph C., to Parker Machine Co., Inc. Foldable invalid walker convertible from fixed to swingable walker. 3,690,652, 9-12-72, Cl. 272-70.300.
Schneider, Joseph R.; and Schneider, Bruce A., to Laser Products & Development Corporation, Inc. Tuning device. 3,691,894, 9-19-72, Cl. 84-454.000.
Schneider, Jurg A.: *See—*
Culik, Rudolf; and Schneider, Jurg A., 3,636,219.
Culik, Rudolf; and Schneider, Jurg A., 3,679,798.
Schneider, Jury Gdalievich. Process for forming on surface of articles relief featuring projections and recesses of uniform height shape and disposition smoothly changing from one into the other, and devices for accomplishing same. 3,688,537, 9-5-72, Cl. 2-74.000.
Schneider, Karl: *See—*
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Schneider, Karl, to Scheidemandel-Motar-Werke AG. Composition causing combustion when contacted with water. 3,662,801, 5-16-72, Cl. 149-5.000.
Schneider, Karl A.: *See—*
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Schneider, Karl-Heinz: *See—*
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Schneider, Karl-Heinz, to Bosch, Robert, G.m.b.H. Method of making journal constructions. 3,644,005, 2-22-72, Cl. 308-37.
Schneider, Kenneth C.: *See—*
Tuckey, Charles H.; and Schneider, Kenneth C., 3,633,557.
Schneider, Kenneth C.; and Tuckey, Charles H., to Walbro Corporation. Carburetor construction to eliminate fuel accumulation at the reed valve. 3,690,304, 9-12-72, Cl. 123-73.00v.
Schneider, Kenneth O.: *See—*
Barecki, Chester J.; and Schneider, Kenneth O., 3,697,130.
Schneider, Klaus: *See—*
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Schneider, Wolfgang; and Schneider, Klaus, 3,669,597.
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Schneider, Klaus, to Bosch, Robert, G.m.b.H. Electromagnetic detent means for sliding spools of directional control valves. 3,667,723, 6-6-72, Cl. 251-68.000.
Schneider, Kurt: *See—*
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Schneider, Marion F.; and Breen, Edward L., to United States of America, Air Force. Dosimetry system for measuring instantaneous dose and linear energy transfer spectrum of space radiations. 3,678,275, 7-18-72, Cl. 250-83.60r.
Schneider, Marvin. Insulating pipe accouterments and the like. 3,684,609, 8-15-72, Cl. 156-221.000.
Schneider, Marvin, to Rapid-American Corporation. Club bag. 3,685,620, 8-22-72, Cl. 190-48.000.
Schneider Metal Manufacturing Co.: *See—*
Esser, Harold H.; and Olson, Ralph B., 3,651,656.
Schneider, Othmar; Fergg, Berthold; and Zahn, Wolfgang, to Agfa-Gevaert Aktiengesellschaft. Duplicating apparatus. 3,632,206, 1-4-72, Cl. 355-68.
Schneider, Paul Adrian, to A/S Ardal og Sunndal Verk. Crushing machine for coarse crushing of brittle materials. 3,670,971, 6-20-72, Cl. 241-69.000.
Schneider, Peter R.: *See—*
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Schneider, Raymond C.; and Mayer, Robert W., to Twin Disc Incorporated. Torque converter power transmission having regulating valve means. 3,680,398, 8-1-72, Cl. 74-733.000.
Schneider, Raymond T.; Taylor, James A.; and Willis, William D., to Willman-Lord, Inc. Process for removal of SO_2 from gas streams. 3,653,812, 4-4-72, Cl. 23-2.
Schneider, Richard E.: *See—*
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Schneider, Robert A., to Spin Physics, Inc. Transducer head with laminated pole tips for wideband transducer system. 3,663,765, 5-16-72, Cl. 179-100.2.
Schneider, Rudi; Schneider, Lisa; and Bauer, Werner. Dressing tray for babies. 3,656,193, 4-18-72, Cl. 5-92.
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Schneider, Rupert, to Sandoz Ltd.; a/k/a Sandoz AG. Herbicidal 2,4-di(substituted) amino-6-chloro pyrimidines. 3,705,159, 12-5-72, Cl. 260-256.40n.
Schneider, Stephen G.; Hultgren, Frank A.; and Barclay, William F., to Republic Steel Corporation. Production of ferritic stainless steel with improved drawing properties. 3,650,848, 3-21-72, Cl. 148-12.
Schneider, Theodor; Schubert, Karl-Friedrich; and Jakob, Heinz. Motor vehicle windshield wiper having a parking position outside the wiping area. 3,694,723, 9-26-72, Cl. 318-443.000.
Schneider, Walter: *See—*
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Schneider, Werner, to Dango & Dienenthal Kommanditgesellschaft. Device for driving a sampling or sensing lance for a shaft furnace. 3,632,100, 1-4-72, Cl. 266-42.
Schneider, Werner, to Dango & Dienenthal Kommanditgesellschaft and Salzgitter Huttenwerk Aktiengesellschaft. Device for removing gas and furnace charge probes from shaft furnaces and/or for taking temperature and gas pressure measurements in the interior sace of the furnace. 3,643,508, 2-22-72, Cl. 73-344.
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Schneider, William P.: *See—*
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Schneider, Willy. Repair piece for automobile bodies. 3,695,796, 10-3-72, Cl. 425-12.000.
Schneider, Wolfgang: *See—*
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Schneider, Wolfgang; and Schneider, Klaus. Apparatus for filling and compacting a mix onto a form of making precast elements. 3,655,318, 4-11-72, Cl. 425-218.
Schneider, Wolfgang; and Schneider, Klaus. Plant for manufacturing small structural elements. 3,659,979, 5-2-72, Cl. 425-62.
Schneider, Wolfgang; and Schneider, Klaus. Apparatus for the production of small concrete elements. 3,669,597, 6-13-72, Cl. 425-216.
Schneider, Wolfgang, to Goodrich, B. F., Company, The. 5-Vinylbicyclo (2.2.1) hept-1-2-ene isomerization. 3,683,038, 8-8-72, Cl. 260-666.0py.
Schneider, Wolfgang, to Goodrich, B. F., Company, The. Process for the isomerization of 5-vinylbicyclo (2.2.1) hept-2-enes. 3,683,039, 8-8-72, Cl. 260-666.0ly.
Schneider, Wolfgang, to Goodrich, B. F., Company, The. Preparation of 5-ethylidenebicyclo(2.2.1) hept-2-enes. 3,696,157, 10-3-72, Cl. 260-666.0py.
Schneider-Arnoldi, Alfred; Kampmann, Friedrich-Wilhelm; Thiel, Hans-Dieter; Kandler, Joachim; and Gleisberg, Dietrich, to Knapsack Aktiengesellschaft. Sand-lime bricks and process for making them. 3,676,165, 7-11-72, Cl. 106-117.000.
Schneider-Simpson, Inc.: *See—*
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Schnell, Gerhard: *See—*
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Schnell, Hermann: *See—*
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Schneller, Stephen G., to Peacock Brothers Limited. Equipment for high-line transfer. 3,642,152, 2-15-72, Cl. 214-13.
Schnellman, Oscar; and Stier, Henry Willy, to Carmet Company. Automatic profile grinding machine with an indexing mechanism. 3,696,562, 10-10-72, Cl. 51-165.880.
Schnellmann, Oscar; and Stier, Henry Willy, to Carmet Company. Automatic profile grinding machine with an indexing mechanism. 3,688,451, 9-5-72, Cl. 51-216.000.
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Schnepel, Lawrence S. Torque release adapter for power-operated tools. 3,667,250, 6-6-72, Cl. 64-29.000.
Schnepel, Lawrence S., to X-4 Corporation, The. Torque limiting adapter. 3,702,546, 11-14-72, Cl. 64-29.000.
Schnepf, Raymond D. Sack closing and sewing machine. 3,691,968, 9-19-72, Cl. 112-11.000.
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Schobinger, Ulrich; Christoffel, Cla; and Berner, Kurt, to Blattmann & Co. Composition and method for surface sizing paper and the like. 3,637,407, 1-25-72, Cl. 106-213.
Schobinger, Ulrich; Christoffel, Cla; and Berner, Kurt, to Blattmann & Co. Highly water soluble dextrin phosphate. 3,642,774, 2-15-72, Cl. 260-233.5.
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Schoeller, Alexander. Short bottle crates made of plastic. 3,701,449, 10-31-72, Cl. 220-21.000.
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Schoeman, Musgrave; and Warmington, Herbert Halliday, to Straw Engines (Proprietary) Limited. Power units and parts thereof. 3,666,063, 5-30-72, Cl. 192-21.000.
Schoen, Alan H., to United States of America, National Aeronautics and Space Administration. Honeycomb core structures of minimal surface tubule sections. 3,663,346, 5-16-72, Cl. 161-68.000.
Schoen, Alan H., to United States of America, National Aeronautics and Space Administration. Honeycomb panels formed of minimal surface periodic tubule layers. 3,663,347, 5-16-72, Cl. 161-68.000.
Schoen, George J.; and McKee, Lewis W., to Barden Corporation, The. Stable ball cage. 3,639,017, 2-1-72, Cl. 308-201.
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Schoenung, Alois F., to Rapid Mountain and Finishing Company. Rocking display device. 3,707,050, 12-26-72, Cl. 40-30.000.

Schoenwald, Alexander. Electric heated soldering tool. 3,654,427, 4-4-72, Cl. 219-241.

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Schoenwitz, Frank H. W., to Honeywell Inc. System for displaying values of conditions reported at a central station from various remote stations of a building air condition system. 3,641,530, 2-8-72, Cl. 340-183.

Schoenwitz, Frank H. W., to Honeywell Inc. System for monitoring abnormal system operation in a system having a central station and a plurality of remote stations. 3,697,953, 10-10-72, Cl. 340-163.00r.

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Schreurs, Willy P., to Sylvania Electric Products, Inc. Polyspectral fluorescent lamp. 3,676,728, 7-11-72, Cl. 313-109.000.
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Schrewe, Hans; Diederich, Gerd; Wahls, Peter; and Pfenning, Emil, to Mannesmann Aktiengesellschaft. Process of continuous casting of steel. 3,642,052, 2-15-72, Cl. 164-55.

Schrewe, Hans, to Mannesmann Aktiengesellschaft. Pouring apparatus with submerged deflector plates for continuous casting. 3,669,181, 6-13-72, Cl. 164-281.000.

Schrewelius, Nils Gustav, to Aktiebolaget Kanthal. Electrical resistance element. 3,668,599, 6-6-72, Cl. 338-289.

Schrewelius, Nils Gustav, to Aktiebolaget Kanthal. Furnace for the production of glass fibers. 3,676,093, 7-11-72, Cl. 65-1.000.

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Schreyer, Franz: *See—*
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Schreyer, Gerd; and Weigert, Wolfgang, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of lower aliphatic mercaptans. 3,697,602, 10-10-72, Cl. 260-609.00r.

Schreyer, Gerd; Weiberg, Otto; and Weigert, Wolfgang, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of hydrogen peroxide. 3,699,217, 10-17-72, Cl. 423-589.00n.

Schreyer, Gerd; Troger, Jurgen; Weigert, Wolfgang; and Weiberg, Otto, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the recovery of non-aqueous hydrogen peroxide. 3,707,444, 12-26-72, Cl. 203-51.000.

Schreyer, James M.: *See—*
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Schreyer, Ralph C., to Du Pont de Nemours, E. I., and Company. 1,4-Dimethylol-1,4-dialkyl cyclohexane synthesis. 3,646,223, 2-29-72, Cl. 260-617.

Schriber, Louis, to Harris-Intertype Corporation. Method and apparatus for collating paper webs. 3,682,468, 8-8-72, Cl. 270-52.000.

Schrier, Peter G.: *See—*
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Schriewer, Ernst-Richard, to Marker, Hannes. Safety toe iron for ski bindings. 3,635,486, 1-18-72, Cl. 280-11.35.

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Schrijvers, Jozef: *See—*
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Schrimper, Vernon L.; and Fairchild, Louis F., to Iowa Manufacturing Company of Cedar Rapids. Dual paver. 3,636,832, 1-25-72, Cl. 94-46.

Schrock, Larry R., to Ford Motor Company. Variable ratio lever mechanism. 3,646,830, 3-7-72, Cl. 74-516.

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Schroder, Herbert. Equipment for manufacturing bakery products. 3,652,117, 3-28-72, Cl. 294-87.

Schroder, Hermann; and Biedron, Ralf, to Colsman & Kirschner. Combined dirt scraper and brush for shoes. 3,659,303, 5-2-72, Cl. 15-112.

Schroder, Johann; and Van Witteveen, Roland Anton Johan Otto, to U.S. Philips Corporation. Hot gas engine. 3,651,637, 3-28-72, Cl. 60-24.

Schroder, Johann; Van Beukering, Henricus Cornelis Johannes; and Van Witteveen, Roland Anton Johan Otto, to U.S. Philips Corporation. Heating system. 3,651,797, 3-28-72, Cl. 126-263.

Schroder, Johann, to U.S. Philips Corporation. Heater system. 3,662,739, 5-16-72, Cl. 126-263.

Schroder, Johann, to U.S. Philips Corporation. Heater system. 3,662,740, 5-16-72, Cl. 126-263.

Schroder, Johann, to U.S. Philips Corporation. Lithium containing fuel suitable for producing calorific energy by reaction with SF_6. 3,697,239, 10-10-72, Cl. 44-3.00r.

Schroder, Jurgen; Wichmann, Onno; and Zuchner, Werner, to U.S. Philips Corporation. Sensing device. 3,648,024, 3-7-72, Cl. 235-61.11.

Schroder, Jurgen; and Nussbaum, Hans Georg, to U.S. Philips Corporation. Arrangement for proportioning actively or passively light-radiating surfaces. 3,648,272, 3-7-72, Cl. 340-324.

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Schroeder, Arnold: *See—*
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Schroeder, Arthur C. Golf-practicing device. 3,643,961, 2-22-72, Cl. 273-197.

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Schroeder, Charles F., to Owens-Corning Fiberglas Corporation. Pneumatic tire carcass construction. 3,675,702, 7-11-72, Cl. 152-354.000.

Schroeder, Charles F., to Owens-Corning Fiberglas Corporation. Reinforcement of rubber. 3,707,120, 12-26-72, Cl. 161-90.000.

Schroeder, Duane Arthur; Weiss, Alvin Dennis; and Giltner, Benedict Clare, to Methode Development Company. Electrical resistant material. 3,673,117, 6-27-72, Cl. 252-512.000.

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Schroeder, George F., to Northrop Carolina, Inc. Textile thread winder with tension compensating device. 3,690,576, 9-12-72, Cl. 242-18.0dd.

Schroeder, George F., to Northrop Carolina, Inc. Textile thread winder with transfer tail forming device. 3,690,577, 9-12-72, Cl. 242-18.0pw.

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Schroeder, Hansjuergen A.; and Semenuk, Nick S., to Olin Mathieson Chemical Corporation. Bis (chlorosulfenyl) and bis (chlorosulfonyl)-carboranes. 3,634,505, 1-11-72, Cl. 260-543.

Schroeder, Harry C.: *See—*
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Schroeder, James W.; Naso, Anthony C.; and Eschenauer, Paul R., to Republic Steel Corporation. Purification of naphthalene. 3,649,708, 3-14-72, Cl. 260-674.

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Schroeder, Kenneth H.; and Kelly, George J., Jr., to Allied Chemical Corporation. Chemical strippers and method of using. 3,676,219, 7-11-72, Cl. 134-3.000.

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Schroeder, Michael J., to Veskol, Inc. Cooling apparatus. 3,662,561, 5-16-72, Cl. 62-119.000.

Schroeder, Paul H. Device for closing and securing carton flaps. 3,690,222, 9-12-72, Cl. 93-52.000.

Schroeder, Paul Herman, to FMC Corporation. Novel method of controlling nematodes. 3,657,426, 4-18-72, Cl. 424-200.

Schroeder, Paul Herman, to FMC Corporation. Novel method of controlling nematodes. 3,689,647, 9-5-72, Cl. 424-200.000.

Schroeder, Paul Robert, to Bell Telephone Laboratories, Incorporated. Access circuit arrangement for equalized loading in integrated circuit arrays. 3,638,202, 1-25-72, Cl. 340-173.

Schroeder, Peter, to Weber, Paul, AG. Apparatus for keeping a state of tension constant on a material web which runs between successive pairs of driving rollers. 3,667,664, 6-6-72, Cl. 226-30.

Schroeder, Peter, to Weber, Paul, AG. Method for continuous wet treatment of a textile web. 3,690,814, 9-12-72, Cl. 8-151.000.

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Schroeder, Theodore C., to Westinghouse Air Brake Company. Lightweight electromagnetic relay. 3,668,578, 6-6-72, Cl. 335-202.000.

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Schroeter, Siegfried H., to General Electric Company. Alkoxyoxetanes. 3,673,216, 6-27-72, Cl. 260-333.000.

Schroeter, Siegfried H.; and Orlando, Charles M. Dihydrocarbon-oxyoxethanes. 3,696,123, 10-3-72, Cl. 260-333.000.

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Schroner, Wera, to Flotti Puppenkleiderspiele Gesellschaft mit beschrankter Haftung. Blank and dress made therefrom. 3,705,427, 12-12-72, Cl. 2-74.000.

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Schrotz, Kurt; and Becker, Werner. Labeling devices. 3,674,609, 7-4-72, Cl. 156-577.000.

Schruff, Horst; Lehmann, Helmut; Siefen, Jakob; Mathner, Hermann; Adams, Willi; and Weiss, Gunter, to Agfa-Gevaert Aktiengesellschaft. Apparatus for closing a film cassette made of synthetic plastics. 3,700,531, 10-24-72, Cl. 156-575.000.

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Schubart, Rudiger; Eholzer, Ulrich; Kempermann, Theo; and Roos, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. S,S'-Carbonyl-bis-dialkyl dithiophosphate containing vulcanization accelerator. 3,697,433, 10-10-72, Cl. 252-182.000.

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Schubert, Donald R. Inertial recoil reducer for magazine firearms. 3,650,060, 3-21-72, Cl. 42-1.

Schubert, Dudley J.; and Howe, Donald R. Collapsible bulk handling bin. 3,705,663, 12-12-72, Cl. 217-12.00r.

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Schuberth, Christian; and Steigerwald, Wolf-Erhard, to PREH Elektro-Feinmechanische Werke, Jakob Preh Nachf. Layer voltage divider with additional impedances. 3,668,600, 6-6-72, Cl. 338-320.000.

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Schueler, George Berthold Edward, to Redland Bricks Limited. Process for the production of sheets hardenable to form molded articles. 3,670,063, 6-13-72, Cl. 264-115.000.

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Schuenemann, Claus H.; and Spruth, Wilhelm G., to International Business Machines Corporation. Electronic data processing system with plural independent control units. 3,681,761, 8-1-72, Cl. 340-172.500.

Schuenke, Vernon W., 1/3 to Heinrich, Casper W. and 1/3 to Kornacki, Robert. Timing switching mechanism with adjustable program sleeve for drum actuator. 3,632,912, 1-4-72, Cl. 200-38.

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Schuh, Theodore R., Jr., to Nalco Chemical Company. Latex thickener. 3,660,339, 5-2-72, Cl. 260-29.70d.
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Schuierer, Manfred, to Bruckner-Apparatebau Michelstadt GmbH. Drum machine. 3,673,825, 7-4-72, Cl. 68-20.000.
Schuierer, Manfred, to Bruckner-Apparatebau Michelstadt GmbH. Apparatus and methods for applying liquids to fabrics. 3,694,142, 9-26-72, Cl. 8-151.000.
Schuierer, Manfred, to Bruckner-Apparatebau Michelstadt GmbH. Device for treating long flat textile materials. 3,696,643, 10-10-72, Cl. 68-5.00b.
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Schuil, Roelof Egbert, to U.S. Philips Corporation. Method of manufacturing a luminescent oxysulphide. 3,706,666, 12-19-72, Cl. 252-301.40s.
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Schwartz, Frederic W., to Cable Electric Products, Inc. Combination light and switch. 3,706,004, 12-12-72, Cl. 315-71.000.
Schwartz, Frederich William, Jr., to Jamesbury Corporation. Pressure relief valve construction for railway tank cars and the like. 3,675,679, 7-11-72, Cl. 137-587.000.
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Schwartz, George C., to Schwartz Chemical Company, Incorporated. Bacteria growth inhibiting textiles and dry cleaning and disinfecting compositions and processes. 3,697,220, 10-10-72, Cl. 8-142.000.
Schwartz, George F., to United States Steel Corporation. Arrangement for mounting rolls in a guide roll rack. 3,631,916, 1-4-72, Cl. 164-282.
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Schwartz, Herbert; and Skaptason, Joseph B. Tetrahydrophthalanils. 3,654,302, 4-4-72, Cl. 260-326.
Schwartz, Hermann, to Peyer, Siegfried. Yarn defect detector apparatus for textile machinery. 3,673,591, 6-27-72, Cl. 340-259.000.
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Schwartz, Larry L. Club head velocity meter. 3,685,909, 8-22-72, Cl. 356-28.000.
Schwartz, Lazar M. Bacteriological identification system. 3,692,488, 9-19-72, Cl. 23-253.00r.
Schwartz, Leonard; Purcell, Harold K.; and Wieselman, Jerome J., to RLR Chemical Company, Inc. Wrinkle removing product and process. 3,674,688, 7-4-72, Cl. 252-8.800.
Schwartz, Leroy L. Disposable specimen collection and analysis bag. 3,660,033, 5-2-72, Cl. 23-230.
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Schwartz, Morris; Castedello, William; and Kaprelian, Edward K., to Kalart Company Inc., The. Strip film projector. 3,638,875, 2-1-72, Cl. 242-71.2.
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Schwartz, Paul. Metal studding wall structures. 3,653,172, 4-4-72, Cl. 52-669.
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Schwartz, Ralph E., to Redeco, Inc. Method for extending the useful storage period of biological substances such as blood. 3,677,022, 7-18-72, Cl. 62-56.000.
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Schwartz, Robert; Manolache, Constantin; Tannenbaum, Marcel; Vasile, Gheorghe; Rey, Vasile; Sima, Constantin; and Cambureanu, Aurel, to Institutul de Cercetari in Censtructii si Economia Constructilor. Device for stressing tensionable armatures. 3,692,277,9-19-72, Cl. 254-29.00a.
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Schwartz, Robert J., to Schlumberger Technology Corporation. Pulse resolution system. 3,673,559, 6-27-72, Cl. 340-18.000.
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Schwartz, William H., to Lester Engineering Company. Injection molding machine. 3,650,654, 3-21-72, Cl. 435-243.
Schwartz, William H., Jr.; and Maxwell, Billy D., to Enviromental Corporation. Incinerator type environmental control system. 3,665,871, 5-30-72, Cl. 110-8.
Schwartzbach, Morton. Hot stamping machines for roll marking cylindrical items. 3,640,213, 2-8-72, Cl. 101-8.
Schwartzbart, Harry; and Douty, Robert Albert, to Rockwell Manufacturing Company. Butterfly type valve with stress seal. 3,684,239, 8-15-72, Cl. 251-173.000.
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Schwartzman, Gilbert. Metering and discharge device. 3,658,216, 4-25-72, Cl. 222-453.
Schwartzman, Gilbert. Fluid applicator having wine-cup shaped valve assembly. 3,661,468, 5-9-72, Cl. 401-206.
Schwartzman, Gilbert; and Glenn, Robert. Method of correcting typewritten impressions. 3,680,968, 8-1-72, Cl. 401-260.000.
Schwartzman, Gilbert. Dispenser with dip tube. 3,705,668, 12-12-72, Cl. 222-207.000.
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Schwarz, Alfred V. Plastic sheets for concrete reinforcing mesh. 3,678,643, 7-25-72, Cl. 52-686.000.
Schwarz, Bernhard. Head and neck rest. 3,642,321, 2-15-72, Cl. 297-410.
Schwarz, Bernhard. Head and neck rest. 3,652,128, 3-28-72, Cl. 297-408.
Schwarz, Charles A., to Sooner Door Hardware Manufacturing Company. Automatic door closer. 3,699,608, 10-24-72, Cl. 16-79.000.
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Schwarz, Eckhard C. A., to Kimberly-Clark Corporation. Hydrophilic polyurethane. 3,661,860, 5-9-72, Cl. 260-77.5.
Schwarz, Eckhard C. A., to Kimberly-Clark Corporation. High strength polystyrene. 3,661,866, 5-9-72, Cl. 260-78.4.
Schwarz, Eckhard C. A., to Kimberly-Clark Corporation. Method for producing paper-like polymer film and the product. 3,694,399, 9-26-72, Cl. 260-41.00b.
Schwarz, Eckhard C. A., to Kimberly-Clark Corporation. Low density composite polymer film. 3,697,367, 10-10-72, Cl. 161-168.000.
Schwarz, Ernst; and Scherz, Peter, to SEMPERIT Osterreichisch-Amerikanische Gummiwerke Aktiengesellschaft. Device for the injection molding of expandable plastic masses. 3,659,996, 5-2-72, Cl. 425-245.
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Schwarz, Francisce, to United States of America, National Aeronautics and Space Administration. Controllable, load insensitive power converters. 3,663,940, 5-16-72, Cl. 321-2.
Schwarz, Frank, to Barnes Engineering Company. Thermal imaging system with thermal image superimposed on a target scene. 3,641,348, 2-8-72, Cl. 250-83.3.
Schwarz, Frank, to Barnes Engineering Company. High-sensitivity, long-time-constant thermistor bolometer. 3,684,996, 8-15-72, Cl. 338-18.000.
Schwarz, Gerhard. Photographic camera. 3,672,284, 6-27-72, Cl. 95-42.000.
Schwarz, Gerhard, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Photographic camera with focal plane shutter and interchangeable objective shutter. 3,675,561, 7-11-72, Cl. 95-53.00e.
Schwarz, Gerhard, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Photographic camera with interchangeable objective shutter. 3,703,136, 11-21-72, Cl. 95-42.000.
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Schwarz, Hans G., to United States of America, Navy, mesne. Noise suppression arrangement for communication receivers. 3,671,867, 6-20-72, Cl. 325-410.000.
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Schwarz, Karlhans, to Bodenseewerk Geratetechnik GmbH. Directional and pitch trim indicator for automatic pilots. 3,676,843, 7-11-72, Cl. 340-27.00r.
Schwarz, Leonard H., to Dunham-Bush, Inc. Cleanable tube within a tube heat exchanger and method of forming modular readers therefor. 3,705,622, 12-12-72, Cl. 165-143.000.
Schwarz, Lothar. Syringe. 3,672,368, 6-27-72, Cl. 128-218.00n.
Schwarz, Maurice L., to EIS Automotive Corporation, The. Method and apparatus of assembling and disassembling hydraulic disc brake calipers. 3,654,689, 4-11-72, Cl. 29-427.
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Schwarz, Rudolf, to Staubli AG. Heddle frame lift device. 3,703,195, 11-21-72, Cl. 139-71.000.
Schwarz, Steven E., to Federal-Mogul Corporation. Flexible pneumatic duct connectors assembled with internal seals. 3,680,874, 8-1-72, Cl. 277-153.000.

Schwarz, Walter; and Steinmair, Karl, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Rope or chain rupture safety device. 3,645,519, 2-29-72, Cl. 266-34.

Schwarz, Walter K.; and Schlink, David J., to Peoria Journal Star, Inc., The. Calculating device. 3,680,775, 8-1-72, Cl. 235-71.00a.

Schwarz, Werner, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Sonar apparatus, particularly for deep-sea fishing. 3,696,328, 10-3-72, Cl. 340-3.00r.

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Schwarzkopf, Anton, to Schwarzkopf, Anton, Firma. Merry-go-round. 3,698,710, 10-17-72, Cl. 272-7.000.

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Schwarzkopf, August; and Mundus, Friedhelm, to Windmoller & Holscher. Stacking and withdrawal apparatus for bag-making machine. 3,631,771, 1-4-72, Cl. 93-93.

Schwarzkopf, August; and Achelpohl, Fritz, to Windmoller & Holscher. Welding apparatus. 3,644,163, 2-22-72, Cl. 156-583.

Schwarzkopf, August, to Windmoller & Holscher. Apparatus for stacking flattened bags of thermoplastic material which are made in a bag-making machine. 3,672,265, 6-27-72, Cl. 93-93.0dp.

Schwarzkopf, August, to Windmoller & Holscher. Handle-type carrying bag made of plastics material sheeting. 3,693,867, 9-26-72, Cl. 229-54.00r.

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Schweiger, Richard G. Nitrite, nitrate and sulfate esters of polyhydroxy polymers. 3,702,843, 11-14-72, Cl. 260-91.3va.

Schweigert, Luitpold; and Rossler, Kurt. Machine for granulating bulk rubbish or bulky refuse of any kind. 3,664,592, 5-23-72, Cl. 241-73.

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Schweitzer, Edmund O., Jr., to Schweitzer, E. O., Manufacturing Co., Inc. Automatically resettable fault indicator. 3,676,740, 7-11-72, Cl. 317-22.000.

Schweitzer, Edmund O., Jr., to Schweitzer, E. O., Manufacturing Co., Inc. Current measuring and automatically resettable fault indicating means. 3,702,966, 11-14-72, Cl. 324-133.000.

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Scott, Henry H., to Dow Chemical Company, The. Crop culture with 4H-1,2,4-triazoles. 3,697,244, 10-10-72, Cl. 71-1.000.
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Scott, Herbert W., to Gilbey Equipment Ltd. Wire forming machine. 3,664,384, 5-23-72, Cl. 140-92.940.
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Scott, Kelley E., Jr.; Kemper, Daryl M.; Grove, Lloyd E.; and Kiess, Ronald J., to CTS Corporation. Method of making piezoelectric crystal units. 3,656,217, 4-18-72, Cl. 29-25.35.
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Scribner, Richard M., to Du Pont de Nemours, E. I., and Company. C-21 Lower alkylsulfinyl esters of certain 6α-fluoro-21-hydroxycorticosteroids. 3,681,338, 8-1-72, Cl. 260-239.55d.
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Senter, Louis; and Johnson, Robert E., to Whittaker Corporation. Safety housing. 3,696,689, 10-10-72, Cl. 74-609.000.
Sentralinstitutt for Industriell Forskning: *See—*
Bergem, Normann; Blindheim, Ulf; Onsager, Olav-Torgeir; and Wang, Hagbarth, 3,652,687.
Senyard, Corley P.: *See—*
Winkler, John C.; and Senyard, Corley P., 3,676,412.
Senzaki, Takaya, to Honda Giken Kogyo Kabushiki Kaisha. Speed control apparatus for motorcar engine. 3,667,020, 5-30-72, Cl. 318-297.000.
Seo, Kiyokazu; and Hayashi, Yoshihiro, to Kabushiki Kaisha Tokai Rika Denki Seisskusho. Device for detecting and warning the unused state of a vehicle seat belt. 3,693,147, 9-19-72, Cl. 340-52.00e.
Separo Brno, inzenyrska Kancelar: *See—*
Rozkydalek, Jiri, 3,687,298.
Sepco: *See—*
Estis, Lonnie J., 3,687,598.
Sephton, Hugo H. Vortex flow process and apparatus for enhancing interfacial surface and heat and mass transfer. 3,648,754, 3-14-72, Cl. 159-13.
Seppala, Harold J.; and Benz, Gerhard, to Minnesota Mining and Manufacturing Company. Modified polyester film for punched tapes. 3,640,944, 2-8-72, Cl. 260-40.
Sepper, Werner, to Life Technology, Inc. Vehicle steering reversal rate alarm system. 3,654,599, 4-4-72, Cl. 340-52.
Seppey, Robert E., to Bendix Corporation, The. Method and apparatus for hardness testing. 3,690,157, 9-12-72, Cl. 73-78.000.
Seppo, Arnold Ivanovich, to Tallinskaya bolnitsa Tynismyae. Fixing apparatus for osteosynthesis of fractures of long tubular bones. 3,680,553, 8-1-72, Cl. 128-92.0bc.
Seprosy Societe Europeenne pour la Transformation de Produits de Synthese: *See—*
Rerolle, Marc; and Besson, Jean, 3,657,042.
Septier, Louis: *See—*
Percheron, Jean-Claude G.; and Septier, Louis, 3,661,566.
Sepulveda, Ralph R.: *See—*
Lamberti, Vincent; and Sepulveda, Ralph R., 3,644,203.
Sepulveda, Ralph Raymond; and Schoene, Kenneth Fred, to Lever Brothers Company. Liquid wash cycle softener. 3,660,286, 5-2-72, Cl. 252-8.8.
Sepulveda, William, Jr.: *See—*
Aasen, Torulf F.; Mogil, Bernard; and Sepulveda, William, Jr., 3,700,231.
Sequeira, Avilino, Jr.; Jolly, James P.; and Rea, William E., to Texaco Inc. Solvent refining of naphthenic lube oil with N-methyl-2-pyrrolidone. 3,661,772, 5-9-72, Cl. 208-289.
Sequeira, Robert M., to Shell Oil Company. Block copolymer compositions. 3,686,365, 8-22-72, Cl. 260-876.00b.
Sequerra, Richard I.; Smith, Sidney S.; Assenza, Fred J.; and Greenbaum, William H., to Unilux, Inc. Electronic flash lighting system. 3,691,365, 9-12-72, Cl. 240-1.300.
Serad, George Allibone, to Celanese Corporation. Melt extrusion of acrylonitrile polymers. 3,634,575, 1-11-72, Cl. 214-176.
Serafin, Marian; and Decubber, Maurice, to Societe Anonyme de Traverses en Beton Arme Systeme Vagneux. Railway sleeper and clip for securing a rail thereto. 3,658,247, 4-25-72, Cl. 238-349.000.
Serafini, Angelo: *See—*
Ciampa, Fred A.; Serafini, Angelo; and Mazzarella, Louis, 3,681,794.
Serafini, Anthony R.; Balkovic, Joseph A.; Waller, Richard E.; and Wunch, Karl A. Food compacting and dispensing machine. 3,636,855, 1-25-72, Cl. 99-234.
Seragnoli, Ariosoto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli E. Ariosto Seragnoli. Conveyor device having containers for storing and assembling overlying layered sets of side arranged cigarettes for packing up thereof as packets in cigartte packaging machines. 3,707,219, 12-26-72, Cl. 198-131.000.
Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli e Ariosto Seragnoli. Device for arranging articles supplied in bulk and individually and sequentially delivering them in alignment to wrapping up machines. 3,640,373, 2-8-72, Cl 198-30.
Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo e Ariosto Seragnoli. Stabilizing device for cigarette packaging machines. 3,642,112, 2-15-72, Cl. 198-24.
Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli e Ariosto Seragnoli. Machine for forming and wrapping up individual articles such as candies. 3,670,475, 6-20-72, Cl. 53-234.000.
Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli e Ariosto Seragnoli. Apparatus for feeding cigarette containers to the hopper loading mechanism of a cigarette packaging-conditioning machine. 3,679,079, 7-25-72, Cl. 214-302.00.
Serasi S.P.R.L.: *See—*
Lekane, Louis L., 3,645,383.
Serata, Shosei. Method of controlling long term safety of underground entry system by regulating formation of stress envelopes. 3,673,807, 7-4-72, Cl. 61-35.000.
Serck Industries Limited: *See—*
Walton, Peter, 3,664,235.
Walton, Peter, 3,677,297.
Williams, William, 3,698,686.
Serco Engineering Limited: *See—*
Brooks, David; and Reteff, Arthur L., 3,662,416.
Serdex-Societe d'Etudes de Recherches de Diffusion et d'Exploitation: *See—*
Queval, Pierre J.; and Falconnet, Bernard L. M., 3,654,310.
Serebrin, David, to Venture Enterprises, Inc. Wiglet attaching device. 3,669,129, 6-13-72, Cl. 132-46.
Seree De Roch: *See—*
Rouchaud, Jean; and Seree De Roch, 3,641,066.
Seregely, Daniel W., to Gillette Company, The. Ball point pen ink reservoir containing an improved ink follower. 3,656,857, 4-18-72, Cl. 401-142.
Sereno, John F.: *See—*
Lund, Richard B.; Vitrone, John; and Sereno, John F., 3,634,523.
Seres, Alex, to Incoe Corporation. Nozzle for an injection molding machine. 3,707,265, 12-26-72, Cl. 239-601.000.
Serfahs, Arthur S.; and Patzke, Robert C., to Addressograph-Multigraph Corporation. Copy sheet transport apparatus. 3,653,755, 4-4-72, Cl. 355-3.
Sergan, Anthony J., to Raymond Engineering, Inc. Mechanical torque wrench and a hydraulic readout therefor. 3,683,686, 8-15-72, Cl. 73-139.000.
Sergan, Micheline: *See—*
Eberle, Jeannine; Sergan, Micheline; Faurian, Claude; and Huguet, Gerard M., 3,639,476.
Sergant, Micheline Y.: *See—*
Eberle, Jeannine A.; Sergant, Micheline Y.; Fauran, Claude P.; and Huguet, Gerard J., 3,642,898.

Sergeev, Alexandr Georgievich: *See—*
Bashkutskaya, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Idelevich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhekhin, Vadimir Petrovich; Rubnikovich, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Usyaslav Iosifovich; Sharipova, Ravia Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.

Sergeev, Vitaly Andreevich: *See—*
Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karpovich; Ivanov, ViktorVasilievich; and Semenov, Mikhail Ivanovich, 3,659,969.

Sergeev, Vladimir Alexandrovich: *See—*
Korshak, Vasily Vladimirovich; Volpin, Mark Efimovich; Sergeev, Vladimir Alexandrovich; Shitikov, Valentin Kuzmich; and Kolomnikov, Igor Sergeevich, 3,705,131.

Sergeev, Vyacheslav Mikhailovich: *See—*
Tsenter, Boris Ioselevich; Sergeev, Vyacheslav Mikhailovich; and Kloss, Alexandr Ilich, 3,669,744.

Sergerie, Felix Antoine, to Alcan Research and Development Limited. Apparatus for continuous casting of metal ingots. 3,702,631, 11-14-72, Cl. 164-274.000.

Sergi Bros., Inc.: *See—*
Cappella, Michael, 3,667,633.

Sergo, John Robert, Jr., to Bell Telephone Laboratories, Incorporated. Analog to digital encoder. 3,668,691, 6-6-72, Cl. 340-347.0ad.

Serino, Enrico; Antoniu, Demetrio; Magi, Mario; Ganzina, Fabrizio; and Samueli, Fabio, to S.I.R. Laboratori Chimico-Biologici S.p.A. Derivatives of norbornene-2,3-dicarboxyimide and of norbornane-2,3-dicarboxyimide and method for preparing them. 3,651,059,3-21-72, Cl. 260-247.2.

Serkov, Anatoly Gavrilovich: *See—*
Berlin, Zalman Leivikovich; Bagrov, Oleg Nikolaevich; Maslovsky, Gennady Vasilievich; Serkov, Anatoly Gavrilovich; and Yakimovich, Viktor Yakovlevich, 3,673,988.

Serlin, Irving, to Monsanto Company. Treatment of glass cloth. 3,661,617, 5-9-72, Cl. 117-54.

Sermons, Gunar Yanovich: *See—*
Ioffe, Benyamin Alexandrovich; Lapidus, Mikhail Khaimovich; Preis, Vladimir Viktorovich; Kalnin, Robert Karlovich; Sermons, Gunar Yanovich; Dorofeev, Vyacheslav Semenovich; Zheigur, Bruno Domenikovich; Shevchenko, Alexandr Alexandrovich; Denisov, Gennady Aexandrovich; Mikelson, Artur Eduardovich; and Makhlin, Aron Judovich, 3,662,302.

Serniuk, George E.: *See—*
Powers, Kenneth W.; and Serniuk, George E., 3,660,160.

Serota, Samuel; and Rothman, Edward S., to United States of America, Agriculture. Process for the preparation of isopropenyl stearate. 3,666,781, 5-30-72, Cl. 260-410.90n.

Serowiecki, Gilbert J. Clamping unit and drain filter for washing machine drain lines. 3,638,799, 2-1-72, Cl. 210-462.

Serpas, Luis B.: *See—*
Ellers, Frederick S.; Small, Sam W.; and Serpas, Luis B., 3,674,062.

Serra, Guy: *See—*
Allen, William S.; and Serra, Guy, 3,642,587.

Serra, Juan Duarry. Collapsible inflatable boat. 3,694,836, 10-3-72, Cl. 9-2.00a.

Serra, Primo, to Olivetti, Ing. C., & C., S.p.A. Device for locking a tool on a spindle of a machine tool. 3,684,303, 8-15-72, Cl. 279-82.000.

Serracchioli, Francesco; and Bartocci, Antonio, to Olivetti, Ing., C., & C., S.p.A. Terminal apparatus for transmitting and receiving information. 3,648,251, 3-7-72, Cl. 340-172.5.

Serracchioli, Francesco; and Restivo, Francesco, to Olivetti, Ing. C., & C., S.p.A. Terminal apparatus. 3,678,179, 7-18-72, Cl. 178-4.100.

Serrano, Francisco M.: *See—*
Marion, Henri A.; Orieux, Pierre P.; and Serrano, Francisco M., 3,652,196.

Serrano, Francisco M., to Compagnie Francaise des Petroles. Mobile carrying system for depositing loads on the ocean bottom. 3,633,529, 1-11-72, Cl. 114-16.

Serrano, Francisco M., to Compagnie Francaise des Petroles Societe Anonyme. Fluid controlled pipe connector. 3,638,969, 2-1-72, Cl. 285-18.

Serrano, Francisco M., to Compagnie Francaise des Petroles. Devices and methods of connecting two inhabitable enclosures under water. 3,640,078, 2-8-72, Cl. 61-69.

Serrano, Francisco M., to Compagnie Francaise des Petroles. System for joining the lock chambers of a submarine and an underwater enclosure. 3,656,308, 4-18-72, Cl. 61-69.

Serrano, Leonardo V., to Rosemount Inc. Measurement apparatus having non-contact electrical coupling to components on a moving surface. 3,674,963, 7-4-72, Cl. 219-10.610.

Serrell, John L., to Parke, Davis & Company, mesne. Pharmacal package construction. 3,659,706, 5-2-72, Cl. 206-56.

Serrell, Peter V. H. Orbiting roller mechanical vibration generator. 3,659,467, 5-2-72, Cl. 74-87.

Serres, Carl, Jr.: *See—*
Morello, Edwin F.; and Serres, Carl, Jr., 3,652,498.

Serres, Carl, Jr.; and Bolton, Benjamin A., to Standard Oil Company. Use of phosphorus compounds as stripping agents for polyamide-imide films. 3,691,136, 9-12-72, Cl. 260-78.0tf.

Serrie, Shelagh; Mc Grady, Seamus; and Bloomer, Richard. Apparatus to match levels of reading ability to corresponding levels of reading matter. 3,680,229, 8-1-72, Cl. 35-35.00r.

Sersale, Riccardo; Franco, Enrico; Jello, Rosario; and Colella, Carmine, to Snam Progetti, S.p.A. Process for producing synthetic zeolite. 3,694,152, 9-26-72, Cl. 423-329.0on.

Sertna, Societe d'Etudes et de Recherches de Techniques Nouvelles Appliquees S.A.: *See—*
Meunier, Renee J. Louise; and Marmonier, Monique Adele, 3,664,506.

Servadio, Robert. Automatic safety seat clamp. 3,700,281, 10-24-72, Cl. 297-390.000.

Servais, Albert: *See—*
Plumat, Emile; Bohain, Pierre; and Servais, Albert, 3,683,848.

Servco Company, The: *See—*
Van Note, Charles O., 3,642,079.

Servi, Italo S. Article of manufacture and process of making it. 3,649,254, 3-14-72, Cl. 75-154.

Service (Engineers) Limited: *See—*
Bradshaw, Arthur; and Meadows, Frank William, 3,655,319.
Bradshaw, Arthur; and Podmore, Dennis, 3,685,940.

Service d'Exploitation Industrielle des Tabacs et des Ailumettes: *See—*
Anfossi, Henri, 3,690,434.

Service d'Exploitation Industrielle des Tabacs et des Allumettes: *See—*
Bonneric, Francis, 3,682,263.
Caron, Jean, 3,695,151.
Godet, Jean, 3,646,971.
Pietrucci, Andre; and Imbert, Pierre, 3,659,620.
Pietrucci, Andre, 3,661,159.
Poupin, Raymond, 3,631,749.
Prigent, Claude, 3,642,115.

Service Dynamics, Inc.: *See—*
Grazier, Robert L.; and Kudingo, Kenneth F., 3,670,512.

Service National dit: Gaz de France: *See—*
Vignes, Roger, 3,635,209.
Vignes, Roger, 3,687,602.

Servo Corporation of America, mesne: *See—*
Reynolds, Christopher C., 3,700,860.

Servodyne Corporation: *See—*
De Baun, Kenneth W., 3,707,046.

Servotronics, Inc.: *See—*
Trbovich, Nicholas D.; Meyer, William H.; and Bauer, Paul R. (said Meyer and said Bauer assors. to), 3,639,871.

Sesame, John Kraft, Corporation: *See—*
Kraft, John H., 3,669,678.

Sese, Kiyoaki, to Asahi Glass Co., Ltd. Method for the manufacture of magnesium hydroxide. 3,658,473, 4-25-72, Cl. 23-201.

Sesko, William J.: *See—*
Morrow, Robert D.; and Sesko, William J., 3,682,183.

Sesko, William J. Fare box with belt conveyor and coin size detector. 3,667,485, 6-6-72, Cl. 133-8.000.

Sesky, Julius; and Clark, Charles J. Traction attachment for vehicles. 3,695,727, 10-3-72, Cl. 301-43.000.

Sessions, Donald W. Hulls in water craft. 3,704,473, 12-5-72, Cl. 9-2.00s.

Sessler, Donald R., to Dynametric, Inc. Method for detecting aging of articles. 3,638,495, 2-1-72, Cl. 73-362.

Sessler, Gerhard M.; and West, James Edward, to Bell Telephone Laboratories, Incorporated. Method for producing permanent electret charges in dielectric materials. 3,644,605, 2-22-72, Cl. 264-22.

Sessler, Gerhard Martin; and West, James Edward, to Bell Telephone Laboratories, Incorporated. Method and apparatus for measurement of surface charge of an electret. 3,652,932, 3-28-72, Cl. 324-72.

Sessler, Gerhard Martin; Wallace, Robert Lee, Jr.; and West, James Edward, to Bell Telephone Laboratories, Incorporated. Touch-sensitive switch employing electret foil. 3,668,417, 6-6-72, Cl. 307-113.000.

Sessler, Gerhard Martin; and West, James Edward, to Bell Telephone Laboratories, Incorporated. Preparation of electret transducer elements by application of controlled breakdown electric field. 3,705,312, 12-5-72, Cl. 307-88.0et.

Sessody, Donald W., to Applied Power Industries, Inc. Fluid operated vise. 3,632,102, 1-4-72, Cl. 269-25.

Sessody, Donald W., to Applied Power Industries, Inc. Multiple collet chuck. 3,632,122, 1-4-72, Cl. 279-4.

Sessody, Donald W., to Applied Power Industries, Inc. Traversing workholding clamp. 3,700,227, 10-24-72, Cl. 269-24.000.

Sestanj, Kazimir; and Chomedey, Laval, to Ayerst, McKenna & Harrison Limited. Dimethylbenzodithian-2-oxide. 3,682,963, 8-8-72, Cl. 260-327.00r.

Sesti, Ferdinand: *See—*
Sesti, Joseph J.; and Sesti, Ferdinand, 3,706,456.

Sesti, Joseph J.; and Sesti, Ferdinand. Board game apparatus. 3,706,456, 12-19-72, Cl. 273-135.0ac.

Sestrich, Donald E., to Westinghouse Electric Corporation. Pyrolytic deposition of silicon nitride films. 3,637,423, 1-25-72, Cl. 117-106.

Seta, Shigetoshi: *See—*
Seko, Maomi; Yomiyama, Akira; Takahashi, Yasunobu; Seta, Shigetoshi; and Nakagawa, Koji, 3,664,936.

Setescak, Linda Louise: *See—*
Narayanan, Venkatachala Lakshmi; Setescak, Linda Louise; and Weisenborn, Frank Lee, 3,668,206.

Seth, Kishan K.: *See—*
Frey, Frederick W., Jr.; Hutchinson, Donald O.; and Seth, Kishan K., 3,661,561.

Seth, Kishan K.; and Lanier, Carroll W., to Ethyl Corporation. Reactor and method of making aluminum-silicon alloys. 3,661,562, 5-9-72, Cl. 75-68.

Seth, Ram Gopal, to American Standard, Inc. Water heater having fluidized bed combustion and heat exchange region. 3,645,237, 2-29-72, Cl. 122-4.

Setina, John R. Automobile partition apparatus having horizontal sliding window portion mounted on guard plate. 3,667,801, 6-6-72, Cl. 296-24.00r.

Setnik, Harry A., to United States of America, Air Force, mesne. Mandrels. 3,652,024, 3-28-72, Cl. 242-1.

Setnikar, Ivo: *See—*
Bonola, Giuseppe; Da Re, Paolo; and Setnikar, Ivo, 3,637,681.

Seto, David K.: *See—*
Doo, Ven Y.; Regh, Joseph; and Seto, David K., 3,701,659.

Seto, Hiroshi; Ueda, Mituko; and Segawa, Humio, to Sankyo Keiryoki Kabushiki Kaisha. Thermometer using liquid crystal compositions. 3,704,625, 12-5-72, Cl. 73-356.000.

Seto, Tetsuki: *See—*
Hamada, Takaki; Nakashio, Seizo; Maruta, Isao; Hayatsu, Kazuo; Seto, Tetsuki; and Kono, Yoichi, 3,700,630.

Seto, Yoshihiro, to Fuji Photo Film Co., Ltd. Light-intercepting composition for photographic light-sensitive film. 3,660,153, 5-2-72, Cl. 117-155.

Setoguchi, Shinro: *See—*
Nakanishi, Michio; Munakata, Tomohiko; and Setoguchi, Shinro, 3,706,764.

Setone, Isami; and Yoshino, Akira, to Matsushita Electric Works, Ltd. Circuit protector. 3,689,855, 9-5-72, Cl. 335-63.000.

Setser, Donald D., to Dow Chemical Company, The. Sleep sensing apparatus for use on automotive vehicles. 3,678,494, 7-18-72, Cl. 340-279.000.

Setser, James L.; and Schneider, Eugene P., Jr., to General Electric Company. Combined wastewater treatment and power generation. 3,635,764, 1-18-72, Cl. 136-86.

Setsuda, Kisuke; and Sugiyama, Iwakichi, to Matsumoto Seiyaku Kogyo Kabushiki Kaisha. Adhesive composition containing a cyanoacrylate as its main ingredient. 3,692,752, 9-19-72, Cl. 260-78.500.

Settanni, Richard: *See—*
Lee, Donald S.; and Settanni, Richard, 3,692,250.

Settele, Helmut: *See—*
Gotschel, Hans; and Settele, Helmut, 3,680,620.

Setterquist, Robert Alton, to Du Pont de Nemours, E. I., and Company. Method for preparing random copolymers of formaldehyde and olefin oxides and/or vinyl ethers. 3,661,854, 5-9-72, Cl. 260-67.

Settimi, Raymond J. Restraint apparatus. 3,679,228, 7-25-72, Cl. 280-150.0sb.

Settineri, William J.: *See—*
Wessling, Ritchie A.; and Settineri, William J., 3,697,398.

Settineri, William J.; and Wessling, Ritchie A., to Dow Chemical Company, The. Process for producing bisorganomercury compounds by the electroreduction of sulfonium compounds. 3,649,483, 3-14-72, Cl. 204-72.

Settineri, William J.; and Wessling, Ritchie A., to Dow Chemical Company, The. Electrolytic process for the preparation of α-methylbenzyl dimers from sulfonium compounds. 3,660,257, 5-2-72, Cl. 204-72.

Settineri, William J.; and Wessling, Ritchie A., to Dow Chemical Company, The. Process for producing bisorganomercury compounds. 3,681,419, 8-1-72, Cl. 260-433.000.

Settipani, Antoine: *See—*
Gaggero, Giancarlo; Mongini-Tamagnini, Carla; and Settipani, Antoine, 3,700,162.

Settlage, Paul Herman; and Thornton, Roger Lea, to Du Pont de Nemours, E. I., and Company. Process for preparing a coating composition of copolymeric vinylidene chloride. 3,701,745, 10-31-72, Cl. 260-28.50r.

Setty, Richard D.: *See—*
Werner, Ben E.; and Setty, Richard D., 3,669,308.

Setzer, Henry J., to Dennison Manufacturing Company. Precut composite tape structure. 3,690,999, 9-12-72, Cl. 161-39.000.

Setzer, Herbert J., to United Aircraft Corporation. Hydrogen generator desulfurizer employing feedback ejector. 3,655,448, 4-11-72, Cl. 136-86.

Setzler, Paul C., to Heli-Coil Corporation. System for insertion tool control. 3,654,688, 4-11-72, Cl. 29-240.

Seuferer, Paul A.: *See—*
Martin, Kenneth G.; and Seuferer, Paul A., 3,701,936.

Seufert, Ludwig E.: *See—*
Blume, Roe C.; and Seufert, Ludwig E., 3,651,199.

Seulen, Gerhard; and Reinke, Friedhelm, to AEG-Elotherm G.m.b.H. Method and apparatus for hot straightening elongated metal workpieces. 3,631,698, 1-4-72, Cl. 72-56.

Seulen, Gerhard; Reinke, Friedhelm H.; and Stengel, Edgar, to AEG-Elotherm G.m.b.H. Process for the improvement of the development of the texture of inductive surface-hardened steel parts. 3,682,721, 8-8-72, Cl. 148-131.000.

Seulen, Gerhard; and Von Starck, Axel, to AEG-Elotherm GmbH. Method for casting metered quantities of liquid metals. 3,696,858, 10-10-72, Cl. 164-49.000.

Seus, Edward J.: *See—*
Herz, Arthur H.; Burness, Donald M.; and Seus, Edward J., 3,706,562.

Sevag, Manasseh G., to University of Pennsylvania, The trustees of the. Antimutagenic treatment of bacteria. 3,689,646, 9-5-72, Cl. 424-181.000.

Sevaon Engineering Limited: *See—*
Sloan, Albert Everett; and Turnbull, Alistair Gordon, 3,699,416.

Sevc, John M.; and Pierce, Howard E., Jr., to Litton Systems, Inc. Apparatus and method for aligning a plurality of connector mounted pins by deformation and reformation thereof. 3,664,016, 5-23-72, Cl. 29-628.

Sevcon Engineering Limited: *See—*
Gurwicz, David, 3,646,414.
Gurwicz, David, 3,648,151.

Sevenich, Theodor: *See—*
Fabian, Wolfgang; Sevenich, Theodor; and Kuhn, Klaus, 3,648,861.
Nellen, Wilhelm; Sevenich, Theodor; and Wladika, Hans, 3,693,393.

Sevenich, Theodor; Zahn, Friedrich; and Zens, Peter, to Maschinen- und Werkzeugbau GmbH. System for the replacement of rolling-mill rolls. 3,695,080, 10-3-72, Cl. 72-239.000.

Sevenich, Theodor Josef; Fabian, Wolfgang; and Kuhn, Klaus, to Maschinen- und Werkzeugbau GmbH. Pusher-type furnace. 3,700,122, 10-24-72, Cl. 214-24.000.

Sevenska Dalaregister AB: *See—*
Skoog, Hilding G. A., 3,675,109.

Severance, William A. N., to Du Pont de Nemours, E. I., and Company. Photographic emulsion silver gage. 3,688,110, 8-29-72, Cl. 250-51.500.

Severini, Febo; Valvassori, Alberto; and Tavazzani, Carlo, to Montecatini Edison S.p.A. Preparation of polymeric compositions of high anti-impact resistance. 3,676,528, 7-11-72, Cl. 260-878.00r.

Severino, Regina. Adhesively attached slide fastener and tape assembly. 3,685,103, 8-22-72, Cl. 24-205.160.

Severn, Alpha, 1/2 to Coon, James A. and 1/2 to Theobald, Edwin. Carburetor and dash pot control therefor. 3,682,449, 8-8-72, Cl. 261-23.00a.

Severn, Arthur Charles, to Lucas, Joseph, (Industries) Limited. Warning circuits for road vehicles. 3,649,960, 3-14-72, Cl. 340-52.

Severodonetsky Filial Niihimmash: *See—*
Bodunov, Igor Vasilievich; Modestov, Boris Sergeevich; and Ivanchenko, Viktor Vasilievich, 3,704,076.

Severson, Kermit H. Tablet container with closure element. 3,651,979, 3-28-72, Cl. 220-41.

Severus, Harald: *See—*
Schrade, Jean; Severus, Harald; and Muller, Walter, 3,660,207.

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Sevy, William R.: *See*—
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Sewell, Curtis O. Door threshold and fastener assembly. 3,667,192, 6-6-72, Cl. 52-213.
Sewell, Ernest. Crease-resistant woven cotton sheeting and a process for its production. 3,689,313, 9-5-72, Cl. 117-139.400.
Sewell, Frank A., Jr., to Sperry Rand Corporation. Optical memory circuit. 3,648,258, 3-7-72, Cl. 340-173.
Sewell, Kenneth G.: *See*—
Boatner, Lynn A.; and Sewell, Kenneth G., 3,651,426.
Sewell, Kenneth G., to Advanced Technology Center, Inc., mesne. Logic device employing light-controlled Gunn-effect oscillations. 3,651,423, 3-21-72, Cl. 331-66.
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Sexsmith, Frederick H., to Millmaster Onyx Corporation. Method of manufacturing ready-to-wear crease-retentive garments. 3,660,009, 5-2-72, Cl. 8-116.000.
Sexstone, John H., to Brown and Williamson Tobacco Corporation. Cigarette paper tube manufacture. 3,693,313, 9-26-72, Cl. 53-3.000.
Sexton, Charles W., Jr., to General Electric Company. Temperature compensation means for electronic circuit. 3,686,517, 8-22-72, Cl. 307-310.000.
Sexton, Edwin Leon: *See*—
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Sexton, Paul A. Hand type fish scaling device. 3,667,086, 6-6-72, Cl. 17-66.
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Seyfarth, Robert, to General Motors Corporation. System for mixing air with fuel tank vapor. 3,645,244, 2-29-72, Cl. 123-136.
Seyferth, Dietmar; and Lambert, Robert L., Jr., to Massachusetts Institute of Technology. Process for preparing phenyl (trihalomethyl) mercury compounds. 3,658,861, 4-25-72, Cl. 260-433.
Seyferth, Dietmar; and Spohn, Ralph J., to Massachusetts Institute of Technology. Synthesis of ketones from organo mercury compounds and carbon monoxide. 3,692,652, 9-19-72, Cl. 204-158.00r.
Seyferth, Dietmar; Hopper, Steven P.; and Darragh, Kird V., to Massachusetts Institute of Technology. Method for making organo (fluoromethyl) mercury compounds. 3,694,477, 9-26-72, Cl. 260-433.000.
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Seyfried, Richard F., to Park-Ohio Industries, Inc. Method and apparatus for adjusting the coupling between an inductor and valve seat. 3,684,852, 8-15-72, Cl. 219-10.570.
Seyl, Robert G. Method of measuring accelerated corrosion rate. 3,694,324, 9-26-72, Cl. 204-1.00t.
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Shackelford, William E.; and Fullen, Warren J. Polyurea polymer preparation from organic polyisocyanates and complex derivatives of polyamines wherein the primary amine groups thereof are converted to aldimine or ketimine groups and the secondary amine grop or groups thereof have been reacted with organic isocyanates. 3,682,867, 8-8-72, Cl. 260-77.5ch.
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Shafer, James F., to Continental Electronics Manufacturing Co. Quadrapost fail safe insulator. 3,634,610, 1-11-72, Cl. 174-184.
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Shaffer, Frank E. Cable connector. 3,702,709, 11-14-72, Cl. 287-81.000.
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Shaffer, John W., to Sylvania Electric Products, Inc. Photoflash lamp and method of preparing and applying fulminating material. 3,645,663, 2-29-72, Cl. 431-93.
Shaffer, John W.; and McDonough, Thomas B., to GTE Sylvania Incorporated. Photographic flashlamp unit. 3,665,176, 5-23-72, Cl. 240-1.300.
Shaffer, John W., to Sylvania Electric Products, Inc. Photoflash lamp. 3,674,411, 7-4-72, Cl. 431-93.000.
Shaffer, John W.; and Bennett, Sedgwick R., to Sylvania Electric Products, Inc. Photographic flashlamp unit. 3,692,996, 9-19-72, Cl. 240-1.300.
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Shaffer, Roy E., to United States of America, Army. Frangible glass grenade. 3,683,815, 8-15-72, Cl. 102-65.000.
Shaffer, Walter M., to Towmotor Corporation. Control for hydrostatic transmission. 3,691,863, 9-19-72, Cl. 74-478.000.
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Shaffer, William E., to Stromberg-Carlson Corporation. Pulsing circuit including a switching and current regulator circuit. 3,676,601, 7-11-72, Cl. 179-16.00e.
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Shah, Franklin Bong-See, to Industrial Nucleonics Corporation. Radiation measurement system with MOSFET electrometer circuit which is protected against voltage transients. 3,654,468, 4-4-72, Cl. 250-83.3.
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Shah, Gautham C., to Burroughs Corporation. Web tensioning device. 3,647,128, 3-7-72, Cl. 226-195.
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Shah, Harshavadan C.; Buzby, George C., Jr.; and Smith, Herchel, to American Home Products Corporation. Novel 3-etherified-1,3,5(10)-triene-steroids and process thereof. 3,689,512, 9-5-72, Cl. 260-397.400.
Shah, Indravadan S., to Chemical Construction Corporation. Removal of sulfur dioxide from gas streams. 3,653,823, 4-4-72, Cl. 23-129.
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Shah, Indravadan S., to Chemical Construction Corporation. Thermal conversion of magnesium sulfite to magnesium oxide. 3,681,020, 8-1-72, Cl. 23-201.000.
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Shahani, Prakash W., to Sea-Land Service, Inc. Tarpaulin tie down assembly for open top containers. 3,664,539, 5-23-72, Cl. 220-24.000.
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Shaheen, Joseph M.; and Simone, John, to North American Rockwell Corporation. Interstitial conductors between plated memory wires. 3,641,520, 2-8-72, Cl. 340-174.
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Shaines, Alfred; Kalish, Robert L.; and Hamer, Edward A. G., to Abcor Water Management Company, Inc., mesne. Support for semi-permeable membrane. 3,695,964, 10-3-72, Cl. 156-161.000.
Shair, Fredrick H.; and Ravimohan, Arakali L., to United States of America, Atomic Energy Commission. Non-equilibrium plasma reactor for natural gas processing. 3,703,460, 11-21-72, Cl. 204-327.000.
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Shalders, Alan John, to A.C.E. Machinery Limited. Spring applied emergency brake. 3,635,315, 1-18-72, Cl. 188-189.
Shalders, Alan John, to A.C.E. Machinery Limited. Cage gate lock mechanisms. 3,659,677, 5-2-72, Cl. 187-61.
Shaler, Amos J.; and Clancy, William E., to Stackpole Carbon Company. Apparatus for removing oil floating on water. 3,659,715, 5-2-72, Cl. 210-242.
Shaler, David; and Varrichio, Ralph A., to EG & G, Inc., mesne. Electrostatic recording paper toner section. 3,664,299, 5-23-72, Cl. 118-637.000.
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Shamoo, Adil E. Liquid scintillators. 3,676,360, 7-11-72, Cl. 252-301.20r.
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Shanahan, John L. Friction drive rotary engine. 3,650,632, 3-21-72, Cl. 415-90.
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Shane, Berwyn E., to Pacific Associated Lighting, Inc. Hinge. 3,663,990, 5-23-72, Cl. 16-178.000.
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Shank, Joseph L. Edible films and casings of collagen and casein. 3,695,902, 10-3-72, Cl. 99-176.000.
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Shank, Raymond S.; Kallenborn, Vernon H.; and Kennedy, Alice W., to Standard Oil Company, The. Thermosetting composition having character. 3,682,858, 8-8-72, Cl. 260-40.00r.
Shank, Richard C.; Zucker, Carl E.; Jones, David H.; Ribb, Harry F., Jr.; and Bayard, Robert T., to United States of America, Atomic Energy Commission. Power-flattened seed-blanket reactor core. 3,640,844, 2-8-72, Cl. 176-18.
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mated gelatin holograms to high relative humidity ambients. 3,660,091, 512-72, Cl. 96-49.
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Shannon, James L., to Edcodyne Corporation. Substantially non-consumable, machine scorable and computer processable educational and testing devices particularly adapted for the testing of young children. 3,634,953, 1-18-72, Cl. 35-48.
Shannon, James William, to Vickers Hoskins Pty., Limited. Self aligning latching mechanism on a cargo container spreader. 3,677,599, 7-18-72, Cl. 294-67.0da.
Shannon, John K.; and Shannon, John K., Jr., to Quick-Cable Corporation. Electrical cable connector. 3,694,799, 9-26-72, Cl. 339-230.00r.
Shannon, John K., to Quick Cable Corporation. Method of making battery post terminal clamp. 3,695,336, 10-3-72, Cl. 164-98.000.
Shannon, John K., Jr.: *See—*
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Shannon, Richard F., to Owens-Corning Fiberglas Corporation. Vitreous fibers bonded with a thermoset resin including two organo-silicon compounds. 3,702,798, 11-14-72, Cl. 161-170.000.
Shannon, Robert A.; and Waters, Charles A., to United States Steel Corporation. Recuperative furnaces. 3,690,636, 9-12-72, Cl. 266-55.000.
Shannon, Robert D., to Du Pont de Nemours, E. I., and Company. Orthorhombic platinum-metal oxides of type Pt_3MO_6. 3,663,181, 5-16-72, Cl. 23-315.
Shannon, Suel Grant, to AMP Incorporated. Disposable forceps. 3,653,389, 4-4-72, Cl. 128-354.
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Shannon, Thomas E., to United Aircraft Corporation. Variable contour reflector with cooling system. 3,644,020, 2-22-72, Cl. 350-295.
Shano, Charles L. Capacitor discharge pulse source. 3,651,341, 3-21-72, Cl. 307-246.
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Shapiro, Sidney; and Longacre, Andrew, Jr., to United States of America, Navy. Frequency conversion with Josephson junctions. 3,671,848, 6-20-72, Cl. 321-69.0nl.
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Shapiro, Stephen I., to Union Carbide Corporation. Sample holder and transferring device for a centrifuge. 3,681,029, 8-1-72, Cl. 23-259.000.
Shapiro, Sumner, to Star Textiles & Research, Inc. Hydraulic control system for crosser machine. 3,636,817, 1-25-72, Cl. 91-171.
Shapiro, William A.; and Kemmerer, Robert P., Jr., to Bendix Corporation, The. Solid state ring laser. 3,657,733, 4-18-72, Cl. 330-4.3.
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Sharan, Harendra Nath, to Sulzer Brothers Limited. Control system for a multiplicity of muffle burners. 3,649,155, 3-14-72, Cl. 431-19.
Sharan, Harendra Nath, to Sulzer Brothers Limited. Muffle burner. 3,695,817, 10-3-72, Cl. 431-178.000.
Sharbon, Jack Z., to American Flange & Manufacturing Co., Inc. Method in apparatus for feeding closures. 3,707,217, 12-26-72, Cl. 198-33.0aa.
Share, Nathan Norman; and Mc Farlane, Cyril Stephen. Indole derivatives in the treatment of stretched muscle fatigability. 3,689,657, 9-5-72, Cl. 424-274.000.
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Sharkey, Hubert Joseph; and Sturwold, Robert J., to Emery Industries, Inc. Polyamides exhibiting improved freeze-thaw characteristics in printing ink compositions. 3,700,618, 10-24-72, Cl. 260-33.40r.
Sharki, Martin J.; and Mazoch, Charles J., to Dresser Industries, Inc. Recorder alarm system. 3,698,003, 10-10-72, Cl. 346-17.000.
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Sharman, Samuel H., to Chevron Research Company. High temperature bleaching of aliphatic sulfonates. 3,632,515, 1-4-72, Cl. 252-95.
Sharman, Samuel H., to Chevron Research Company. Hypochlorite bleaching of monoelefinic hydrocarbon sulfonates. 3,639,282, 2-1-72, Cl. 252-95.
Sharman, Samuel H., to Chevron Research Company. Hydrogenated olefin sulfonate-fatty acid amide detergent compositions. 3,676,372, 7-11-72, Cl. 252-525.000.
Sharman, Samuel H., to Chevron Research Company. Hydrogenated olefin sulfonate-alkyl-1,2-glycol detergent compositions. 3,705,113, 12-5-72, Cl. 252-555.000.
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Sharp, Allen W. Poultry processing method and apparatus. 3,703,021, 11-21-72, Cl. 17-47.000.
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Sharp, David Harold. Liquid reservoir. 3,668,709, 6-13-72, Cl. 4-28.
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Sharp, Denis, to U.S. Philips Corporation, mesne. Anti-lock brake systems. 3,663,068, 5-16-72, Cl. 303-21.
Sharp, Denis, to U.S. Philips Corporation. Electrical circuit arrangements for converting variable rate of pulse transmission into a related electrical output quantity. 3,689,778, 9-5-72, Cl. 307-233.000.
Sharp, Denis, to U.S. Philips Corporation. Circuit for converting a variable frequency pulse circuit into a related electric voltage. 3,702,407, 11-7-72, Cl. 307-233.000.
Sharp, Denis, to U.S. Philips Corporation. Anti-lock brake system with variable rate brake pulsing. 3,707,310, 12-26-72, Cl. 303-21.0cg.
Sharp, Denis, to U.S. Philips Corporation. Anti-lock brake systems for wheeled vehicles. 3,707,311, 12-26-72, Cl. 303-21.0cg.
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Sharp, Kenneth Henry. Treatment of raw protein. 3,707,381, 12-26-72, Cl. 99-18.000.
Sharp, Merle F., to Robertson, H. H., Company. Fiber-reinforced plastic structural member. 3,669,821, 6-13-72, Cl. 161-127.000.
Sharp, Paul H., to Columbia Broadcasting System, Inc. Variable distance doppler generator. 3,695,385, 10-3-72, Cl. 181-31.00b.
Sharp, William T., to General Electric Company. Vacuum-type electric switchgear. 3,691,332, 9-12-72, Cl. 200-144.00b.
Sharpe, Cecil H., to General Motors Corporation. Apparatus and method for burning contaminated fuel. 3,658,249, 4-25-72, Cl. 239-125.
Sharpe, Everett E.; and Hughes, Johnstone E., to Better Packages Inc. Liquid applicator for strip material. 3,707,135, 12-26-72, Cl. 118-244.000.
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Sharpe, Louis H.; Shroff, Jayant R.; and Vaccaro, Frank J., to Bell Telephone Laboratories, Incorporated. Apparatus for and method of forming post seal for lead-acid cell. 3,652,340, 3-28-72, Cl. 136-168.
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Sharpe, Verlos G., to General Motors Corporation. Apparatus for sanitizing a domestic clothes washer. 3,702,069, 11-7-72, Cl. 68-12.00r.
Sharples, Allan; Rostron, Arthur John; and Mc Gibbon, Graeme, to Ilford Limited. Photosensitive devices incorporating polymeric elements which give high absolute photo-currents. 3,676,688, 7-11-72, Cl. 250-211.00r.
Sharples, Thomas D., to Beckman Instruments, Inc. Viewing apparatus for use in a photometer. 3,663,109, 5-16-72, Cl. 356-201.
Sharpless, Edward N.; and Davis, Frederick, to Liquid Crystal Industries, Inc. Color display devices. 3,647,279, 3-7-72, Cl. 350-160.

Sharpless, Graham Trevor, to U.S. Philips Corporation. Glow discharge matrix display with improved addressing means. 3,686,661, 8-22-72, Cl. 340-324.00r.
Sharpton, Dallas E. Waste oil recovery unit. 3,643,804, 2-22-72, Cl. 210-242.
Sharron, Paul A., to Profab Inc. Art frame assembly. 3,668,799, 6-13-72, Cl. 40-152.100.
Shartle, Edward W., to Fasco Industries, Inc. Tank defroster for beverage dispensing machine. 3,648,477, 3-14-72, Cl. 62-155.
Shastal, John F. Musical potty chair. 3,691,980, 9-19-72, Cl. 116-67.000.
Shastri, Shiri, to Virginia Chemicals Inc. Sodium hydrosulfite stabilization composition. 3,669,895, 6-13-72, Cl. 252-188.000.
Shatan, David M. Modular table lamp. 3,689,762, 9-5-72, Cl. 240-81.00c.
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Sheppard, Charles W., to Westinghouse Air Brake Company. Emergency trip apparatus for a braking system. 3,707,627, 12-26-72, Cl. 246-192.000.

Sheppard, Chester Stephen; and Macleay, Ronald Edward, to Pennwalt Corporation. Water soluble azoformate esters. 3,644,406, 2-22-72, Cl. 260-192.

Sheppard, Chester Stephen; and MacLeay, Ronald Edward, to Pennwalt Corporation. Polyazo sequential free radical initiators. 3,649,614, 3-14-72, Cl. 260-174.

Sheppard, Chester Stephen; and Korczykowski, Leonard Earnest, to Pennwalt Corporation. Hydrazine derivatives and process therefor. 3,657,324, 4-18-72, Cl. 260-482.

Sheppard, John E.; and Pellechia, Vincent J., to General Instrument Corporation, mesne. Method for bonding with deposited particulate glass. 3,667,925, 6-6-72, Cl. 65-43.000.
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Sheppard, Milton R .; and Henderson, William Leland, to Kimberly-Clark Corporation. Flushable web containing flushability indicator and absorbent pads wrapped therewith. 3,702,610, 11-14-72, Cl. 128-284.000.
Sheppard, Robert S.; and Wilson, William L., to PPG Industries, Inc. Preparation of titanium carbide. 3,661,523, 5-9-72, Cl. 23-208.
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England, David C.; Raasch, Maynard S.; and Sheppard, William Arthur, 3,694,460.
Sheppley, William S., Jr., to International Business Machines Corporation. Modular electrical enclosure. 3,643,389, 2-22-72, Cl. 52-79.
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Sherard, James L. Method and apparatus for constructing impervious underground walls. 3,645,101, 2-29-72, Cl. 61-35.
Sherba, Samuel E., to Rohm & Haas Company. Process for rendering innocuous flatulence producing saccharides. 3,632,346, 1-4-72, Cl. 99-98.
Sherba, Samuel E.; Steigerwalt, Ronald B.; Faith, William T., Jr.; and Smythe, Carl V., to Rohm & Haas Company. Soybean fractionation employing a protease. 3,640,725, 2-8-72, Cl. 99-17.
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Sherburne, Philip C. Shock absorber for fluid systems. 3,702,646, 11-14-72, Cl. 188-280.000.
Sherelis, Robert Thomas, to Miles Laboratories, Inc. Test system for the determination of substances in test fluids and process for the preparation thereof. 3,694,163, 9-26-72, Cl. 23-253.0tp.
Sherer, Paul; and Halverson, Phillip C., to SDS Data Systems, Inc., mesne. Seismic amplifiers. 3,685,047, 8-15-72, Cl. 340-347.0ad.
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Sheridan, David S.: *See—*
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Sheridan, David S. Sterile technique tube end closure and syringe adaptor. 3,633,586, 1-11-72, Cl. 128-351.
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Sheridan, John L., to Weyerhaeuser Company. Method of manufacturing consolidated articles by the use of steam atomized wax. 3,677,808, 7-18-72, Cl. 117-105.300.
Sheridon, Nicholas K., to Xerox Corporation. Holographic data storage and retrieval system. 3,661,438, 5-9-72, Cl. 350-3.5.
Sheridon, Nicholas K., to Xerox Corporation. Fabrication of refractive blazed holograms. 3,680,945, 8-1-72, Cl. 350-3.500.
Sherif, Fawzy G., to Du Pont de Nemours, E. I., and Company. Phosphorylguanidine esters. 3,634,555, 1-11-72, Cl. 260-926.
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Sherlock, Margaret H.; and Sperber, Nathan, to Schering Corporation. Cyclopropane carboxylic acid derivatives. 3,674,832, 7-4-72, Cl. 260-469.000.
Sherlock, Margaret H., to Schering Corporation. Glyceryl-n-(substituted phenyl) anthranilates. 3,681,394, 8-1-72, Cl. 260-340.900.
Sherlock, Margaret H., to Schering Corporation. Process for alleviating pain. 3,686,406, 8-22-72, Cl. 424-266.000.
Sherlock, Margaret H.; and Sperber, Nathan, to Schering Corporation. Compositions and methods for treating inflammation using substituted nicotinic acids. 3,689,653, 9-5-72, Cl. 424-266.000.
Sherlock, Margaret H., to Schering Corporation. 2-(2-Methylan ilino)-nicotinic acid. 3,697,533, 10-10-72, Cl. 260-295.50r.
Sherman, Albert H.; and Zech, John D., to Atlas Chemical Industries, Inc. Mixtures of fatty ethers of polyhydric alcohols and their anhydrides and process for producing said mixtures. 3,671,458, 6-20-72, Cl. 252-351.000.
Sherman, Allen Butman, to Ritchie, E. S., & Sons, Inc. Magnetic compass tack heading indicator. 3,664,292, 5-23-72, Cl. 116-114.000.
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Sherman, Donald W. Support assembly for garbage cans. 3,696,938, 10-10-72, Cl. 211-78.000.
Sherman, Earle C., to Olinkraft, Inc. Package forming apparatus. 3,664,088, 5-23-72, Cl. 53-180.000.
Sherman, Frederick L. Method of making an inflated product with a bend. 3,683,487, 8-15-72, Cl. 29-470.900.
Sherman, Gale K., to McDonnell Douglas Corporation. Multi-harness buckle. 3,639,948, 2-8-72, Cl. 24-205.17.
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Sherman, Joseph. Cable terminal. 3,673,550, 6-27-72, Cl. 339-225.000.
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Sherman, Paul David; and Chloupek, Frank J., to Atlantic Richfield Company. Process for the preparation of zinc alkyl orthophosphates. 3,655,704, 4-11-72, Cl. 260-429.9.
Sherman, Ralph R., Jr., to General Electric Company. Power control circuit. 3,644,832, 2-22-72, Cl. 325-186.
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Sherman, Roger M. Irrigation system. 3,680,787, 8-1-72, Cl. 239-177.000.
Sherman, Samuel; and Danzik, Mitchell, to Chevron Research Company. High molecular weight polysulfates. 3,646,100, 2-29-72, Cl. 260-458.
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Sherrick, James W., to Lord Corporation. Resilient bearing adapter for railway trucks. 3,699,897, 10-24-72, Cl. 105-218.00r.
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Sherwood, John C., to Sher Walls Inc. Operable wall panel. 3,685,223, 8-22-72, Cl. 52-64.000.
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Sheth, Prabhakar Ranchhordas; and Katz, Gilbert, to Hoffmann-La Roche Inc. Tablets containing 1-dopa. 3,632,778, 1-4-72, Cl. 424-319.
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Shettel, Ralph E. Domestic ironing board. 3,698,110, 10-17-72, Cl. 38-107.000.
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Shetty, Bola Vithal, to Pennwalt Corporation. 1-Heterocyclic alkyl-1,2,3,4-tetrahydroquinazolinone and analgesic intermediates thereof. 3,635,976, 1-18-72, Cl. 260-256.4.
Shetty, Bola Vithal, to Pennwalt Corporation. Halo-sulfamyl-spiro- and dialkyl-quinazolinones. 3,637,698, 1-25-72, Cl. 260-256.5.
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Shevlin, Thomas S., to Minnesota Mining and Manufacturing Company. Apparatus and method for pulse cooking and heating. 3,666,921, 5-30-72, Cl. 219-492.000.
Sheward, Marvin L. Universally-mountable gas service regulator. 3,705,599, 12-12-72, Cl. 137-116.500.
Sheya, Fred. Pump apparatus for bottled water. 3,653,413, 4-4-72, Cl. 141-1.
Shiari, Yoshimichi; and Komori, Toshimi, to Nippon Denso Kabushiki Kaisha. Ignition coil for internal combustion engine. 3,680,017, 7-25-72, Cl. 336-213.000.
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Shiba, Kamekichi. Movable venturi type tube flow meter. 3,693,437, 9-26-72, Cl. 73-194.00m.
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Shiba, Keisuke; and Sato, Akira, to Fuji Photo Film Co., Ltd. Silver halide supersensitized photographic emulsion. 3,632,349, 1-4-72, Cl. 96-123.

Shiba, Keisuke; Hinata, Masanao; Sato, Akira; and Misu, Hiroshi, to Fuji Photo Film Co., Ltd. Super sensitized silver halide photographic emulsion. 3,649,288, 3-14-72, Cl. 96-122.

Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; Miyazako, Takushi; and Sato, Akira, to Fuji Photo Film Co., Ltd. Supersensitized silver halide photographic emulsion. 3,650,762, 3-21-72, Cl. 96-122.

Shiba, Keisuke; Ohi, Reiichi; Sugiyama, Masatoshi; Ohhashi, Azusa; and Tusbota, Motoniko, to Fuji Photo Film Co., Ltd. Silver halide photographic emulsions containing phenozine-N-oxides desensitizers. 3,658,547, 4-25-72, Cl. 96-101.

Shiba, Keisuke; Sato, Akira; and Ideka, Tadashi, to Fuji Photo Film Co., Ltd. Spectrally sensitized silver halide photographic emulsion. 3,666,480, 5-30-72, Cl. 96-124.

Shiba, Keisuke; Akira, Sato; and Tsubota, Motohiko, to Fuji Photo Film Co., Ltd. Spectrally super sensitized silver halide photographic emulsion. 3,667,960, 6-6-72, Cl. 96-124.000.

Shiba, Keisuke; Ohi, Reiichi; and Shishido, Tadao, to Fuji Photo Film Co., Ltd. Super sensitized silver halide photographic emulsion. 3,669,672, 6-13-72, Cl. 96-126.000.

Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; and Sato, Akira, to Fuji Photo Film, Ltd. Silver halide photographic supersensitized emulsion. 3,674,499, 7-4-72, Cl. 96-123.000.

Shiba, Keisuke; Tsubota, Motohiko; Sato, Akira; Ikeda, Tadashi; and Ogawa, Akira, to Fuji Photo Film Co., Ltd. Spectrally sensitized photographic emulsions. 3,679,428, 7-25-72, Cl. 96-124.000.

Shiba, Keisuke; Hinata, Masanao; Yoshida, Makoto; Imai, Shinichi; Sato, Akira; and Watanabe, Shigaru, to Fuji Photo Film Co., Ltd. Spectrally sensitized photographic materials suitable for silver dye bleaching method. 3,682,640, 8-8-72, Cl. 96-99.000.

Shiba, Keisuke; Sueyoshi, Tohru; Akira, Sato; Kubodera, Seiiti; and Tsubota, Motohiko, to Fuji Photo Film Co., Ltd. Photographic emulsion containing optically dye-sensitized silver halide grains of less than 2.2 micron. 3,706,566, 12-19-72, Cl. 96-120.000.

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Shibai, Hiroshiro: *See*—
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Shibano, Takashi, to Matsushita Electric Industrial Co., Ltd. Power supply for driving magnetron. 3,671,847, 6-20-72, Cl. 321-32.000.

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Shibata, Akira, to Chugai Denki Kogyo Kabushiki Kaisha. Heading machine. 3,635,389, 1-18-72, Cl. 228-3.

Shibata, Akira, to Chugai Electric Industrial Co., Ltd. Composite silver cadmium oxide alloy contact with silver cadmium surface. 3,688,067, 8-29-72, Cl. 200-166.00c.

Shibata, Fukuo, to Kawasaki Jukogyo Kabushiki Kaisha (Kawasaki Heavy Industries, Ltd.). Electric machine arrangement combining electromagnetic coupling with electric rotating machine. 3,683,249, 8-8-72, Cl. 318-205.000.

Shibata, Hiroshi; and Morita, Tomijiro, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for production of sodium sulfite. 3,649,181, 3-14-72, Cl. 23-129.

Shibata, Hiroshi; Morita, Tomijiro; and Nakano, Satoshi, to Kureha Kagaku Kogyo Kabushiki Kaisha. Production of sodium carbonate. 3,653,819, 4-4-72, Cl. 23-63.

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Sias, Roy C., to Continental Oil Company. Process for preparing barium-containing dispersion. 3,691,075, 9-12-72, Cl. 252-33.000.

Sias, Roy C., to Continental Oil Company. Preparation of oil soluble sulfonic acids useful as dispersant additives. 3,703,475, 11-21-72, Cl. 252-353.000.

Sibakin, Jaroslaw George; Roeder, Gordon Alan; and Hookings, Paul Henry Heathcote, to Steel Company of Canada Limited, The and Metallgesellschaft Aktiengesellschaft. Electric-arc steelmaking. 3,690,867, 9-12-72, Cl. 75-12.000.

Sibbett, Donald J.: *See—*
Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald J.; and Sutherland, David C., 3,640,624.
Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald J.; and Sutherland, David C., 3,659,100.
Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald, J.; and Sutherland, David C., 3,700,896.
Moyer, Rudolph H.; and Sibbett, Donald J., 3,663,374.

Sibert, Frederick J., to Nalco Chemical Company. Process for making alumina. 3,681,012, 8-1-72, Cl. 23-143.000.

Sibeud, Jean Paul, to Automobiles M. Berliet. Method for determination of performance of a vehicle engine. 3,657,922, 4-25-72, Cl. 73-117.3.

Sibgatulin, Kharis Malikovich: *See—*
Leep, Vladimir Romanovich; Sibgatulin, Kharis Malikovich; and Cherkasov, Jury Nikolaevich, 3,688,181.

Sibilia, Alfred F. Two-part cartridge magazine. 3,676,946, 7-18-72, Cl. 42-50.000.

Sibilia, John P.; Woolf, Cyril; and Frank, John, to Allied Chemical Corporation. Process for preparing α,τ-bis (fluoroperhaloisopropoxy) perfluoroalkanes. 3,657,362, 4-18-72, Cl. 260-615.

Sibley, David L. Well screens. 3,638,726, 2-1-72, Cl. 166-236.

Sibley, Henry C., to General Signal Corporation. Detection of end zones in alternating track circuits. 3,663,809, 5-16-72, Cl. 246-34.

Sibley, Henry C., to General Signal Corporation. Track communication system for continuous rail. 3,666,217, 5-30-72, Cl. 246-34.

Sibley, Henry C., to General Signal Corporation. Combined high and low frequencies for track circuit. 3,670,161, 6-13-72, Cl. 246-40.000.

Sibley, John W.: *See—*
Fischer, John J.; and Sibley, John W., 3,685,805.

Sibley, Joseph F., to Pennwalt Corporation. Compacting press. 3,664,784, 5-23-72, Cl. 425-78.

Sibley, Richard D.: *See—*
Domyan, Frank F.; Lantz, Joseph C.; and Sibley, Richard D., 3,675,650.

Sibley, William J., to National Blank Book Company, Inc. Method of producing photograph album leaf of closed pocket construction. 3,642,552, 2o15-72, Cl. 156-108.
Sibul, Leon H.: *See—*
Ayres, Dwight T.; and Sibul, Leon H., 3,662,187.
Siby, Sture, to Allmanna Svenska Elektriska Aktiebolaget. Bill indicator and the like. 3,688,886, 9-5-72, Cl. 194-4.00r.
Sicard, L. John; and Foster, Christopher G., to United States of America, Navy. VLF Atmospheric noise synthesizer. 3,638,123, 1-25-72, Cl. 325-132.
Sicard, Marcel Clarence, to AMF Incorporated. Process for making fluid filters having improved properties. 3,648,846, 3-14-72, Cl. 210-494.
Sicard, Marcel Clarence, to AMF Incorporated. Filtration apparatus. 3,674,154, 7-4-72, Cl. 210-456.000.
Sicher, Frederic A.: *See—*
Sicher, Frederic A.; and Gaysowski, Joseph (said Gaysowski assor. to said), 3,667,373.
Sicher, Frederic A.; and Gaysowski, Joseph, said Gaysowski assor. to said Sicher, Frederic A. Automatic machine for vending fried foods. 3,667,373, 6-6-72, Cl. 99-407.
Siciliano, Anthony J.: *See—*
Keen, Everett M.; and Siciliano, Anthony J., 3,641,983.
Sick, Erwin, Firma: *See—*
Gleixner, Franz, 3,678,281.
Langenbach, Erwin; and Erdmann, Jurgen, 3,631,901.
Sickel, Hans-Werner, to Hesterberg, F., & Sohne, Firma. Turning bolt locking device for transport vehicles. 3,664,695, 5-23-72, Cl. 292-54.000.
Sickels, David W.; and Sills, Robert E., to Electrogenics, Inc. Electrochemical deburring apparatus. 3,645,877, 2-29-72, Cl. 204-224.
Sickels, David W., to Electrogenics, Inc. Electrochemical machining apparatus. 3,658,684, 4-25-72, Cl. 204-275.
Sickels, David W., to Electrogenics, Inc. Method for electrochemical deburring. 3,705,843, 12-12-72, Cl. 204-129.500.
Sickinger, Hans, Company: *See—*
Pfaffle, Ernst, 3,690,475.
Sickles, James E., to Ransburg Electro-Coating Corporation. Spray charging device. 3,698,635, 10-17-72, Cl. 239-3.000.
Sickles, John S., to Syntex Corporation. Veterinary compositions and methods. 3,651,227, 3-21-72, Cl. 424-238.
Siclari, Francesco; Perazzoni, Pierluigi; and Silvestroni, Piergiorgio, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Production of spinnable polyamides exhibiting a high regularity and a high dyeability by acidic dyestuffs. 3,632558, 1-4-72, Cl. 260-78.
Siclari, Francesco; and Magnoni, Franco, to Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A. Process and equipment for the continuous production of polyesters. 3,644,294, 2-22-72, Cl. 260-75.
Siclari, Francesco; Horak, Edgardo; and Rosso, Mario, to SNIA Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. and Kanegafuch Boseki Kabushiki Kaisha. Method for the production of polyesters, more particularly linear polyalkylene terephthalaes, and catalyst employed therefor. 3,682,864, 8-8-72, Cl. 260-75.00r.
Siclari, Francesco; Rossi, Pietro Paolo; Calgari, Seba; and Jacuone, Roberto, to Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A. Method for the production of acrylonitrile polymers and copolymers. 3,700,631, 10-24-72, Cl. 260-85.500.
Siconolfi, James R., to Weinschel Engineering Co., Inc. Data normalizer for microwave measurement outputs. 3,633,097, 1-4-72, Cl. 324-58.
Sidaris, Nickolas J.: *See—*
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Sidaris, Nickolas J., to Honeywell Inc. Manifold gas valve. 3,688,981, 9-5-72, Cl. 236-80.000.
S.I.D.A.R.O. Societe Industrielle de Dispositifs Automatiques Robomatic: *See—*
Weymann, Charles Terres, 3,667,577.
Siddall, Don F.; and Hoffman, Vincent L., to Norton Company, The. Milking inflations. 3,661,120, 5-9-72, Cl. 119-14.49.
Siddall, Earl D., 1/4 to Howell-Younes, Helen and 1/4 to Wright, Marie K. Internally driven stop nut. 3,648,549, 3-14-72, Cl. 81-90.
Siddall, John B.: *See—*
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Calame, Jean Pierre; and Siddall, John B., 3,669,997.
Henrick, Clive A.; and Siddall, John B., 3,692,851.
Henrick, Clive A.; and Siddall, John B., 3,697,560.
Henrick, Clive A.; and Siddall, John B., 3,697,561.
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Henrick, Clive A.; and Siddall, John B., 3,706,733.
Zurfluh, Rene C.; and Siddall, John B., 3,701,800.
Siddall, John B., to Zoecon Corporation. Methylenedioxy benzene ethers. 3,637,752, 1-25-72, Cl. 260-340.5.
Siddall, John B., to Zoecon Corporation. Quaternary alkylated aliphatic amides. 3,649,590, 3-14-72, Cl. 260-404.
Siddall, John B., to Zoecon Corporation. 1-(3', 7'-Dimethyloct-6'-enyloxy)-3,4-methylenedioxybenzenes and the 6', 7'-expoxy derivatives thereof. 3,649,646, 3-14-72, Cl. 260-340.5.
Siddall, John B., to Zoecon Corporation. $\alpha\sim\beta$-Unsaturated quaternary alkylated fatty acids and esters useful for insect control. 3,651,104, 3-21-72, Cl. 260-410.9.
Siddall, John B., to Zoecon Corporation. Oxygenated unsaturated aliphatic carboxylic acids and esters. 3,655,700, 4-11-72, Cl. 260-405.
Siddall, John B.; and Calame, Jean Pierre. 11-Halo-10-oxo-3,7,11-trialkyl-2-alkenoic and 2,6-alkadienoic acids and esters thereof. 3,669,996, 6-13-72, Cl. 260-408.000.
Siddall, John B.; and Calame, Jean Pierre, to Zoecon Corporation. Novel esters and derivatives. 3,671,558, 6-20-72, Cl. 260-410.90r.
Siddall, John B., to Zoecon Corporation. Photochemical process for preparing a bicyclic lactone. 3,674,663, 7-4-72, Cl. 204-158.00r.
Siddall, John B., to Zeocon Corporation. Acyl fluorides. 3,679,720, 7-25-72, Cl. 260-408.000.
Siddall, John B., to Zoecon Corporation. Epithio aliphatic ketones for the control of insects. 3,681,385, 8-1-72, Cl. 260-327.00e.
Siddall, John B.; and Calame, Jean Pierre, to Zoecon Corporation. Hydrocarbon phosphonates. 3,694,526, 9-26-72, Cl. 260-956.000.
Siddall, John B., to Zoecon Corporation. 2,3-Cycloethylene-3-methylpentano-5-lactone. 3,697,549, 10-10-72, Cl. 260-343.20r.
Siddall, John B., to Zoecon Corporation. Tetraalkyl substituted unsaturated acids and esters having a terminal quaternary alkyl group useful for insect control. 3,697,565, 10-10-72, Cl. 260-408.000.
Siddall, John B., to Zoecon Corporation. Insect control. 3,700,694, 10-24-72, Cl. 260-343.600.
Siddall, John B., to Zoecon Corporation. Boll weevil sex attractant. 3,700,696, 10-24-72, Cl. 260-343.500.
Siddall, John B., to Zoecon Corporation. Quaternary alkyl aliphatic ketones. 3,706,804, 12-19-72, Cl. 260-593.00r.
Siddiqui, Nadeem U.: *See—*
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Siddon, Thomas E.: *See—*
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Siddons, John Royston. Internal combustion engine. 3,648,670, 3-14-72, Cl. 123-43.
Siddons, Phillip Thomas: *See—*
Mc Corquodale, Hugh; and Siddons, Phillip Thomas, 3,689,483.
Siddons, Phillip Thomas, to Glaxo Laboratories Limited. Recovery of pure cephalexin. 3,676,437, 7-11-72, Cl. 260-243.00c.
Sidel: *See—*
Wagner, Claude Julien Rene, 3,689,189.
Sidel, Le Havre: *See—*
Blanchard, Hunert, 3,667,888.
Sidel, Societe Anonyme: *See—*
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Sidelman, Abraham. Chignon foundation. 3,693,637, 9-26-72, Cl. 132-55.000.
Siderpatents, S.A.: *See—*
Crespi, Giovanni, 3,662,058.
Siderugica Occidental C.A.: *See—*
Saytes, Adam Eric, 3,698,224.
Sidhu, Mohanjit S.: *See—*
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Landis, Donald E.; and Sidhu, Mohanjit S., 3,702,585.
Landis, Donald E.; Sidhu, Mohanjit S.; and Cone, Richard E., 3,703,903.
Sidi, Henri, to Tenneco Chemicals, Inc. Trialkylhydrazinomethylphenyl N-alkyl carbamates. 3,649,670, 3-14-72, Cl. 260-479.
Sidline, George B., to Ampex Corporation. Apparatus for transporting a recording medium for storing information. 3,641,504, 2-8-72, Cl. 340-172.5.
Sidline, George B., to Ampex Corporation. Transport controller. 3,681,523, 8-1-72, Cl. 178-6.60a.
Sidney, Fisher L. Suspended staging incorporating automatic welding equipment. 3,681,565, 8-1-72, Cl. 219-126.000.
Sidorchuk, Svetlana Efimovna: *See—*
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Sidorov, Oleg Pavlovich; Ryabtsev, Pavel Sergeevich; and Lastochkin, Rostislav Ivanovich; deceased (by Lastochkina, Nadezhda Andreevna; and by Lastochkina, Tatyana Rostislavovna; administrators). Dynamo-electric machine. 3,675,102, 7-4-72, Cl. 310-266.000.
Sidorsky, Mikhail Andreevich: *See—*
Bezugly, Stanislav Leontievich; Sidorsky, Mikhail Andreevich; and Kutlyar, Vladimir Petrovich, 3,686,559.
Sidwell, Alfred E.: *See—*
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Sie, Tjwan Khing; and Post, Hendrik Alle. Flexibly deformable stopper for a hypodermic syringe. 3,695,478, 10-3-72, Cl. 215-52.000.
Siebe Gorman & Company Limited: *See—*
Cheffers, Stanley John; and Glynn, Michael Harvey, 3,669,109.
Richards, Brian John, 3,677,267.
Siebecker, Hans; Wichmann, Gunter; and Kurotschka, Georg, to Eltro GmbH & Co. Optical electronic process and apparatus for

recording temperature pictures. 3,706,886, 12-19-72, Cl. 250-83.3hp.
Siebelist, Hilbert R., to United States of America, Atomic Energy Commission. Coaxial cable connector. 3,678,446, 7-18-72, Cl. 339-177.00e.
Sieber, Adolf, to Sulzer Brothers Limited. Irradiation apparatus with a rotary lock and with cams to move objects to be irradiated. 3,686,502, 8-22-72, Cl. 250-52.000.
Sieber, Charles: *See—*
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Sieber, Johannes Helmut: *See—*
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Sieber, Johannes Helmut, to Bowe, Bohler & Weber KG Maschinenfabrik. Process for the chemical treatment of textile goods. 3,701,625, 10-31-72, Cl. 8-94.000.
Sieber, Paul, to Licentia Patent-Verwaltungs-G.m.b.H. Contactless switch using magnetic diodes. 3,657,576, 4-18-72, Cl. 307-309.
Sieber, Paul. Pulse generator. 3,665,207, 5-23-72, Cl. 307-106.
Sieber, Paul; and Kuhlmann, Joachim. Commutating device for brushless motor including magnetic diodes. 3,688,172, 8-29-72, Cl. 318-254.000.
Siebers, Aloysius F. Front wheel mounting for bicycles. 3,694,004, 9-26-72, Cl. 280-277.000.
Siebers, Holger, to Landis & Gyr AG. Controlled hysteresis integrated circuit switching circuit. 3,679,916, 7-25-72, Cl. 307-290.000.
Siebert, Alan R., to Goodrich, B. F., Company, The. Preparation of hydroxyl terminated polymers. 3,699,153, 10-17-72, Cl. 260-484.00r.
Siebert, Hans Joachim; and Neelen, Gregorius Theodorus Maria, to U.S. Philips Corporation. Seal for piston-cylinder assembly. 3,667,349, 6-6-72, Cl. 92-83.000.
Siebert, Raymond C., to Ampex Corporation. Vidicon tube carriage. 3,659,045, 4-25-72, Cl. 178-7.92.
Siebert, William, Jr.: *See—*
Jones, Robert C.; and Siebert, William, Jr., 3,706,099.
Sieblist, Hans Werner: *See—*
Richter, Wolfgang Max Egon; Lab, Edgar; and Sieblist, Hans Werner, 3,668,959.
Siebol, George, to Olympic Screw & Rivet Corporation. Rivet. 3,657,957, 4-25-72, Cl. 85-77.
Siebol, George; and Rippy, Dorian E., to Olympic Screw & Rivet Corporation. Method of setting a lockbolt. 3,680,202, 8-1-72, Cl. 29-520.000.
Sieburg Industries Incorporated: *See—*
Citrin, Paul Stuart; and Gurski, Frank Joseph, Jr., 3,687,731.
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Sieckhaus, John F.: *See—*
Kwasnik, Herbert R.; Sieckhaus, John F.; and Knollmueller, Karl O., 3,637,589.
Siedband, Melvin P.: *See—*
Duffy, Philip A., Jr.; and Siedband, Melvin P., 3,633,029.
Siedband, Melvin P.; and James, Jack L., to CGR Medical Corporation, mesne. Heat sensing circuit. 3,634,871, 1-11-72, Cl. 317-40.
Siedband, Melvin P.; Duffy, Philip A., Jr.; and James, Jack L., to CGR Medical Corporation, mesne. X-ray tube control circuitry. 3,675,020, 7-4-72, Cl. 250-93.000.
Siedel, Henele Elise, nee Graf: *See—*
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Siedel, Watter: *See—*
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Sieet, George E.: *See—*
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Siefert, August C., to Owens-Corning Fiberglas Corporation. Method of making impact resistant inorganic composites. 3,702,240, 11-7-72, Cl. 65-4.000.
Siefert, George J., to Goodyear Tire & Rubber Company, The. Device for measuring stress in metal tire cords. 3,662,596, 5-16-72, Cl. 73-143.000.
Siefert, Roland: *See—*
Haag, Albrecht; and Siefert, Roland, 3,686,885.
Sieg, Robert P.: *See—*
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Sieg, Robert P., to Chevron Research Company. Disproportionation and isomerization for isopentane production. 3,676,522, 7-11-72, Cl. 260-683.650.
Sieg, William F. Simulated walker, jogger, and running exerciser. 3,641,601, 2-15-72, Cl. 5-345.
Siegal, Burton L.: *See—*
Stelling, Walter R., Jr.; Siegal, Burton L.; and Talbott, Michael M., 3,655,475.
Varon, Albert S.; and Siegal, Burton L., 3,685,662.
Siegal, Burton L.; and Herndon, Steve; deceased (by Herndon, Nancy; executrix), said Siegal assor. to Orbitex, Inc. Laminating method for honeycomb. 3,637,448, 1-25-72, Cl. 156-197.
Siegal, Burton L., to Orbitex, Inc. Method of making honeycomb core. 3,655,476, 4-11-72, Cl. 156-197.
Siegal, Burton L., to American Cutting & Binding Co. Flagging roll holder and dispenser. 3,693,853, 9-26-72, Cl. 225-58.000.
Siegal, Burton L., to Conco Inc. Conduit cleaning apparatus. 3,706,110, 12-19-72, Cl. 15-104.3sn.
Siegart, William R.: *See—*
Bialy, Jerzy J.; Siegart, William R.; Blackley, William D.; and Chafetz, Harry, 3,652,238.
Patmore, Edwin L.; Siegart, William R.; and Chafetz, Harry, 3,658,874.
Patmore, Edwin L.; Siegart, William R.; and Chafetz, Harry, 3,689,539.
Patmore, Edwin L.; Siegart, William R.; and Chafetz, Harry, 3,692,826.
Patmore, Edwin L.; Siegart, William R.; and Chafetz, Harry, 3,696,146.
Siegel, Arthur R., to International Business Machines Corporation. Unitary electro-optic array device making process. 3,704,512, 12-5-72, Cl. 29-572.000.
Siegel, Bernard: *See—*
Johnson, Richard L.; and Siegel, Bernard, 3,634,040.
Siegel, Edgar: *See—*
Horstmann, Walter; Kalz, Dietmar; Wolfrum, Gerhard; and Siegel, Edgar, 3,634,388.
Horstmann, Walter; Kalz, Dietmar; Wolfrum, Gerhard; and Siegel, Edgar, 3,644,405.
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Siegel, Edgar; and Sasse, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Azo dyestuffs. 3,666,747, 5-30-72, Cl. 260-154.
Siegel, Edgar, to Farbenfabriken Bayer Aktiengesellschaft. Phenylazo-phenol dyestuffs. 3,674,771, 7-4-72, Cl. 260-206.000.
Siegel, Eric J. Video color synthesizer. 3,647,942, 3-7-72, Cl. 178-5.4.
Siegel, Harold B., to Pharmacare, Inc. Unit dose device. 3,692,228, 9-19-72, Cl. 229-29.00f.
Siegel, Harvey V., to General Electric Company. Metal foil lead manufacture. 3,691,654, 9-19-72, Cl. 29-25.180.
Siegel, Herman M., to Lowe, E. S., Company, Inc. Drawing device. 3,699,660, 10-24-72, Cl. 33-174.00b.
Siegel, Joel, to Holophane Company, Inc. Luminaire. 3,654,455, 4-4-72, Cl. 240-93.
Siegel, Joel S. Checkout counters. 3,656,587, 4-18-72, Cl. 186-1.
Siegel, Karlheinz. Bag of plastics material sheeting. 3,633,642, 1-11-72, Cl. 150-3.
Siegel, Martin, to Datel Corporation. Magnetic switch assembly for coding information. 3,648,817, 3-14-72, Cl. 197-19.
Siegel, Matthew. Fluid distribution apparatus preserving alignment of longitudinal axes of flow. 3,643,580, 2-22-72, Cl. 98-40.
Siegel, Matthew. Fluid distribution apparatus preserving alignment of longitudinal axes of flow. 3,693,531, 9-26-72, Cl. 98-40.00c.
Siegel, Maxwell E.: *See—*
Rapoza, Edward J.; Siegel, Maxwell E.; Estelle, Weems E.; Petrucci, Pasquale M.; Linarducci, Joseph S.; Hamma, John; and Montgomery, John, 3,706,499.
Siegel, Maxwell E.; Rapoza, Edward J.; and Chevalaz, Roger A., to Becton, Dickinson and Company. Serological incubator. 3,634,651, 1-11-72, Cl. 219-400.
Siegel, Morton A., to Kinesonic Industries Ltd. Audio-visual device. 3,692,390, 9-19-72, Cl. 352-17.000.
Siegel, Phil. Packaging device. 3,645,067, 2-29-72, Cl. 53-124.
Siegel, Sidney. Disposable food-vending package. 3,694,235, 9-26-72, Cl. 99-171.00b.
Siegel, Vernon H.: *See—*
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Siegel, Vernon H., to Sundstrand Data Control Inc., mesne. Pressure transducer with reduced temperature sensitivity. 3,673,443, 6-27-72, Cl. 310-8.700.
Siegel, William Jordan. Tool holder. 3,705,680, 12-12-72, Cl. 228-57.000.
Siegele, Frederick Herman, to American Cyanamid Company. Copolymers of fumaric acid and allyl sulfonic acid. 3,706,717, 12-19-72, Cl. 260-78.50r.
Siegele, James E.: *See—*
Meyer, Leonard; Ashton, Walter G.; and Siegele, James E., 3,701,177.
Siegelin, Werner: *See—*
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Sieger, George Madison; Krueger, James Elwood; and Barringer, William Charles, to American Cyanamid Company. Aluminum calcium gluconate complex of tetracycline antibiotic for parenteral use. 3,642,991, 2-15-72, Cl. 424-227.
Sieger, Maurice Paul, to United Engineering and Foundry Company. Casting apparatus with means for removing ingot on bottom mold element. 3,640,334, 2-8-72, Cl. 164-269.
Siegerist, Walter L., to Meeco, Inc. Adjustable guide holder assembly. 3,706,214, 12-19-72, Cl. 72-99.000.
Siegfried Aktiengesellschaft: *See*—
Ritschel, Wolfgang A.; Fischer, Johanna; Jahn, Ulrich; and Wagner-Jauregg, Theodor, 3,639,623.
Siegfried, Edward C.; Harwell, Conner J.; and Murphy, Shields; deceased (by Friley, Paul B.), to Dickey, W. S., Clay Manufacturing Company. Apparatus for ram forming monolithic plastic articles. 3,677,687, 7-18-72, Cl. 425-457.000.
Siegfried, Hansen, to Hughes Aircraft Company. Gravity gradient meter. 3,668,932, 6-13-72, Cl. 73-382.000.
Siegfried, Raith. Method to measure mirror deflection. 3,690,770, 9-12-72, Cl. 356-152.000.
Siegfried, Sommer: *See*—
Lederer, Michael; and Siegfried, Sommer, 3,696,085.
Siegfried, William: *See*—
Miller, Aaron; and Siegfried, William, 3,645,705.
Sieghartner, Leonard J., to Roth, Roy E., Company. Liquid booster device. 3,661,474, 5-9-72, Cl. 415-143.
Sieghartner, Leonard J., to Roth, Roy E., Company. Cooling and lubricating system for bearings. 3,690,410, 9-12-72, Cl. 184-6.280.
Siegla, Donald C., to General Motors Corporation. Infrared surface heating unit. 3,646,321, 2-29-72, Cl. 219-464.
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Sierad, Theodore B., to Brudenell Corporation, The. Process of coating glass with durable coatings and resulting products. 3,645,777, 2-29-72, Cl. 117-71.

Siergiej, John M.: *See—*
Abkowitz, Stanley; Siergiej, John M.; and Regan, Ronald D., 3,681,037.
Abkowitz, Stanley; Siergiej, John M.; and Regan, Ronald D., 3,700,434.

Sierichs, William C.: *See—*
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Sierk, Raymond H.; and Sierk, Raymond W., to Atomatic Swank Frank Corporation. Magazine for dispensing machine. 3,698,601, 10-17-72, Cl. 221-105.000.

Sierk, Raymond W.: *See—*
Sierk, Raymond H.; and Sierk, Raymond W., 3,698,601.

Sieron, Richard L., to Dual-Lite Company. Fail-safe solid-state emergency lighting power supply and transfer circuit. 3,684,891, 8-15-72, Cl. 307-66.000.

Sieron, Richard L., to Dual-Lite Company. Low electrolyte level alarm devices. 3,696,362, 10-3-72, Cl. 340-244.00c.

Sierra Electric, Inc.: *See—*
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Sierra Engineering Co.: *See—*
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Sierra, Gonzalo, to Ontario Research Foundation. Sterilization with glutaraldehyde. 3,697,222, 10-10-72, Cl. 21-54.00a.

Sierra, Hugh M., to International Business Machines Corporation. Apparatus and method for obtaining the reciprocal of a number and the quotient of two numbers. 3,648,038, 3-7-72, Cl. 235-164.

Sierra Pacific Industries: *See—*
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Sierra, Rafael B. Biopsy needle with eccentrically-mounted cutting tip. 3,705,577, 12-12-72, Cl. 128-2.00b.

Sierra Research Corporation: *See—*
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Wood, Edward C., 3,635,640.

Siesennop, W. Wayne; Gibbs, Norman E.; and Bartz, Edward S., to Rex Chainbelt Inc. Hydraulic pump or motor. 3,695,147, 10-3-72, Cl. 91-498.000.

Sieson, Roy C., Jr.: *See—*
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Sietmann, Vernon H. Auxiliary roof structure for grain drying bins. 3,686,802, 8-29-72, Cl. 52-15.000.

Sieurin, Donald, to Morgan Construction Company. Roll changing apparatus. 3,675,456, 7-11-72, Cl. 72-239.000.
Sieurin, Donald, to Morgan Construction Company. Shear mechanism. 3,677,120, 7-18-72, Cl. 83-343.000.
Sievenpiper, Donald A., to A-T-O Inc. Regeneration valve. 3,654,835, 4-11-72, Cl. 91-436.
Sievenpiper, Ward, to A-T-O Inc. Rod wiper. 3,655,204, 4-11-72, Cl. 277-24.
Sievers, Carl, Firma: *See—*
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Sievers, David L.: *See—*
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Sifri, Elie C.; and Wu, Steve W. H., to Cascade Corporation. Spring-loaded seal with symmetrical cross section. 3,653,670, 4-4-72, Cl. 277-164.
Sifri, Elie C.; and Shibahara, Matthew, to Cascade Corporation. Fluid bypass valve. 3,654,834, 4-11-72, Cl. 91-399.
Sigagoose, Glen. Model airplane and method of assembling same. 3,699,706, 10-24-72, Cl. 46-78.000.
Sigerist, Carl, & Cie Schaffhausen: *See—*
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Sigg, Hans-Peter: *See—*
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Sigg, Hans-Peter; and Stoll, Christian, to Sandoz Ltd.; a/k/a Sandoz A.G. Epoxides. 3,659,005, 4-25-72, Cl. 260-348.
Siggel, Erhard; Kersten, Hilde; and Meyer, Gerhard, to Glanzstoff AG. Aromatic bis-(2,4-dihydroxypyridine) compounds. 3,682,929, 8-8-72, Cl. 260-288.00r.
Siggers, Reuben A. Insect swatter. 3,648,402, 3-14-72, Cl. 43-137.
Siggins, James E., to Sterling Drug Inc. Esters of substituted glyoxylic acids. 3,657,325, 4-18-72, Cl. 260-483.
Siggson, Jack J. Arm stabilizing device for golfers. 3,658,345, 4-25-72, Cl. 273-189.00a.
Sigiyama, Hiroshi; Ikeda, Takuo; and Itani, Takashi, to Sumitomo Chemical Company, Ltd. Reactive phthalocyante dyes containing an arylureamethylene group. 3,647,827, 3-7-72, Cl. 260-372.
Sigl, Jon D. Ski with inclined boot platform. 3,675,938, 7-11-72, Cl. 280-11.35c.
Sigl, Jon D. Portable arrow checking device. 3,700,940, 10-24-72, Cl. 310-66.000.
Siglin, David L.: *See—*
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Siglow, Joachim, to Siemens Aktiengesellschaft. Circuit arrangement for level supervision in transmission systems with frequency-or phase moduation. 3,663,834, 5-16-72, Cl. 307-235.
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Sakatos, Michael, 3,707,690.
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Weagant, William D., 3,641,253.
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Sigmon, Bernard E., to Sperry Rand Corporation. Temperature stable negative resistance diode coaxial cavity energy converter operating in an anti-resonant mode. 3,644,843, 2-22-72, Cl. 331-101.
Sigmon, Bernard E., to Sperry Rand Corporation. Negative resistance diode coaxial cavity oscillator with resistor for suppression undesired modes. 3,704,429, 11-28-72, Cl. 331-101.000.
Sigmund, Franck, to Industriele Onderneming Wavin N.V. Thermally insulated pipe. 3,685,546, 8-22-72, Cl. 138-141.000.
Sigmund, Gerhard, to Daimler-Benz Aktiengesellschaft. Slide shoe structures of synthetic plastic material for sliding roofs of motor vehicles. 3,671,997, 6-27-72, Cl. 16-93.000.
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Kipps, Harry J.; and Doniguian, Thaddeus M., 3,692,650.
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Jackson, Charles L., 3,701,019.
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Signetics Corporation: *See—*
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Ball, James V., 3,659,224.
Camenzind, Hans R., 3,663,223.
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Campbell, Eugene H.; and Kane, James F., 3,654,623.
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Kleitman, David; Russell, Lewis K.; and Grebene, Alan B., 3,669,666.
Kocsis, Joseph; and Cauge, Thomas Peter, 3,675,092.
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Mattis, John A., 3,683,270.
Read, Benjamin Hays; and Black, Rexford E., 3,703,458.
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Frey, Robert J., 3,679,519.
Howard, Frank C., 3,653,299.
Lems, Peter, 3,675,388.
Meier, William A., 3,653,334.
Melsek, Norbert J., 3,675,765.
Plunkett, Larry D.; and Massion, Robert J., 3,662,777.
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Wolfberg, Robert L.; and Bojan, Paul W., 3,653,117.
Signor, Gary R.: *See—*
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Sigri Elektrographit Gesellschaft mit beschrankter Haftung: *See—*
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Sigrist, Hugo, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Loading tray for a rocket. 3,640,179, 2-8-72, Cl. 89-1.801.
Sigsbee, Raymond A.; and Wilson, Ronald H., to General Electric Company. Storage target for an electron-beam addressed read, write and erase memory. 3,693,003, 9-19-72, Cl. 313-68.00r.
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Sihvo, Tuomo Jorma Heikki. Float for seamarks, buoys, pontoons and the like. 3,680,160, 8-1-72, Cl. 9-8.000.
Siiberg, Hemming G., to Wagner Electric Corporation. Voltage and load independent flasher unit. 3,705,318, 12-5-72, Cl. 307-132.00t.
Siimes, Timo. Fire extinguisher. 3,662,836, 5-16-72, Cl. 169-31.
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Sijbring, Pieter Herman, to Instituut Voor Bewaring en Verwerking van Landbouwprodukten. Method and apparatus for thermally treating vegetative materials. 3,636,939, 1-25-72, Cl. 126-271.2.
Sijbring, Pieter Herman, to Instituut voor Bewaring en Verwerking van Landbouwprodukten. Oven for frying edible products, such as potato chips. 3,641,924, 2-15-72, Cl. 99-406.
Sijbring, Pieter Herman, to Instituut voor Bewaring en Verwerking van Landbouwprodukten. Process for preparing fried starch products. 3,687,679, 8-29-72, Cl. 99-1.000.

Sika Chemical Corporation: *See—*
Kinneman, William P., Jr.; and Uram, John R., Jr., 3,639,344.
Sikes, John. Plate connected structural member construction for building walls. 3,683,576, 8-15-72, Cl. 52-250.000.
Sikes, John. Structural member construction for building walls. 3,698,147, 10-17-72, Cl. 52-276.000.
Sikes, Robert L. F. Gun holding device. 3,706,403, 12-19-72, Cl. 224-1.00r.
Sikkema, Andrew J.: *See—*
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Sikkema, Eeme, to New Zealand Inventions Development Authority, The. Methods and means for the transportation of goods. 3,651,613, 3-28-72, Cl. 53-24.
Siklos, Gregory, to Marbelite Company, Inc., The. Central traffic signal control. 3,662,331, 5-9-72, Cl. 340-40.
Siklos, Gregory, to Marbelite Company, Inc., The. Vehicle detection apparatus. 3,665,382, 5-23-72, Cl. 340-38.
Siklos, Gregory,; and Rudden, James B., to Marbelite Company, Inc., The. Central traffic signal control. 3,670,302, 6-13-72, Cl. 340-40.000.
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Sikorsky, Michael F., to Bell Telephone Laboratories, Incorporated. Multiple timing list arrangement. 3,633,181, 1-4-72, Cl. 340-172.5.
Sikorsky, Michael Frank; and Voigt, Herman Ewald, to Bell Telephone Laboratories, Incorporated. Information filter and steering circuit. 3,632,889, 1-4-72, Cl. 179-27.
Siksai, Anthony. Turn signal indicating system. 3,676,845, 7-11-72, Cl. 340-87.000.
Silagy, Richard J., to Weatherhead Company, The. Combination brake warning switch and proportioning valve. 3,667,810, 6-6-72, Cl. 303-6.00c.
Silas, Robert S., to Phillips Petroleum Company. Portable air pollution detector. 3,653,840, 4-4-72, Cl. 23-230.
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Silbert, Leonard S.; and Swern, Daniel. Process for the preparation of alkyl and aryl iodine. 3,647,893, 3-7-72, Cl. 260-646.
Silbert, Leonard S., to United States of America, Agriculture. Process for the preparation of alkyl, perfluoroalkyl and aryl iodides. 3,652,682, 3-28-72, Cl. 260-612.
Silbert, Leonard S., to United States of America, Agriculture. Process for the preparation of alkyl, perfluoroalkyl and aryl iodides. 3,666,820, 5-30-72, Cl. 260-653.000.
Silbiger, Jakob: *See—*
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Siler, William J. Pool rink conversion kit. 3,639,921, 2-8-72, Cl. 4-172.11.
Silfvast, William Thomas: *See—*
Klein, Marvin Bertrand; and Silfvast, William Thomas, 3,694,767.
Silfverlin, Ade William, to Sandvikens Jernverks Aktiebolag. Laminated packing material with spaced parallel reinforcing members. 3,668,049, 6-6-72, Cl. 161-38.000.
Silhavy, Raymond J.: *See—*
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Silken, Howard. Doweling jig. 3,674,376, 7-4-72, Cl. 408-115.000.
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Sill, Arthur D.; and Fleming, Robert W., to Richardson-Merrell Inc. Fluorene bis-basic esters. 3,647,860, 3-7-72, Cl. 260-475.
Sillano, Pietro, to Necchi S.p.A. Speed control device for sewing machines. 3,693,063, 9-19-72, Cl. 318-337.000.
Sillaots, Argo Alexandrovich: *See—*
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Siller, Imre, to Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig. Tape recorder with pointer drive. 3,661,394, 5-9-72, Cl. 274-4.00c.
Siller, Imre, to Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig. Tape recorder and cassette for magnetic tape. 3,705,699, 12-12-72, Cl. 242-199.000.
Silliker, John H.: *See—*
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Sills, Stanley Albert, to Imperial Chemical Industries Limited. Molten adhesives containing polymide and polyvinyl alcohol. 3,705,207, 12-5-72, Cl. 260-857.000.
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Silsby, Stanley D., to United States of America, Army. Large capacity magazine. 3,672,089, 6-27-72, Cl. 42-50.000.
Silva, Antonio Vicente. Control system for tandem rolling mill based on the constant volume principle. 3,688,532, 9-5-72, Cl. 72-8.000.
Silva, Antonio Vicerte, to Westinghouse Electric Corporation. Regulator system for a DC motor drive. 3,643,144, 2-15-72, Cl. 318-258.
Silva, Ren Narcisco. Continuous clarification-filtration method. 3,642,618, 2-15-72, Cl. 210-44.
Silva, Ronald L. Process of infusing liquid into settable porous material. 3,683,760, 8-15-72, Cl. 94-24.000.
Silva, Ruben. Magnetic toy. 3,675,365, 7-11-72, Cl. 46-239.000.
Silva, Walter F.: *See—*
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Silvandersson, Jonnie Thor-Leif, to AB Akerlund & Rausing. Method of and apparatus for producing a tubing from a strip of material. 3,703,252, 11-21-72, Cl. 228-15.000.
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Silver, Alexander, to Garrett Corporation, The. Hybrid bearing. 3,642,331, 2-15-72, Cl. 308-35.
Silver, Arnold H.; and Zimmerman, James E., to Ford Motor Company. Superconducting constant voltage generator. 3,696,287, 10-3-72, Cl. 323-7.000.
Silver, Arthur E., to Power Designs, Inc. Multi-range regulated DC power supply. 3,699,352, 10-17-72, Cl. 307-75.000.
Silver, David A.: *See—*
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Silver, David A.; and Bahder, George, to General Cable Corporation. Power cable with corrugated or smooth longitudinally folded metallic shielding tape. 3,651,244, 3-21-72, Cl. 174-36.
Silver, Floyd G.: *See—*
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Niemkiewicz, Ignatius John; Reinemuth, George H.; and Silver, Floyd G., 3,702,177.
Silver, Harry. Vehicle safety device. 3,633,697, 1-11-72, Cl. 180-82.
Silver, Harry. Electrical junction box. 3,659,036, 4-25-72, Cl. 174-58.
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Silver, Joseph, to Crest Ultrasonics Corporation. Load-sensitive generator for driving piezo-electric transducers. 3,668,486, 6-6-72, Cl. 318-116.000.
Silver, Jules: *See—*
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Silver, Julian, to U.S. Dynamics Inc., mesne. Method of producing a microfiche. 3,690,762, 9-12-72, Cl. 355-77.000.

Silver, Julius L., to Union Carbide Corporation. Article adapted to become a positive planographic printing plate. 3,651,170, 3-21-72, Cl. 260-838.

Silver, Julius L., to Union Carbide Corporation. Printing plate compositions. 3,657,383, 4-18-72, Cl. 260-838.

Silver Lining, Inc., mesne: *See—*
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Silver, Norman C.: *See—*
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Silver Recovery Equipment Pty., Limited: *See—*
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Silver, Robert L.; and Schmidt, Adrian J., to Triple E Corporation. Material handling box. 3,669,298, 6-13-72, Cl. 220-4.00e.

Silver, Robert Simpson, to Weiry Westgarth Limited. Multiple-stage flash evaporator. 3,684,662, 8-15-72, Cl. 202-173.000.

Silver, Robert Steven: *See—*
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Silver, Robert Steven; and Luedicke, Eduard, to RCA Corporation. Image storage system. 3,646,390, 2-29-72, Cl. 315-10.

Silver, Spencer Ferguson. Acrylate copolymer microspheres. 3,691,140, 9-12-72, Cl. 260-78.500.

Silver, Wallace E.; and Sherman, Jack, to United States of America, Navy. Apparatus for casting thin walled hollow cylindrical inserts. 3,661,047, 5-9-72, Cl. 86-1.00r.

Silvera, Isaac F.; and Vredevoe, Lawrence A., to North American Rockwell Corporation. Phonon generation handling and detection. 3,693,104, 9-19-72, Cl. 330-5.500.

Silvera, Raffaele Vittorio. Breakerless ignition system for an internal combustion engine. 3,650,260, 3-21-72, Cl. 123-148.

Silverberg, Carl G., to American Optical Corporation. All-ceramic glass making system. 3,669,435, 6-13-72, Cl. 263-40.00r.

Silverberg, Morton, to Xerox Corporation. Enclosed migration imaging system. 3,674,475, 7-4-72, Cl. 96-1.300.

Silverberg, Morton, to Xerox Corporation. Methods and apparatus for operating paired corotrons of opposite polarity. 3,675,011, 7-4-72, Cl. 250-49.5zc.

Silverglate, Jack. Apparatus for producing a rocking motion. 3,638,248, 2-1-72, Cl. 5-105.

Silverman, Arthur A.: *See—*
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Silverman, Arthur A. Coupling. 3,694,011, 9-26-72, Cl. 287-104.000.

Silverman, Bernard. Method of imparting a false twist to a thermoplastic ribbon. 3,681,912, 8-8-72, Cl. 57-157.0ts.

Silverman, Bernard A.: *See—*
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Johnson, Everett A.; and Silverman, Daniel, 3,677,465.

Silverman, Daniel, to Amoco Production Company. Tethered platform flotation. 3,654,886, 4-11-72, Cl. 114-.5.

Silverman, Daniel. Method and apparatus for everting a flexible probe into a cavity. 3,669,099, 6-13-72, Cl. 128-2.000.

Silverman, Daniel, to Pan American Petroleum Corporation. Method of increasing size of underground nuclear chimney. 3,677,342, 7-18-72, Cl. 166-247.000.

Silverman, Daniel, to Amoco Production Company. Recording elastic-wave phase holographic data. 3,678,452, 7-18-72, Cl. 340-3.00r.

Silverman, Daniel; and Treitel, Sven, to Amoco Production Company. Method and apparatus for the analysis of seismic records. 3,680,040, 7-25-72, Cl. 340-15.50r.

Silverman, Herbert P.; and Giarrusso, Gino A., to TRW Inc. Method for preparing sensors for detecting reducing vapors. 3,676,188, 7-11-72, Cl. 8-24-70.

Silverman, Herbert William, to RCA Corporation. Checking an automatic testing system. 3,665,504, 5-23-72, Cl. 324-26.000.

Silverman, Jack J. Protective shoe insert. 3,638,336, 2-1-72, Cl. 36-44.

Silverman, Lee H.; Silverman, Arthur A.; and Gaworski, Edward T., to General Wire Spring Company. Sewer augering machine. 3,691,583, 9-19-72, Cl. 15-104.35n.

Silverman, Ralph. Rapid sequential information record, storage and playback system. 3,654,625, 4-4-72, Cl. 340-173.

Silverman, Ralph H. Toothpick device. 3,672,378, 6-27-72, Cl. 132-93.000.

Silverson Machines Limited: *See—*
Love, Gordon, 3,632,227.

Silverstein, Joseph J., to Engine Power Corporation. Sealant for pneumatic tires. 3,676,381, 7-11-72, Cl. 260-17.40r.

Silverstein, Martin S.: *See—*
Stiefel, Ludwig; Silverstein, Martin S.; and Kowalick, James F., 3,706,278.

Silverstein, Ronald M., to Drew Chemical Corporation. Corrosion inhibiting processes and compositions of aliphatic amines and diquaternary diamines. 3,687,859, 8-29-72, Cl. 252-180.000.

Silverstein, Samuel; and Niemiec, Stanley. Method and apparatus for liquid curtain coating of only portions of advancing articles. 3,632,356, 1-4-72, Cl. 107-1.

Silverstone, Gerald Alfred, to Wolf, Victor, Limited. Polymerised fatty acids and their esters. 3,661,956, 5-9-72, Cl. 260-407.

Silverthorne, Clarence B., to United States of America, Army. Warhead section coupler. 3,641,937, 2-15-72, Cl. 102-56.

Silverwater, Bernard F.: *See—*
Pall, David B.; and Silverwater, Bernard F., 3,696,933.

Silvestri, Anthony J.: *See—*
Mikovsky, Richard J.; Silvestri, Anthony J.; and Smith, Robert L., 3,663,426.

Silvestri, George J., Jr., to Westinghouse Electric Corporation. Low pressure end diffuser for axial flow elastic fluid turbines. 3,690,786, 9-12-72, Cl. 415-121.000.

Silvestri, Michael A., to Sun Chemical Corporation. Process for the preparation of phosphoryl triamide. 3,685,974, 8-22-72, Cl. 23-357.00n.

Silvestri, Victor J.: *See—*
Green, James M., II; Sedgwick, Thomas O.; and Silvestri, Victor J., 3,661,636.

Silvestroni, Piergiorgio: *See—*
Siclari, Francesco; Perazzoni, Pierluigi; and Silvestroni, Piergiorgio, 3,632,558.

Silvestrov, Nikolai Demyanovich: *See—*
Silvestrov, Sergei Nikolaevich; Sinichkin, Moisei Mikhailovich; Shirokov, Grigory Ivanovich; Soloviev, Jury Filippovich; Silvestrov, Nikolai Demyanovich; and Amusin, Boris Zinovievich, 3,675,433.

Silvestrov, Sergei Nikolaevich; Sinichkin, Moisei Mikhailovich; Shirokov, Grigory Ivanovich; Soloviev, Jury Filippovich; Silvestrov, Nikolai Demyanovich; and Amusin, Boris Zinovievich. Device for constructing mines. 3,675,433, 7-11-72, Cl. 61-84.000.

Silvey, Elmer R. Saw chain grinding machine. 3,695,123, 10-3-72, Cl. 76-43.000.

Silvia, Everett R.: *See—*
Litman, Bernard; and Silvia, Everett R., 3,698,776.

Silvia, Everett R., to AMBAC Industries, Incorporated. Thrust retainer for spherical race ball bearing. 3,698,251, 10-17-72, Cl. 74-5.00r.

Silvius, Arthur Aurelius Xaverius. Connecting construction for sheet members. 3,687,500, 8-29-72, Cl. 287-189.36d.

Sim, Van M.: *See—*
Cuculis, John J.; Meyer, Howard G.; Sim, Van M.; and Sternberger, Ludwig A., 3,642,981.

Sima, Constantin: *See—*
Schwartz, Robert; Manolache, Constantin; Tannenbaum, Marcel; Vasile, Gheorghe; Rey, Vasile; Sima, Constantin; and Cambureanu, Aurel, 3,692,277.

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Simard, Guy: *See—*
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Simboli, Joseph: *See—*
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Simboli, Paul: *See—*
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Simcom Corporation: *See—*
Levasseur, Joseph L., 3,660,641.
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Simens Aktiengesellschaft: *See—*
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Simeon, Raymond: *See—*
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Simeth, Peter G.; and Seeley, Richard C., to Metrophysics, Inc. Electronic spirometer. 3,645,133, 2-29-72, Cl. 73-204.

Simich, Emil: *See—*
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Simjian, Luther G. Massaging device. 3,662,749, 5-16-72, Cl. 128-58.

Simjian, Luther G. Massaging device driven by exercise apparatus. 3,670,723, 6-20-72, Cl. 128-64.000.

Simkins, John W.: *See—*
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Simko, Aladar O.: *See—*
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Simm, Walter; and Muller, Rudolf, to Agfa-Gevaert Aktiengesellschaft. Apparatus for the electrographic recording of charge images. 3,673,598, 6-27-72, Cl. 346-74.0es.

Simmen, Fred G., to Hall China Company. Manufacture of disposable ceramic dishes from high alkali pyrophyllite. 3,655,843, 4-11-72, Cl. 264-59.

Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-Kessel- und Waggonbau: *See—*
Pelz, Friedrich, 3,665,865.

Simmler, Walter: *See—*

Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, HansrGeorg; and Simmler, Walter, 3,657,303.
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Golitz, Hans Dietrich; Merten, Rudolf; Noll, Walter; and Simmler, Walter, 3,663,586.
Golitz, Hans Dietrich; and Simmler, Walter, 3,673,233.
Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, 3,676,478.

Simmler, Walter; and Steinbach, Hans-Horst, to Farbenfabriken Bayer Aktiengesellschaft. Permanent hair waving by artificially shaping with an epoxy-organo-silane. 3,687,606, 8-29-72, Cl. 8-127.510.

Simmon, Gerhard. Flowerpot. 3,683,549, 8-15-72, Cl. 47-34.000.

Simmonds, Charles, and Trimcote Limited: *See—*
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Simmonds, Edwin Charles, to Simmonds, Charles, and Trimcote Limited. Ovens. 3,633,518, 1-11-72, Cl. 107-55.

Simmonds, Leonard B.; and Botts, John C., to Westinghouse Electric Corporation. Dynamoelectric machine with improved side fillers for coil retention. 3,679,926, 7-25-72, Cl. 310-214.000.

Simmonds, Peter G.: *See—*
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United States of America, National Aeronautics and Space Administration, 3,702,532.

Simmonds Precision Products, Inc.: *See—*
Akeley, Lloyd T., 3,656,101.
Akeley, Lloyd T., 3,702,910.
Gamble, Ralph S., 3,706,864.
Ingalls, Robert A., 3,662,613.
Knight, John H., 3,700,864.
Lamphere, David A.; and Stuart, Douglas E., 3,635,084.
Lang, Walter T., 3,696,400.
Sargent, Raymond W., 3,634,764.

Simmonds Precision Products, Inc., mesne: *See—*
Charbonneaux, Wilson A., 3,641,967.

Simmonds, Robert C., Jr.: *See—*
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Simmonds, Robert C., Jr.; and Gilbride, Andrew J., to USM Corporation. Molding machinery. 3,632,022, 1-4-72, Cl. 222-134.

Simmonds, Silas E. Method and device for removing disk brake pistons. 3,648,352, 3-14-72, Cl. 29-427.

Simmons, Alfred E., Jr., to United Aircraft Corporation. Composite coating for the superalloys. 3,649,225, 3-14-72, Cl. 29-194.

Simmons, Bjorn Herman Olof, to Aktiebolaget Bofors. Device for a flare. 3,702,588, 11-14-72, Cl. 102-35.600.

Simmons, Carl E.: *See—*
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Simmons, Clyde A.: *See—*
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Simmons, Dwane P.: *See—*
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Simmons, Edward C., to General Motors Corporation. Turbulence dampened float control. 3,643,681, 2-22-72, Cl. 137-429.

Simmons, George A., to Owens-Illinois, Inc. Glass-ceramic articles having an integral compressive stress surface layer. 3,637,453, 1-25-72, Cl. 161-43.

Simmons, James Almy; and Bell, Robert Joseph. Method for controlling stripe smut. 3,689,677, 9-5-72, Cl. 424-349.000.

Simmons, John Ernest: *See—*
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Rand, Walter Leslie; and Simmons, John Ernest, 3,671,158.

Simmons, John Richard: *See—*
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Neal, Francis John; Courtenay, Jerzy Leon; and Simmons, John Richard, 3,640,092.
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Simmons, Kenneth G.: *See—*
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Simmons, Lovel R. Elevator control for earth moving apparatus. 3,646,693, 3-7-72, Cl. 37-8.

Simmons, Marion I.: *See—*
Adams, Anthony L.; Yearsley, Gerald A.; Simmons, Marion I.; and Yager, Billy P., 3,641,660.

Simmons, Patricia L., to P & L Sales Incorporated. Contoured curler pad. 3,685,524, 8-22-72, Cl. 132-9.000.

Simmons, Ronald L.: *See—*
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Simmons, Todd S.: *See—*
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Simmons, William J., to Communications Satellite Corporation. Electronically tunable matching circuit for circulators. 3,676,803, 7-11-72, Cl. 333-1.100.

Simmons, William W., to TRW Inc. Method of an apparatus for generating ultra-short time-duration laser pulses. 3,701,956, 10-31-72, Cl. 331-94.500.

Simms, Bernard B.: *See—*
Delman, Alvin D.; Kovacs, Hanna N.; and Simms, Bernard B., 3,637,607.

Simms, Bernard B.; Stein, Alvin A.; and Larosa, Charles N., to United States of America, Navy. Method of soil stabilization. 3,696,621, 10-10-72, Cl. 61-36.00r.

Simms, Dudley V. Stable oscillator. 3,701,051, 10-24-72, Cl. 331-107.00t.

Simms Group Research and Development Limited: *See—*
Hodge, Peter Charles, 3,661,427.

Simms, Harold J., Jr., to General Motors Corporation. Apparatus for generating an angularly displaceable magnetic field. 3,671,952, 6-20-72, Cl. 340-177.000.

Simms, James B. Cam operated detachable carton handle. 3,674,300, 7-4-72, Cl. 294-31.200.

Simms, James B. Detachable bottle handle. 3,679,253, 7-25-72, Cl. 294-31.200.

Simms, James B. Cam operated detachable clamping carton handle. 3,692,346, 9-19-72, Cl. 294-31.00a.

Simms, James S. Tensioning devices. 3,703,030, 11-21-72, Cl. 29-252.000.

Simms, John A., to Du Pont de Nemours, E. I., and Company. Acrylic polymers containing epoxy radicals. 3,673,275, 6-27-72, Cl. 260-837.00r.

Simms, John Robert: *See—*
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Simms Motor Units Limited: *See—*
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Simms, Robert A.: *See—*
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Simms, Robert J.: *See—*
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Simomura, Katsuyasu, to Central Glass Co., Ltd. Method and apparatus for cutting sheet glass. 3,693,852, 9-26-72, Cl. 225-4.000.

Simon, Albert, to Compagnie de Saint-Gobain. Complex products of resin and mineral fiber and process for making said products. 3,639,202, 2-1-72, Cl. 161-158.

Simon, Albert B.: *See—*
Hampe, Walter R.; Simon, Albert B.; Hampton, William H.; and Decker, William E., 3,692,127.
Rushing, Frank C.; Gilbert, Lynford W.; and Simon, Albert B., 3,635,547.
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Auletta, Lucien V.; Kim, Yungil; and Simon, Andrew M., 3,663,415.

Simon, Edward, to Unitrade Corporation. Structure and formation of semiconductors with transverse conductivity gradients. 3,697,827, 10-10-72, Cl. 317-235.000.

Simon, Emmett F.: *See—*
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Simon, Eugen Meyer: *See—*
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Simon, Gunter, to Didier-Werke A.G. Furnace wall particularly for open-hearth furnaces. 3,667,181, 6-6-72, Cl. 52-496.000.

Simon, Gunther, to International Standard Electric Corporation. Restricted dial telephone station. 3,681,532, 8-1-72, Cl. 179-6.30r.

Simon Handling Engineers Limited: *See—*
Rust, William, 3,690,391.

Simon, Hans. Structure for providing air circulation at the roof of a building. 3,660,955, 5-9-72, Cl. 52-420.

Simon, Henry, Limited: *See—*
Moss, John Arthur, 3,679,117.
Sullivan, John Anthony, 3,638,538.

Simon, Horst, to Eastman Kodak Company. Camera shutter mechanism. 3,664,252, 5-23-72, Cl. 95-62.

Simon, Horst. Film metering device for photographic cameras. 3,682,066, 8-8-72, Cl. 95-31.0fm.

Simon, Horst; and Kirpal, Franz, to Eastman Kodak Company. Photographic apparatus for firing a plurality of flash lamps. 3,706,265, 12-19-72, Cl. 95-11.00l.

Simon, James Louis: *See—*
Knollman, Dieter John Henry; and Simon, James Louis, 3,671,942.

Simon, James O. Swimming pool chlorinator apparatus. 3,672,508, 6-27-72, Cl. 210-128.000.

Simon, Jean Ellen, to Colgate-Palmolive Company. Flexible film bag with tear strip for closure. 3,674,135, 7-4-72, Cl. 206-58.000.

Simon, John G.: *See—*
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Simon, John M.: *See—*
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Simon, Karl: *See—*
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Simon, Martin J., to PPG Industries, Inc. Method of grinding pigment. 3,694,239, 9-26-72, Cl. 106-309.000.
Simon, Michael, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Process for manufacturing combustion chamber and/or nozzle of a rocket. 3,644,974, 2-29-72, Cl. 29-157.
Simon, Morris: *See—*
Simon, Sydney; Simon, Morris; Hale, John S.; and Markward, Charles J., 3,682,557.
Simon, Myron S., to Polaroid Corporation. Polymers of dipyridyl. 3,641,034, 2-8-72, Cl. 260-296.
Simon, Myron S.; and Waller, David P., to Polaroid Corporation. Photographic diffusion-transfer processes and elements utilizing pH-sensitive optical filter agents to prevent fogging by extraneous actinic radiation during development. 3,702,245, 11-7-72, C. 96-3.000.
Simon, Paul, to International Business Machines Corporation. Method for manufacturing a thin-film magnetic head assembly. 3,657,806, 4-25-72, Cl. 29-603.000.
Simon, Paul R.: *See—*
Maier, Robert E., Jr.; McGinnis, Joseph P.; and Simon, Paul R., 3,690,650.
Simon, Peter, to Simon, Karl. Ski. 3,637,226, 1-25-72, Cl. 280-11.13.
Simon, Peter, to Bley, Roland. Fluid tight watch. 3,643,424, 2-22-72, Cl. 58-90.
Simon, Pierre Edouard: *See—*
Jeanmart, Claude; Messer, Mayer Naoum; and Simon, Pierre Edouard, 3,644,366.
Simon, Ralph E.; and Williams, Brown F., to RCA Corporation. Negative effective electron affinity emitters with drift fields using deep acceptor doping. 3,699,404, 10-17-72, Cl. 317-235.00r.
Simon, Selwyn; and Tijunelis, Donatas, to Union Carbide Corporation. Plastic bag for packaging fresh red meat and method for making the same. 3,650,775, 3-21-72, Cl. 99-174.
Simon, Stephane Marcel Clement; and Verhille, Henri Albert Juli, to International Standard Electric Corporation. Selection circuit. 3,667,001, 5-30-72, Cl. 317-137.000.
Simon, Sydney: *See—*
Simon, Sydney; Simon, Morris; Hale, John S.; and Markward, Charles J., 3,682,557.
Simon, Sydney; Simon, Morris; Hale, John S.; and Markward, Charles J., to Simon, Sydney and said Hale and said Markward assor. to said Simon, Morris. Cleaning apparatus. 3,682,557, 8-8-72, Cl. 401-139.000.
Simon, Theodore A., to Shell Oil Company. Leak-testing internal seas in pipe joints. 3,653,254, 4-4-72, Cl. 73-46.
Simon, Theodore A., to Shell Oil Company. Method of connecting a hose between stations. 3,685,133, 8-22-72, Cl. 29-427.000.
Simon, Theodore Andrew: *See—*
Murphey, Carey E., Jr.; Simon, Theodore Andrew; and Torrest, Robert Steven, 3,692,114.
Simon, Wilhelm; Moller, Willi; and Dohner, Rene, to Moller, Blasblaserei Inhaber, Gebruder and Moller, Willi. Measuring electrode for measuring of ions in solutions. 3,647,666, 3-7-72, Cl. 204-195.
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Simon-Carves Limited: *See—*
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Fitton, John Talbot; and Sutton, Alan, 3,685,166.
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Simon-Vermot, Andre; and Grossenbacher, Charles-Andre, to Les Fabriques d'Assortiments Reunies. Balance for a time piece. 3,676,998, 7-18-72, Cl. 58-107.000.
Simon-Vermot, Andre, to Les Fabriques d'Assortiments Reunies. Method of manufacturing an escapement lever for a timepiece. 3,694,885, 10-3-72, Cl. 29-177.000.
Simond, Jacques: *See—*
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Simonds, Peter, to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence. Discone antenna. 3,701,159, 10-24-72, Cl. 343-745.000.
Simone, John: *See—*
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Simone, Roy R. De; and Linton, Richard H., to International Business Machines Corporation. Monolithic capacitor structure. 3,704,384, 11-28-72, Cl. 307-304.000.
Simonelli, Chris P., to Ford Motor Company. Seat back latch. 3,679,259, 7-25-72, Cl. 297-379.000.
Simonelli, Le Roy S.; Randolph, Leonard B.; and Damico, Sam, to Clover Industries, Inc. Wheel chair ramp for automotive vehicles. 3,651,965, 3-28-72, Cl. 214-75.
Simonen, Thomas C.: *See—*
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Simonet, Guy A.; and Lesur, Pierre F., to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Gas purifying process and apparatus. 3,702,525, 11-14-72, Cl. 55-25.000.
Simonetta, Enrico, to USAG S.p.A. Free-wheel device for transmitting torques and reversible ratchet dog comprising same. 3,677,102, 7-18-72, Cl. 74-143.000.
Simonffy, Louis. Thread cutting tools. 3,661,471, 5-9-72, Cl. 408-220.
Simonffy, Louis. Spiral drill having unequal cutting faces. 3,706,504, 12-19-72, Cl. 408-228-.000.
Simonis, Petrus J. C. A.: *See—*
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Simons, Duane J.: *See—*
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Simons, Emil: *See—*
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Simons, Frank Holmes, to Fiber Industries, Inc. Polyamide composition and process. 3,707,522, 12-26-72, Cl. 260-37.00n.
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Simons, Gerald F.; Lynch, Frederick W.; and McKown, Gary C., to Sperry Rand Corporation. Digital electrohydraulic servo actuator. 3,664,234, 5-23-72, Cl. 91-363.000.
Simons, Ira W., to Buckeye Stamping Company, The. Instrument case of assembled modular elements. 3,687,325, 8-29-72, Cl. 220-4.00r.
Simons, Jon W.: *See—*
Bourke, Robert F.; and Simons, Jon W., 3,656,006.
Simons, Michael John, to Eastman Kodak Company. Preparation of silver ketenides. 3,681,417, 8-1-72, Cl. 260-430.000.
Simons, Peter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of aminoguanidine bicarbonate. 3,673,253, 6-27-72, Cl. 260-564.00f.
Simons, Willi: *See—*
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Simons, Willi, to Schloemann Aktiengesellschaft. Method for the continuous casting of tubes. 3,638,715, 2-1-72, Cl. 164-85.
Simonsson, Gunnar Carl Rune, to Jungner Instrument Aktiebolag. Device to facilitate the focusing of a distance meter. 3,658,419, 4-25-72, Cl. 356-3.
Simopoulos, Nicholas T.; and Tsui, James B. Y., to Labtron Corporation of America. Multiband antenna with associated R. F. amplifier. 3,703,685, 11-21-72, Cl. 325-373.000.
Simovits, Stephen S.; and Dumas, Christ J., to American Plasticraft Company. Tube socket assembly. 3,636,412, 1-18-72, Cl. 317-61.
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Simpkins, Frederick W., to Alden Research Foundation. Facsimile recorder and moving electrode therefor. 3,701,997, 10-31-72, Cl. 346-74.00e.
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Simpson, Elsworth C., to Polylok Corporation. Method of and machine for making fabrics. 3,677,034, 7-18-72, Cl. 66-84.000.
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Simpson, Lawrence V. Watercraft. 3,665,532, 5-30-72, Cl. 9-1.
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Singer, Malcolm Scott, to Chevron Research Company. Imidazolidinedione herbicides. 3,655,689, 4-11-72, Cl. 260-309.5.

Singer, Malcolm Scott, to Chevron Research Company. Naphthyl-N-cyanoformyl carbamates. 3,705,188, 12-5-72, Cl. 260-479.00c.

Singer, Max E., to Keyes Fibre Company. Method of thermoplastic coating of molded pulp. 3,657,044, 4-18-72, Cl. 156-212.

Singer, Murray. Convertible pen. 3,662,712, 5-16-72, Cl. 119-17.000.

Singer, Robert B.; Muir, Earl B.; and Kotzar, Andrew J., to White Motor Corporation. Multiple countershafts transmission. 3,654,822, 4-11-72, Cl. 74-681.

Singer Safety Products, Inc.: *See—*
Singer, Isadore, 3,687,185.

Singer-General Precision, Inc.: *See—*
Bramson, Arnold; and Day, Wilbur H., 3,645,014.
Buckstad, Stanley A., 3,633,044.
Cwynar, Thomas; and Trzeciak, John R., 3,688,098.
Dell, Harold R.; and Lara, Edward D., 3,691,359.
Eland, Paul D., 3,694,716.
Greenly, Robert B., 3,638,566.
Harf, Kenneth G., 3,693,102.
Jarmy, Howard I., 3,650,448.
Jones, Derek; and Hayes, Woodrow L., 3,652,043.
Myles, Walter E., 3,632,194.
Schindel, Arnold, 3,693,759.
White, Alvin S., 3,648,232.
Wood, Gerald F.; and Green, Paul E., 3,650,045.

Singerman, Gary M.: *See—*
Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., 3,682,853.
Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., 3,684,748.
Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., 3,684,754.
Franke, Norman W.; and Singerman, Gary M., 3,684,753.

Singewald, Arno: *See—*
Messer, Ernst; and Singewald, Arno, 3,695,711.

Singh, Balwant, to American Cyanamid Company. Photosensitive compositions comprising 1,1 disubstituted-1,2-dihydro-2,4 disubstituted phthalazines. 3,634,085, 1-11-72, Cl. 96-48.

Singh, Balwant, to American Cyanamid Company. Halo azido naphthalenes. 3,699,130, 10-17-72, Cl. 260-349.000.

Singh, Jagmohan, to North American Rockwell Corporation. Independent needle knitting machines. 3,690,124, 9-12-72, Cl. 66-8.000.

Singh, Kanwal N.; Cremean, Stephen P.; and Scott, Donald R., to Columbia Gas System Service Corporation. Modular air conditioning and heating system. 3,672,442, 6-27-72, Cl. 165-22.000.

Singh, Shanker; and Singh, Vijendrap P., to International Business Machines Corporation. Method of testing devices using untested devices as reference standard. 3,636,443, 1-18-72, Cl. 324-73.

Singh, Shanker, to International Business Machines Corporation. Fast adder for multi-number additions. 3,675,001, 7-4-72, Cl. 235-175.000.

Singh, Shobha: *See—*
Bonner, William Adam; Singh, Shobha; and Van Uitert, Le Grand Gerard, 3,679,907.
Grodkiewicz, William H.; Singh, Shobha; and Van Uitert, Le Grand Gerard, 3,659,136.
Levinstein, Hyman Joseph; Singh, Shobha; and Van Uitert, Le Grand Gerard, 3,657,090.

Singh, Shobha; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Nonlinear optical devices utilizing substantially hexagonal silicon carbide devices. 3,676,695, 7-11-72, Cl. 307-88.300.

Singh, Sujan: *See—*
Arthur, Jett C., Jr.; and Singh, Sujan, 3,676,056.
Arthur, Jett C., Jr.; Singh, Sujan; and Hinojosa, Oscar, 3,677,692.

Singh, Vijendrap P.: *See—*
Singh, Shanker; and Singh, Vijendrap P., 3,636,443.

Singhal, Gopal H., to Esso Research and Engineering Company. Isothiocyanatomethyl and thiocyanatomethyl hydantoins. 3,681,377, 8-1-72, Cl. 260-309.500.

Single, David, to Motorola, Inc. Method of reclaiming and coating phosphor. 3,647,522, 3-7-72, Cl. 117-100.

Single, Winfried: *See—*
Kindler, Hubert; and Single, Winfried, 3,660,510.

Single-Buoy Mooring, Inc.: *See—*

Smulders, Robert, 3,660,856.
Singletary, Lloyd G. Universal conduit connector. 3,662,087, 5-9-72, Cl. 174-65.00r.
Singleton, Albert. Hanger bracket and driving apparatus for plating barrels. 3,668,103, 6-6-72, Cl. 204-213.000.
Singleton, Cecil W.; and Jones, Richard P., to Allegheny Ludlum Industries, Inc. Apparatus for leveling thin strip. 3,680,343, 8-1-72, Cl. 72-161.000.
Singleton, Clifton L.: *See—*
Kibler, Gene M.; and Singleton, Clifton L., 3,702,342.
Singleton, David M., to Shell Oil Company. Olefin disproportionation. 3,637,893, 1-25-72, Cl. 260-683.
Singleton, Jack H., to Westinghouse Electric Corporation. Cathode materials for sputter-ion pumps. 3,684,401, 8-15-72, Cl. 417-49.000.
Singleton, John C.: *See—*
Sherrick, Ronald E.; and Singleton, John C., 3,679,173.
Singleton, John Stephenson: *See—*
Pratt, Ronald George; Willis, William; and Singleton, John Stephenson, 3,688,223.
Singleton, Richard H.: *See—*
Miller, Donald G.; and Singleton, Richard H., 3,653,976.
Singleton, Richard L., to Loopco. Combined crocheting and looping needle. 3,678,712, 7-25-72, Cl. 66-118.000.
Singleton, Robert J.: *See—*
Loveland, Malcolm W.; and Singleton, Robert J., 3,704,041.
Singmaster & Bryer: *See—*
Somerville, Robert L., 3,661,535.
Sinha, Vinod Tarkeshwar: *See—*
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Sinichkin, Moisei Mikhailovich: *See—*
Silvestrov, Sergei Nikolaevich; Sinichkin, Moisei Mikhailovich; Shirokov, Grigory Ivanovich; Soloviev, Jury Filippovich; Silvestrov, Nikolai Demyanovich; and Amusin, Boris Zinovievich, 3,675,433.
Sinitsky, Vladimir Mikhailovich: *See—*
Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinitsky, Vladimir Mikhailovich; Khirdzheiv, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
Sinizer, David I.; Fanelle, Louis H.; Toy, Albert; and Atteridge, David G., to North American Rockwell Corporation. Stress-oriented filament winding in composite panels. 3,638,298, 2-1-72, Cl. 29-470.9.
Sinizer, David I.; Toy, Albert; Atteridge, David G.; and Fanelli, Louis H., to North American Rockwell Corporation. Stress-oriented filament winding in composite panels. 3,669,364, 6-13-72, Cl. 242-1.000.
Sink, James A., Jr.; and Watson, Richard J., to Deering Milliken Research Corporation. Safety control. 3,671,170, 6-20-72, Cl. 431-88.000.
Sinker, Robert A.; and Williams, George L., to Hughes Aircraft Company. Electric power source. 3,665,226, 5-23-72, Cl. 310-8.300.
Sinkovitz, Gloria Di Marco: *See—*
Hoover, Merwin Frederick; Sinkovitz, Gloria Di Marco; and Ruland, Andrew Martin, 3,668,138.
Sinkula, Anthony A.: *See—*
Morozowich, Walter; and Sinkula, Anthony A., 3,655,885.
Sinkula, Anthony A., to Upjohn Company, The. Erythromycin ureides and process of preparation. 3,661,891, 5-9-72, Cl. 260-210.
Sinkula, Anthony A. Erythromycin amides as antibacterical agents. 3,689,645, 9-5-72, Cl. 424-181.000.
Sinn, Gustav: *See—*
Keberle, Wolfgang; Hornig, Heinz; and Sinn, Gustav, 3,686,387.
Sinn, Hansjoerg; Hinck, Helmut; Gruetzmacher, Hans Friedrich; and Bandermann, Friedhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymeric organo aluminum substances. 3,651,112, 3-21-72, Cl. 260-448.
Sinn, Robert: *See—*
Copin, Robert; Sinn, Robert; and Bouilly, Charles, 3,669,641.
Sinnard, Leo G. Fifth wheel with safety features. 3,633,940, 1-11-72, Cl. 280-432.
Sinnett, Homer Dayle: *See—*
Anderson, John E.; and Sinnett, Homer Dayle, 3,675,545.
Sinnott, David J.; and Alecci, Donald E., to Star-New Era, Inc. Photographic composition system. 3,702,094, 11-7-72, Cl. 95-4.500.
Sinobad, Dusan: *See—*
Melchior, Gerard; and Sinobad, Dusan, 3,697,880.
Sinohara, Osamu: *See—*
Kawai, Hiroshi; Sinohara, Osamu; and Haruyama, Tadayuki, 3,666,157.
Sinol-Arzneimittel Dr. Schwirz GmbH: *See—*
Cordes, Gunter, 3,656,997.
Sinram & Wendt: *See—*
Fussel, Kurt, 3,632,028.
Sinusas, Robert R., to Monsanto Company. Cathode ray tube deflection system utilizing electromagnetic and electrostatic beam deflection. 3,668,462, 6-6-72, Cl. 315-23.000.
Sinvervo, Into, to Oy Wartsila AB. Guided locking bar. 3,656,329, 4-18-72, Cl. 70-366.
Sions, James B.; and Gramling, Wesley A. Brick hangers. 3,672,112, 6-27-72, Cl. 52-712.000.
Sioui, Richard H.; and Cohen, Harvey M., to Norton Company. Resin bonded metal-coated diamond or cubic boron nitride abrasive tools containing an inorganic crystalline filler and graphite. 3,664,819, 5-23-72, Cl. 51-295.000.
Sioux Steam Cleaner Corporation: *See—*
Finger, John F., 3,692,433.
Sioyama, Hitosi: *See—*
Arikawa, Masayasu; and Sioyama, Hitosi, 3,688,967.
Sipala, Richard, to Dapa Research Corporation. Rotary actuated spade. 3,633,681, 1-11-72, Cl. 172-546.
Sipek, Charles B.: *See—*
Brainard, Wallace E.; and Sipek, Charles B., 3,661,463.
Sipin, Anatole J. Vehicle propulsion-assisting systems. 3,637,324, 1-25-72, Cl. 416-146.
Sipin, Anatole J. Fluid proportioning system. 3,690,340, 9-12-72, Cl. 137-93.000.
Sipos, Donald J.; Steigerwald, Robert F.; and Whitcomb, Newell E., to Du Pont de Nemours, E. I., and Company. Ductile corrosion-resistant ferrous alloys containing chromium. 3,672,876, 6-27-72, Cl. 75-124.000.
Sippel, Charles P., Jr.: *See—*
Nothmann, Gerhard A.; Sippel, Charles P., Jr.; and Bartky, Walter Scott, 3,689,150.
Sippel, Egon: *See—*
Gipperich, Karl; and Sippel, Egon, 3,648,827.
Sippican Corporation, The: *See—*
Hottel, Hoyt C., Jr., 3,684,962.
Siquet, Serge: *See—*
Charamel, Andre; Duroux, Jacques Marius; Siquet, Serge; and Descroix, Jaques, 3,692,830.
S.I.R. Laboratori Chimico-Biologici S.p.A.: *See—*
Serino, Enrico; Antoniu, Demetrio; Magi, Mario; Ganzina, Fabrizio; and Samueli, Fabio, 3,651,059.
Sir, Zdenek: *See—*
Rod, Vladimir; Bazant, Vladimir; and Sir, Zdenek, 3,694,497.
Sira Institute; formerly known as British Scientific Instrument Research Association: *See—*
Dunn, Geoffrey Bernard; and York, Leonard Ernest, 3,669,048.
Siragusa, George A.: *See—*
Marshall, Albert H.; and Siragusa, George A., 3,657,826.
Siraki, Yosinori: *See—*
Nakai, Tuneo; Ando, Akira; Minehisa, Setuzi; Kaneko, Shunsuke; Siraki, Yosinori; Inui, Tatuo; Nakazima, Hiroyuki; and Tominaga, Naotugu, 3,660,629.
Sircom, Richard Cumming, to Eastech Limited. Protection against electrical shock. 3,670,206, 6-13-72, Cl. 317-18.00d.
Sirianni, Aurelio F.; and Puddington, Ira E., to Canadian Patents and Development Limited. Process for separation of siliceous and phosphatic material from iron ore. 3,661,254, 5-9-72, Cl. 209-5.000.
Sirianni, Donald M. Steel shell for use in building construction. 3,659,388, 5-2-72, Cl. 52-91.
Sirkis, Murray D.: *See—*
Gaddy, Oscar L.; Holonyak, Nick, Jr.; Sirkis, Murray D.; and Baird, Jack R., 3,636,255.
Sironi, Giuseppe: *See—*
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Colombo, Umberto; Scacciati, Giovanni; Sironi, Giuseppe; and Vaschetti, Amos, 3,649,186.
Colombo, Umberto; Sironi, Giuseppe; Viviani, Bruno; and Colombini, Ariano, 3,649,245.
Sironi, Virginio, to Vibratechniques S.A. Variable amplitude vibrator, for example for the manufacture of moulded concrete products. 3,680,842, 8-1-72, Cl. 259-1.000.
Sironi, Virginio, to Vibratechniques S.A. Vibrator. 3,704,862, 12-5-72, Cl. 259-1.00r.
Sirota, Julius; Bentley, David J., Jr.; and Jubilee, Benjamin D., Jr., to National Starch and Chemical Corporation. Pressure sensitive adhesive compositions. 3,677,985, 7-18-72, Cl. 260-27.00r.
Sirrenberg, Walther: *See—*
Walther, Gerhard; Bauer, Rudolf; Schulz, Werner; and Sirrenberg, Walther, 3,703,523.
Sirrenberg, Wilhelm; Hammann, Ingeborg; Behrenz, Wolfgang; Stendel, Wilhelm; and Unterstenhofer, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. 2,2-Dichloro-vinylphosphoric acid ester amides. 3,652,742, 3-28-72, Cl. 260-957.
Sirrenberg, Wilhelm; Unterstenhofer, Gunter; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. Methylene-bis-(phenyl-sulfide)-4-phenylsulfonic acid esters. 3,658,873, 4-25-72, Cl. 260-456.
Sirrine, Edwin B.: *See—*
Mayberry, Billy T.; and Sirrine, Edwin B., 3,668,701.

Sirrine, Richard C.; and Stein, Leonard, to General Electric Company. Method of making low resistance polycrystalline silicon contacts to buried collector regions using refractory metal silicides. 3,653,120, 4-4-72, Cl. 29-589.
Sirtl, Erhard: *See—*
Heywang, Walter; and Sirtl, Erhard, 3,674,552.
Sirtl, Erhard; and Seiter, Hartmut, to Siemens Aktiengesellschaft. Method of producing epitactic growth layers of semiconductor material or electrical components. 3,653,991, 4-4-72, Cl. 148-175.
Sirtl, Erhard. Method for epitactic precipitation of silicon at low temperatures. 3,661,637, 5-9-72, Cl. 117-201.
Sisenca S.A.: *See—*
Ohlsson, Jarl-Erik, 3,633,659.
Sisk, George William, Jr.; Miller, Arthur William; and Koleszar, Frank, to Whirlpool Corporation. Adjustable speed air drive-air sweep for air conditioner. 3,677,166, 7-18-72, Cl. 98-94.000.
Sisler, Hampson A. Optical ophthalmodynamometer. 3,706,304, 12-19-72, Cl. 128-2.00t.
Sisler, Remo. Reciprocating, sensitive saw, with unidirectional cut, particularly adapted for use with diamond blades. 3,662,734, 5-16-72, Cl. 125-16.
Sissel, Harold N. Mechanically compensated zoom lens system. 3,640,605, 2-8-72, Cl. 350-184.
Sisson, Donald R.; and Hanson, Richard E., to Nelson, L. R., Mfg. Co., Inc. Water distribution in the operation of pivot move agricultural irrigation spinkler systems. 3,680,778, 8-1-72, Cl. 239-100.000.
Sisson, Girard B. Storage and disposal vehicle. 3,658,383, 4-25-72, Cl. 298-2.
Sisson, Ronald L.: *See—*
Howard, Wayne R.; and Sisson, Ronald L., 3,636,705.
Sisson, William Howard: *See—*
Beuscher, Hugh Jacob; Nelson, Donald Robert; Sisson, William Howard; and Toy, Wing Noon, 3,638,184.
Sistare, Vann M.; and Brooks, Kenneth, to Celanese Corporation. Tandem yarn winding. 3,642,217, 2-15-72, Cl. 242-35.5.
Sitabkhan, Abdul N., to HTL Industries, Inc., mesne. Electrical monitor for fire extinguisher. 3,664,430, 5-23-72, Cl. 169-23.
Sitam Societa Industriale Telai Automatics Milano: *See—*
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Sitamura, Osamu: *See—*
Hachisu, Mikio; Saito, Chikanori; Sitamura, Osamu; and Nambu, Yasuo, 3,659,323.
Sitek, George J.; and Revesz, Robert N., to Laboratory Equipment Corporation. Electrically resistive crucible. 3,636,229, 1-18-72, Cl. 13-25.
Sitelines, Inc.: *See—*
McCurdy, Richard H.; and Connelly, Lawrence W., 3,685,239.
Sitkowski, Mark: *See—*
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Sitler, Carl L.: *See—*
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Sitler, Galen: *See—*
Hochheiser, Jerome S.; Zermeno, Louis; and Sitler, Galen, 3,663,895.
Sitnichenko, Valentin Mikhailovich; and Zamuruev, Alexander Mikhailovich. Photoelectric comprising two lenses or apertures located along a common radius from an axis of rotation. 3,639,767, 2-1-72, Cl. 250-202.
Sitnikov, Leonid Semenovich: *See—*
Borisov, Konstantin Grigorievich; Markman, Iosif Leibovich; Sitnikov, Leonid Semenovich; and Utyakov, Lev Lazarevich, 3,659,163.
Sitnikov, Leonid Semenovich; Utyakov, Lev Lazarevich; and Skorik, Alexandr Grigorievich. Pre-settable self-correcting staircase counters. 3,683,207, 8-8-72, Cl. 307-225.000.
Sitt, Eddie. Article with removable ornament that also serves as a fastener. 3,646,642, 3-7-72, Cl. 24-97.
Sitter, Evan L., to Sitter, Spencer B. Resilient linkage for limb shaker. 3,696,597, 10-10-72, Cl. 56-328.0ts.
Sitter, Spencer B.: *See—*
Sitter, Evan L., 3,696,597.
Sitter, Spencer B. Limb shaker. 3,650,099, 3-21-72, Cl. 56-328.
Sitter, Spencer B. Limb holder. 3,690,052, 9-12-72, Cl. 56-328.000.
Sitterly, Charles K., to Scovill Manufacturing Company. Plastic sheated window frame. 3,662,494, 5-16-72, Cl. 49-504.
Sittner, Weldon Rex, to Electro Medical Systems, Inc. Method and apparatus for high frequency electric surgery. 3,675,655, 7-11-72, Cl. 128-303.140.
Sitver, Leonard A.: *See—*
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Sitz, Gilbert Carl: *See—*
Lau, Ralph Rupp; and Sitz, Gilbert Carl, 3,664,218.
Sitz, Tilbert C., to Collins Radio Company. Cable winding apparatus. 3,700,180, 10-24-72, Cl. 242-54.00a.
Sivash, Konstantin Mitrofanovich: *See—*
Stroganov, Genrikh Borisovich; Savitsky, Evgeny Mikhailovich; Tikhova, Nina Mikhailovna; Terekhova, Vera Fedorovna; Volkov, Mstislav Vasilievich; Sivash, Konstantin Mitrofanovich; and Borodkin, Vladislav Sergeevich, 3,687,135.
Sivertsen, David R.: *See—*
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Sivertson, Wilford E., Jr., to United States of America, National Aeronautics and Space Administration. Logical function generator. 3,700,868, 10-24-72, Cl. 235-152.000.
Siwek, Erwin G.: *See—*
Hamlen, Robert P.; and Siwek, Erwin G., 3,645,794.
Siwersson, Olle Lennart; and Tell, Karl Gunnar. Devices for guiding material to the entrance end of a screw conveyor having a rotatable screw and a conduit therefor. 3,685,638, 8-22-72, Cl. 198-213.000.
Siwik, Anthony F., to Parker-Hannifin Corporation. Coupling for plastic tube. 3,640,554, 2-8-72, Cl. 285-382.2.
Siwik, Egbert: *See—*
Hase, Helmut; and Siwik, Egbert, 3,659,869.
Siwko, Karol: *See—*
Kruzewski, William Frank; and Siwko, Karol, 3,699,455.
Siwko, Karol, to GTE Sylvania Incorporated. Television receiver intermediate frequency amplifier circuitry. 3,706,846, 12-19-72, Cl. 178-7.30r.
Six, Hugh A.: *See—*
Brach, Paul J.; and Six, Hugh A., 3,657,272.
Six, Richard. Clutch controls for power take-off shafts of tractor or like vehicles. 3,640,362, 2-8-72, Cl. 192-48.7.
Sixsmith, Herbert, to National Research Development Corporation. Damped bearing. 3,639,014, 2-1-72, Cl. 308-9.
Sixt, Marty E.: *See—*
Martin, Ronald C.; and Sixt, Marty E., 3,658,097.
Martin, Ronald C.; and Sixt, Marty E., 3,669,473.
Sixt, Marty E., to Advanced Drainage Systems, Inc. Corrugated drainage tubes and fittings. 3,699,684, 10-24-72, Cl. 61-11.000.
Siyanov, Sergei Alexandrovich: *See—*
Lutchenkov, Anatoly Matveevich; Shekhodanov, Mikhail Petrovich; Siyanov, Sergei Alexandrovich; Korovin, Ivan Stepanovich; Kholstova, Nonna Alexandrovna; Kreptseva, Valentina Nikolaevna; and Leskovskaya, Nina Petrovna, 3,671,125.
Size, Robert A. Immersion deep frier. 3,640,208, 2-8-72, Cl. 99-408.
Sizer, Phillip S.; and Schwegman, Harry E., to Otis Engineering Corporation. Well flow circulating methods. 3,637,012, 1-25-72, Cl. 166-250.
Sizer, Phillip S., to Otis Engineering Corporation. Fluid circulating method and system for wells. 3,654,995, 4-11-72, Cl. 166-313.
Sizer, Phillip S.; and Carroll, Albert W., to Otis Engineering Corporation. Well cross-over apparatus for selective communication of flow passages in a well installation. 3,666,012, 5-30-72, Cl. 166-224.
Sizer, Phillip S.; and Schwegman, Harry E., to Otis Engineering Corporation. Methods of completing a well. 3,669,190, 6-13-72, Cl. 166-315.000.
Sizer, Phillip S., to Otis Engineering Corporation. Well flow control system and method. 3,675,720, 7-11-72, Cl. 166-314.000.
Sizer, Phillip S., to Otis Engineering Corporation. Pipe handling apparatus and method. 3,677,345, 7-18-72, Cl. 166-315.000.
Sjoberg, Bengt; and Viberg, Oskar. Bombing instrument for targets having transverse motion relative to aircraft flight path. 3,689,741, 9-5-72, Cl. 235-61.50d.
Sjoberg, Berndt Olof Harald: *See—*
Bamberg, Peter; Ekstrom, Bertil Ake; Sjoberg, Berndt Olof Harald; and Nathorst-Westfelt, Lars Solve, 3,642,810.
Carlsson, Lars Anders Fritz; Helgstrand, Ake John Erik; Sjoberg, Berndt Olof Harald; and Stjernstrom, Nil Erik, 3,637,714.
Sjolin, Ulf: *See—*
Sandstrom, Unto; Abramson, Nils; Sjolin, Ulf; Murray, Henrik; and Colding, Bertil, 3,662,279.
Sjonvall, Ragnar Edward: *See—*
Glasser, George; Sjonvall, Ragnar Edward; and Kaplow, Milton, 3,676,154.
Sjoo, Bertil Roland, to Hesselman Bil-Aero AB. Single-lever mechanism. 3,705,519, 12-12-72, Cl. 74-471.0xy.
Sjoquist, John A., to LKB-Produkter AB. Method and apparatus for analysing proteins. 3,645,689, 2-29-72, Cl. 23-230.
Sjostrand, Carl Evert: *See—*
Wikholm, Sture Sven-Olof; and Sjostrand, Carl Evert, 3,687,576.
Sjostrand, Ulf Hakan; and Oberg, Per Ake, to LKB Medical AB. Apparatus for influencing the systemic blood pressure in a patient by carotid nerve stimulation. 3,650,277, 3-21-72, Cl. 128-419.
Sjostrom, Gosta; deceased (by Sjostrom, Ruth; and Sjostrom, Kjell; heirs). System for arresting the movement of objects travelling along a defined path. 3,674,117, 7-4-72, Cl. 187-67.000.
Sjostrom, John P., Sr., to Cass Industries, Ltd. Handlebar hand protector. 3,665,515, 5-30-72, Cl. 2-17.
Sjostrom, Kjell: *See—*
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Sjostrom, Ruth: *See—*

Sjostrom, Gosta, 3,674,117.
Sjotun, Kyrre Guttorm. Oil burner system with motor driven pump controlling by-pass valve. 3,698,639, 10-17-72, Cl. 239-124.000.
Sjovall, Jan: *See*—
Bergstrom, Sune; and Sjovall, Jan, 3,691,216.
Bergstrom, Sune; and Sjovall, Jan, 3,706,789.
Sjovall, Stig Lennart, to Svenska Sockerfabriks Aktiebolaget. Root-crop harvesters. 3,680,638, 8-1-72, Cl. 171-76.000.
Sjusjuk, Vladimir Efimovich: *See*—
Vasilkovsky, Lev Fedorovich; Sjusjuk, Vladimir Efimovich; Abrosimov, Nikoloi Nikitovich; Geidebrekhov, Georgy Andreevich; Lyashenko, Vsevolod Andreevich; and Podmogilny, Vladimir Ivanovich, 3,659,642.
SK Instruments Limited: *See*—
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Skaathun, Olav; and Troope, Walter S., to Tedeco Textile Development Co. A/S. Apparatus for treatment of fabrics with liquid ammonia. 3,664,158, 5-23-72, Cl. 68-5.
Skabunde, Steven Eldor, to Giddings & Lears, Inc. Hydrostatic seal for rotary machine tool spindles. 3,698,725, 10-17-72, Cl. 277-74.000.
Skadynsh, Rolands Bernkhardovich: *See*—
Fridman, Uriel Grigorievich; Mor, Gera Sergeevna; Skadynsh, Rolands Bernkhardovich; and Kuzmenko, Ivan Emelyanovich, 3,691,885.
Skafte, Stanly F., to Williams Furnace Co. Oven heater combination. 3,667,450, 6-6-72, Cl. 126-85.00b.
Skaggs, Preston H. Truck bed. 3,647,097, 3-7-72, Cl. 214-506.
Skagit Corporation: *See*—
Mangold, Edward J., 3,675,960.
Mc Intyre, Maurice J., 3,688,929.
McIntyre, Maurice J.; and Newton, John R., 3,680,721.
Skahen, Don H., to Dunham Tool Company, Inc., The. Spring actuated release of contracting collet chucks for lathes and the like. 3,687,468, 8-29-72, Cl. 279-51.000.
Skahill, Fred J., to Case, J. I., Company. Corn threshing cylinder and concave. 3,631,861, 1-4-72, Cl. 130-6.
Skala, George F., to Environment-One Corporation. Self-adjusting condensation nuclei monitor measuring circuit having adjustable gain. 3,678,488, 7-18-72, Cl. 340-236.000.
Skala, George Frank, to Environment-One Corporation. Dual beam fluid monitor for measuring transmitted and scattered light. 3,647,300, 3-7-72, Cl. 356-73.
Skala, Stephen F. Printing by selective ink ejection from capillaries. 3,693,179, 9-19-72, Cl. 346-1.000.
Skaletzky, Louis L.: *See*—
Rynbrandt, Ronald H.; and Skaletzky, Louis L., 3,647,804.
Skalleberg, Oystein Gunnar, to MeKanomatik AB. Winding device for a cable, rope or the like. 3,687,385, 8-29-72, Cl. 242-54.00r.
Skalsey, Lily G., to Lear Siegler, Inc. Expanding arbor for tapered holes. 3,654,797, 4-11-72, Cl. 72-393.
Skalsey, Lily G., to Lear Siegler, Inc. Pot broaching machine. 3,670,625, 6-20-72, Cl. 90-86.000.
Skalski, Stephen, III: *See*—
Logan, William A.; Holmes, Richard M.; Denny, William M.; Mahon, Michael J.; Skalski, Stephen, III; Henige, Gerald L.; and Bedekar, Shreekant, 3,686,641.
Skandinavisk Emballage Aktieselskab: *See*—
Orstam, Preben Einar Roar, 3,647,044.
Skandinavisk Foto Trade AB: *See*—
Sundsten, Owe Wilhelm; and Johansson, Karl Bertil Sune, 3,703,916.
Skanes, Frederick A.; Aker, Ludwig E.; and Kraemer, Ronald G., to International Harvester Company. Track roller shaft mounting. 3,662,847, 5-16-72, Cl. 180-9.20r.
Skanski Cementaktiebolaget: *See*—
Moren, Rolf Erhard; and Ydren, Nils-Erik, 3,663,251.
Skaperdas, Dominic O.: *See*—
Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., 3,641,529.
Skappel, Einar. Control valve. 3,648,721, 3-14-72, Cl. 137-408.
Skaptason, Joseph B.: *See*—
Schwartz, Herbert; and Skaptason, Joseph B., 3,654,302.
Skarbo, Roald R., to Kennecott Copper Corporation. Recovery of molybdenum. 3,653,815, 4-4-72, Cl. 23-15.
Skarivrda, Edwin Larry, to AMF Incorporated. Time switch with indexing means for programming. 3,704,629, 12-5-72, Cl. 74-3.520.
Skarvinko, Eugene R., to International Business Machines Corporation. Preventing speed loss in oxygen sensitive photo-resist layers. 3,669,667, 6-13-72, Cl. 96-68.000.
Skarzynski, Maciej Stanislaw. Disconnectable couplings. 3,704,002, 11-28-72, Cl. 251-149.600.
Skatrud, Ralph O.: *See*—
Laurer, George J.; and Skatrud, Ralph O., 3,700,859.
Skau, Evald L.: *See*—
Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,644,478.
Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,661,936.
Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,663,582.
Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,691,158.
Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,694,397.
Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,704,257.
Skaw, Eugene Raymond: *See*—
Degenkolb, Robert Stephen; and Skaw, Eugene Raymond, 3,681,713.
Skebeck, Arthur W. Probe game. 3,661,393, 5-9-72, Cl. 273-153.
Skedd, Richard Finnie: *See*—
Craven, George Frederick; and Skedd, Richard Finnie, 3,639,862.
Skeels, Gary William, Jr.: *See*—
Rabo, Jule Anton; Angell, Charles Leslie; and Skeels, Gary William, Jr., 3,647,682.
Skeen, Gary R. Micrometer adjustment for a stock feeding device. 3,635,102, 1-18-72, Cl. 74-600.
Skees, Hugh B.; and Mays, John D., to Standard Register Company, The. Donor-receptor copy paper. 3,635,747, 1-18-72, Cl. 117-36.3.
Skega AB: *See*—
Naredi, Robert Gerhard Franz Josef, 3,637,147.
Skegai Tekko Kabushiki Kaisha: *See*—
Ito, Kazuo; and Yotsubayashi, Hiroyuki, 3,662,473.
Skeggs, Leonard T., to Technicon Instruments Corporation. Method and apparatus for sample analysis on a continuous flow basis. 3,699,004, 10-17-72, Cl. 195-103.50r.
Skehan, Bernard J., to Hughes Aircraft Company. Scan control system. 3,665,282, 5-23-72, Cl. 318-627.
Skei, Inge. Recording apparatus for sonar and echo sounding systems. 3,698,658, 10-17-72, Cl. 242-192.000.
Skelley, John W.: *See*—
Milton, Thomas J.; and Skelley, John W., 3,703,105.
Skelton, Charles Roger; and Malkani, Dalip Tarachand, to British Iron and Steel Research Association, The. Control for rolling means having successive rolling stands. 3,650,135, 3-21-72, Cl. 72-8.
Skelton, Leslie George Victor; Thomas, Godfrey Hunt; and Jenkins, Hedley Brynmor, to Skelton-Thomas Limited. Convector plates. 3,661,371, 5-9-72, Cl. 266-5.
Skelton, Robert F.; and Truax, Harry, to Mix-Mill, Inc., mesne. Apparatus and method for treating grains and legumes. 3,680,472, 8-1-72, Cl. 99-235.00r.
Skelton-Thomas Limited: *See*—
Skelton, Leslie George Victor; Thomas, Godfrey Hunt; and Jenkins, Hedley Brynmor, 3,661,371.
Skenderoff, Claude, to Thomson-CSF. Symbol recognition system, particularly for alpha-numeric characters utilizing electro-optical techniques with non-coherent light. 3,644,889, 2-22-72, Cl. 340-146.3.
Skeppstedt, Nils Petri, to Aktiebolaget Karlstads Mekaniska Werkstad. Machine for making thin paper. 3,694,311, 9-26-72, Cl. 162-290.000.
SKF Industrial Trading and Development Company N.V.: *See*—
Arsenius, Torsten Henry; Gustafsson, Anders Christer; and Hallstedt, Karl Goran Albin, 3,672,733.
Arsenius, Torsten Henry; and Hallstedt, Carl Goran Albin, 3,675,977.
Arsenius, Torsten Henry, 3,696,841.
Axbard, Gunnar Bertil, 3,644,971.
Fernlund, Lars Martin Ingemar; and Kellstrom, Erik Magnus, 3,663,074.
Gustafsson, Anders Christer, 3,703,322.
Hallerback, Stig Lennart, 3,658,395.
Hallerback, Stig Lennart, 3,675,979.
Hallerback, Stig Lennart, 3,701,911.
Hallerback, Stig Lennart, 3,702,720.
Hallerback, Stig Lennart, 3,707,038.
Nilsson, Sven Walter, 3,659,435.
Nilsson, Sven Walter, 3,699,823.
SKF Industries, Inc.: *See*—
Coaley, Albert E., 3,631,954.
Crecelius, William J., 3,655,252.
Martinie, Howard M., 3,683,421.
SKF Kugellagerfabriken GmbH: *See*—
Bartling, Gerhard, 3,685,270.
Breitenbach, Karl-Heinz, 3,673,781.
Hampp, Wilhelm; and Sandstrom, Stig, 3,689,127.
Kohler, Gisbert, 3,641,759.
Kohler, Gisbert, 3,669,518.
Manger, Werner, 3,656,825.
Munnich, Hermann; and Markert, Franz, 3,695,391.
Steichele, Joseph, 3,681,831.
SKF Kugellagerfabriken GmbH mit beschrankter Haftung: *See*—
Kohler, Gisbert, 3,684,334.
Ski Free Company: *See*—
Berlenbach, Bernard E., 3,643,977.
Ski-Doo Sports Ltd.: *See*—
Walker, Marvin, 3,670,340.
Ski-Tow Manufacturing Co.: *See*—

Young, Charles H.; and Ray, Donald L., 3,672,238.
Skiatron Electronics & Television Corporation: *See—*
Shanahan, William J.; Zopf, Vincent R.; and Loshin, Albert M., 3,689,688.
Skiba, Alexander, Jr., to Royal Packaging Equipment, Inc. Machine for package turnover and orientation. 3,679,070, 7-25-72, Cl. 214-1.00q.
Skibo, Andrew D.; and Woodworth, Chester L., to Monsanto Company. Apparatus for controlling back pressure in an extruder. 3,647,344, 3-7-72, Cl. 425-379.
Skid-Stack Corporation: *See—*
Sanders, James S., 3,664,272.
Skidmore, Wallace E.; Syltebo, Bjarne E.; and Viall, Wilton S., to Boeing Company, The. Aircraft engine variable highlight inlet. 3,664,612, 5-23-72, Cl. 244-53.00b.
Skiermont, Frank Joseph: *See—*
Snedeker, Robert Howard; Garty, Kenneth Thomas; and Skiermont, Frank Joseph, 3,666,614.
Skil Corporation: *See—*
Braun, Hermann E., 3,637,967.
Gawron, Alex F., 3,660,742.
Gronke, Ronald E.; and Schultz, William H., 3,701,369.
Skilbeck, John P.: *See—*
Rackus, John J.; Skilbeck, John P.; and Szkudlapski, Alfons H., 3,692,638.
Skiles, Richard D.: *See—*
Pilgram, Kurt H.; and Skiles, Richard D., 3,658,830.
Skille, Peter W. Fence corner. 3,655,167, 4-11-72, Cl. 256-35.
Skillicorn, Brian: *See—*
Trump, John George; Skillicorn, Brian; and Johnson, Byron Lee, 3,684,991.
Skillicorn, Douglas E., to Goodrich, B. F., Company, The. Liquid thioester-terminated polymers. 3,705,882, 12-12-72, Cl. 260-79.000.
Skime, Roger H., to Arctic Enterprises, Inc. Shock mounted suspension system. 3,690,394, 9-12-72, Cl. 180-5.00r.
Skinner, Burrhus F., to Meredith Corporation. Educational device with self-checking arrangement. 3,650,046, 3-21-72, Cl. 35-9.
Skinner, Frank R., II; and Wigfall, Robert T., to Whirlpool Corporation. Audible indicator for solenoid valve. 3,665,960, 5-30-72, Cl. 137-551.000.
Skinner, George C.: *See—*
Cope, Geoffrey W.; and Skinner, George C., 3,678,442.
Skinner, Harold A.: *See—*
Otrhalek, Joseph V.; and Skinner, Harold A., 3,663,386.
Skinner, Harvey G., to Vulcan, Inc. Pallet constructions. 3,654,874, 4-11-72, Cl. 108-51.
Skinner, Harvey G., to Vulcan, Inc. Hollow knob constructions. 3,699,613, 10-24-72, Cl. 16-121.000.
Skinner, Jack; and Whitehurst, George, to Simms Motor Units Limited. Fuel injection controls for internal combustion engines. 3,664,317, 5-23-72, Cl. 123-139.0bg.
Skinner, James R.: *See—*
Herte, Lawrence F.; Kloss, Frank R.; Lane, George C.; and Skinner, James R., 3,632,494.
Skinner, James R.; Uitz, Mark O.; and Hait, Paul W., to Action Film, Inc. Motion picture viewer with removable cartridge. 3,706,439, 12-19-72, Cl. 352-78.000.
Skinner, John George: *See—*
Goldrick, Michael Richard; Kerwin, Robert Eugene; and Skinner, John George, 3,674,492.
Skinner, Jon R.; and Sanborn, Charles E., to Shell Oil Company. Dehydration of α-methylbenzyl alcohol. 3,658,928, 4-25-72, Cl. 260-669.
Skinner, Kenneth R., to General Motors Corporation. Headlamp turn off time delay. 3,684,916, 8-15-72, Cl. 315-82.000.
Skinner Precision Industries, Inc.: *See—*
Ellison, John E., 3,670,274.
Skinner, Robert Thomas John: *See—*
Martin, Anthony Eugene Joseph; Skinner, Robert Thomas John; and Baker, Bernard James, 3,662,495.
Skinner, Robert Thomas John, to Lucas, Joseph, (Industries) Limited. Spill valves. 3,665,951, 5-30-72, Cl. 137-117.
Skinner, Wilfred A.; and Tong, Homer H. C., to Stanford Research Institute. Method for controlling rodents with certain bis-aziridine acetyl chemosterilants. 3,636,212, 1-18-72, Cl. 424-244.
Skinner, Wilfred A.; Johansson, John G.; and Johnson, Howard L., to Stanford Research Institute. 3,4,5-Trimethoxybenzamides of phenyl- and pyridylakylamines. 3,676,447, 7-11-72, Cl. 260-295.0am.
Skinner, Wilfred A.; Johansson, John G.; and Johnson, Howard L., to Stanford Research Institute. 3,4,5-Trimethoxybenzamides of substituted anilines and of alkylpiperidines. 3,702,324, 11-7-72, Cl. 260-293.530.
Skinner, Wilson M.: *See—*
French, Lawrence R.; and Skinner, Wilson M., 3,691,248.
Sklaar, Richard L. Bench. 3,697,129, 10-10-72, Cl. 297-217.000.
Sklar, J., Mfg. Co., Inc.: *See—*
Sklar, John, 3,646,939.
Sklar, John, to Sklar, J., Mfg. Co., Inc. Towel clamp. 3,646,939, 3-7-72, Cl. 128-321.
Sklarsky, Bernard B.; and Ostrander, Robert K., to Uneeda Doll Co., Inc. Growing-hair doll. 3,696,551, 10-10-72, Cl. 46-135.000.
Sklarz, William A.; Grenda, Victor J.; Lindberg, Glenn W.; and Epstein, Albert D., to Merck & Co., Inc. Process for preparing 4(5)-nitroimidazoles. 3,644,391, 2-22-72, Cl. 260-309.
Sklenak, John S.: *See—*
Krah, Hans-Joachim; Sklenak, John S.; and Smith, William A., 3,666,983.
Skobel, Max, to Dow Corning Corporation. Equipment for making reinforced tubing. 3,698,988, 10-17-72, Cl. 156-428.000.
Skoda, narodni podnik: *See—*
Strejc, Bohuslav, 3,641,708.
Zajic, Vladimir, 3,643,496.
Skoda, Raymond E.: *See—*
Luborsky, Fred E.; and Skoda, Raymond E., 3,691,032.
Skodak, Clifford A. Fluid distributing apparatus. 3,697,001, 10-10-72, Cl. 239-521.000.
Skogen, Robert O.: *See—*
Zetterlund, Stanley L.; and Skogen, Robert O., 3,675,587.
Skogit Corporation: *See—*
Roller, Robert L., 3,684,113.
Skogmo, David G., to United States of America, Atomic Energy Commission. Generalized circuit. 3,634,731, 1-11-72, Cl. 317-101.
Skogsholm, Einar Aasen: *See—*
Graf, Carlton Eugene; Skogsholm, Einar Aasen; and Volkmann, Werner Karl, 3,641,421.
Skokan, Zdenek E., to Hewlett-Packard Company. Logic gate. 3,643,109, 2-15-72, Cl. 307-235.
Skold, Mats Folke. Spacer clip for joining and supporting crosswisely extending reinforcement. 3,694,988, 10-3-72, Cl. 52-678.000.
Skoldenfelt, Sven H.: *See—*
Bergquist, Nils R.; and Skoldenfelt, Sven H., 3,682,323.
Skoldkvist, Amy Maria: *See—*
Skoldkvist, Helge Natanael, 3,694,312.
Skoldkvist, Hans Marten: *See—*
Skoldkvist, Helge Natanael, 3,694,312.
Skoldkvist, Helge Natanael; deceased (Skoldkvist, Amy Maria; Skoldkvist, Hans Marten; and Paget, Birgitta Helena; sole heirs). Disintegrating and deflocculating device in inlet boxes of paper-making machines. 3,694,312, 9-26-72, Cl. 162-342.000.
Skolmutch, Jon S.: *See—*
Anders, Walter G.; and Skolmutch, Jon S., 3,639,023.
Skolnick, Michael L.: *See—*
Buczek, Carl J.; Skolnick, Michael L.; and Freiberg, Robert J., 3,646,468.
Buczek, Carl J.; and Skolnick, Michael L., 3,646,469.
Lee, Paul H.; and Skolnick, Michael L., 3,697,887.
Skolnick, Michael L.; and Buczek, Carl J., to United Aircraft Corporation. Cryogenically cooled Faraday rotator element. 3,697,151, 10-10-72, Cl. 350-151.000.
Skolnick, Michael L.; and Buczek, Carl J., to United Aircraft Corporation. Nonresonant interferometric optical isolator. 3,700,309, 10-24-72, Cl. 350-163.000.
Skomoroski, Robert M., to International Nickel Company, Inc., The. Iridium plating. 3,639,219, 2-1-72, Cl. 204-47.
Skonare, Per: *See—*
Stahl, Nils Evert Johan; and Skonare, Per, 3,671,097.
Skoog, Hilding G. A., to Sevenska Dalaregister AB. Information transmitting device. 3,675,109, 7-4-72, Cl. 321-2.000.
Skoog, Ivan H., to Minnesota Mining and Manufacturing Company. Photographic silver halide emulsions containing couplers with fluoro-aliphatic-sulfonyloxy groups. 3,681,076, 8-1-72, Cl. 96-100.000.
Skoog, Ralph E.: *See—*
Steiger, Robert W.; and Skoog, Ralph E., 3,683,332.
Skopalik, Josef; Svoboda, Vladimir; and Opatril, Vaclav, to Elitex, Zavody textilniho strojirenstvi generalni reditelstvi. Apparatus for forming a system of weft threads for further processing in textile machines. 3,705,503, 12-12-72, Cl. 66-84.000.
Skora, Robert F., to Kimberly-Clark Corporation. Sanitary napkin with improved wrap material. 3,665,922, 5-30-72, Cl. 128-290.
Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I., to Colgate-Palmolive Company. 5-Morpholinyl-2,1-benzisothiazolines. 3,635,964, 1-18-72, Cl. 260-247.1.
Skorcz, Joseph A.; and Suh, John T., to Colgate-Palmolive Company. 1-Aryl-5-hydroxyalkyl-hydantoins. 3,651,079, 3-21-72, Cl. 260-309.5.
Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I., to Colgate-Palmolive Company. 3-Morpholino alkyl 2,1-benzisothiazolines. 3,657,238, 4-18-72, Cl. 260-247.1.
Skorcz, Joseph A. L-Tyrosyl-1-aminocyclopentane-1-carbonyl-L-phenylalanine. 3,704,288, 11-28-72, Cl. 260-112.500.
Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I. 5-Oxomorpholinyl-2,1-benzisothiazolines. 3,704,299, 11-28-72, Cl. 260-247.100.
Skorik, Alexandr Grigorievich: *See—*
Sitnikov, Leonid Semenovich; Utyakov, Lev Lazarevich; and Skorik, Alexandr Grigorievich, 3,683,207.
Skoroszewski, Wladyslaw H.: *See—*
Vernon, Brian J.; and Skoroszewski, Wladyslaw H., 3,672,013.

Skoroszewski, Wladyslaw H.; and Stones, Dennis S., to Shell Oil Company. Process and apparatus for manufacturing fibers or yarns from molecularly orientable organic polymeric films. 3,697,636, 10-10-72, Cl. 264-147.000.
Skorupsky, Boris Pavlovich: *See—*
Tselikov, Alexandr Ivanovich; Grum-Grzhimailo , Nikolai Alexeevich; Verderevsky, Vadim Anatolievich; Vernik, Alexandr Borisovich; Skorupsky, Boris Pavlovich; Kazakevich, Igor Illarionovich; and Kuznetsov, Ivan Vasilievich, 3,661,314.
Skoultchi, Martin; and Meier, Eric A., to National Starch and Chemical Corporation. Ethylenically unsaturated derivatives of 4-aminobenzoic acid and polymers prepared therefrom. 3,666,732, 5-30-72, Cl. 260-78.5bb.
Skowronski, Steve J.: *See—*
Beeler, Allan E.; and Skowronski, Steve J., 3,653,401.
Skraba, Frank W.: *See—*
Mitchell, Norris W.; Skraba, Frank W.; and Houston, William L., Jr., 3,681,897.
Skrabek, Emanuel Andrew; and Trimmer, Donald Smith, to Teledyne, Inc. Thermoelectric alloys. 3,695,867, 10-3-72, Cl. 75-134.00g.
Skralskis, Edward P., to Omark Industries, Inc. Energy absorbing structures. 3,706,359, 12-19-72, Cl. 188-1.00c.
Skreiner, Klaus M.: *See—*
Barkan, Philip; and Skreiner, Klaus M., 3,663,906.
Skrentner, Frank C., to La Salle Machine Tool, Inc. Method for machining spaced surfaces. 3,670,607, 6-20-72, Cl. 82-1.00c.
Skrentner, James A., to La Salle Machine Tool, Inc. Hydraulically operated tool compensator unit. 3,677,115, 7-18-72, Cl. 82-24.000.
Skrepek, Jan: *See—*
Peschl, Ervin; and Skrepek, Jan, 3,688,524.
Skripko, Gely Fomich: *See—*
Vereschagin, Leonid Fedorovich; Yakovlev, Evgeny Nikolaevich; Konyaev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; Novikov, Albert Pavlovich; Bakul, Valentin Nikolaevich; Skripko, Gely Fomich; and Tsypin, Nekhemian Veniaminovich, 3,694,177.
Skripko, Leonid Alexandrovich; Rozantsev, Eduard Grigorievich; and Polotovskaya, Lidia Grigorievna. Method of preparing disubstituted di(p-arylamino-phenoxy) silanes. 3,641,091, 2-8-72, Cl. 260-448.8.
Skrivan, Joseph Francis, to American Cyanamid Company. Production of phosphorus. 3,679,363, 7-25-72, Cl. 23-223.000.
Skrivanek, Ladislav: *See—*
Salz, Karl; and Skrivanek, Ladislav, 3,698,925.
Skrobisch, Alfred, to Allard Instrument Corporation. Limited angle D.C. torque motor. 3,644,763, 2-22-72, Cl. 310-36.
Skrobisch, Alfred, to Allard Instrument Corporation. Segmental readout device. 3,668,700, 6-6-72, Cl. 340-378.
Skromme, Arnold Burton; Lindstrom, Harold Richard; Henningsen, Etlar August; Beldin, Royal Lowell; Sorlie, Donald Thomas; and Eckert, Elmer Richard, to Deere & Company. Feed-mixing apparatus. 3,667,734, 6-6-72, Cl. 259-44.000.
Skrupsky, Voldemar Petrovich: *See—*
Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leeniex, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreevich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
Skrypa, Michael J.: *See—*
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Skuin, Petar: *See—*
Keller, Gunter; Knauft, Gunter; Skuin, Petar; and Vogt, Edwin, 3,649,817.
Skuja, Ivars M., to Audiscan Incorporated. Film projection system. 3,702,721, 11-14-72, Cl. 353-19.000.
Skulsky, Jury Valentinovich; Boretsky, Vasily Grigorievich; Sakharnov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievih; Schukin, Pavel Ivanovich; Danilkiv, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamovich; and Sokirko, Vasily Andreevich. Device for removing burr formed during resitance butt welding of casing pipes. 3,657,962, 4-25-72, Cl. 90-24.
Skunda, Michael: *See—*
Rausch, John T.; and Skunda, Michael, 3,705,951.
Skupas, John A.; and Godwin, Robert H., to Bliss & Laughlin Industries, Inc. Anti-fouling caster, swivel-type. 3,703,020, 11-21-72, Cl. 16-31.000.
Skuran, Victor: *See—*
Waite, William; and Skuran, Victor, 3,648,734.
Skutella, Stanislaus. Oil gauge. 3,667,295, 6-6-72, Cl. 73-290.
Skutt, Robert R.: *See—*
Trimble, Cebern B.; and Skutt, Robert R., 3,672,043.
Skuttle Manufacturing Company: *See—*
Stiles, Walter R., 3,640,515.
Skvortsov, Boris Vasilievich: *See—*
Gruzdev, Valentin Anatolievich; Skvortsov, Boris Vasilievich; Propkopenko, Nikolai Vasilievich; and Nedzvetsky, Evgeny Alexandrovich, 3,636,396.
Sysun, Viktor Viktorovich; Skvortsov, Boris Vasilievich; Basov, Jury Georgievich; and Roldugin, Vladimir Ivanovich, 3,703,658.
Skvortsov, Georgy Alexandrovich: *See—*
Kandelaki, David Georgievich; Chargeishvilli, Tenzig Sergeevich; and Skvortsov, Georgy Alexandrovich, 3,695,977.
Skwarek, Frank J.: *See—*
Skwarek, Frank J.; and Erickson, John E., 3,637,151.
Skwarek, Frank J.; and Erickson, John E., to Skwarek, Frank J. Continuous loop cartridge. 3,637,151, 1-25-72, Cl. 242-55.09.
Skyles, Robert: *See—*
Riely, Phyllis; and Skyles, Robert, 3,631,654.
Skytta, Osmo. Bearing box support for the shaft of a drying cylinder in a paper machine. 3,704,921, 12-5-72, Cl. 308-22.000.
Skyway Luggage Company: *See—*
Kotkins, Henry L., 3,669,228.
Slaasted, Raymond S., to Modine Manufacturing Company. Inlet fitting for an automative air conditioner condenser. 3,666,294, 5-30-72, Cl. 285-114.000.
Slaats, Mathew A., to Jasper Corporation, The. Apparatus for cleaning log members. 3,633,593, 1-11-72, Cl. 134-64.
Slaats, Mathew A.; and Blessinger, James E., to Kimball Piano & Organ Co. Electronic organ voicing control mounted on voice tab. 3,681,507, 8-1-72, Cl. 84-1.190.
Slabakov, Christo G. Automobile seat back. 3,679,261, 7-25-72, Cl. 297-231.000.
Slaby, Robert K.: *See—*
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Slaby, Robert Kent, to French Oil Mill Machinery Company, The. Apparatus for removing liquids from elastomeric polymers. 3,672,641, 6-27-72, Cl. 259-9.000.
Slack, Vaughn H.; and Koens, Gilliaan Peter, to Farm Automatic Feeding Limited. Raw organic material cooker. 3,703,861, 11-28-72, Cl. 99-443.000.
Slade, Albert E.; and Newman, John J., to Memorex Corporation. Thermomagnetic copying of magnetic records with cooling of copy medium carrier. 3,632,898, 1-4-72, Cl. 179-100.2.
Slade Gorton & Co., Inc.: *See—*
Wenstrom, Richard T.; and Gorton, Thomas S., Jr., 3,665,554.
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Slade, Herbert J. Window well cover. 3,703,791, 11-28-72, Cl. 52-107.000.
Slade, William J., to Campbell Soup Company. Can end with removable tab closure. 3,662,914, 5-16-72, Cl. 220-24.
Slade, Winton Lloyd, to Raybestos-Manhattan, Inc. Method for producing electrically conductive tetrafluoroethylene polymer tubing. 3,658,976, 4-25-72, Cl. 264-105.
Sladek, Theodore E.; Palmer, John E.; and Steele, Michael F., to Susquehanna Corporation, The. Apparatus for confining material floating on water. 3,638,429, 2-1-72, Cl. 61-1.
Slagel, Edwin C.: *See—*
Baker, Ronald E.; Fogarty, Robert L.; and Slagel, Edwin C., 3,698,587.
Slagel, John E., to Phillips Petroleum Company. Carbon black pelleting. 3,636,148, 1-18-72, Cl. 264-40.
Slagel, Robert C.: *See—*
Grimm, Robert A.; and Slagel, Robert C., 3,644,442.
Sedor, Edward A.; and Slagel, Robert C., 3,671,473.
Slagel, Robert C., to Ashland Oil, Inc. Acrylic aminimides and polymers thereof. 3,664,990, 5-23-72, Cl. 260-85.500.
Slagel, Robert Clayton; and Bloomquist, Arnold Eugene, to Calgon Corporation. Friction reducing in a flowing hydrocarbon fluids. 3,654,994, 4-11-72, Cl. 166-308.
Slager, James Edward: *See—*
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Slagg, James E.; Nelson, Grant W.; Moffitt, Jerry T.; and Balint, Joseph A., to Allen-Bradley Company. Modular potentiometer. 3,676,822, 7-11-72, Cl. 338-132.000.
Slagle, Franklin D.: *See—*
Pasini, Joseph, III; Overbey, William K., Jr.; and Slagle, Franklin D., 3,636,751.
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Slagteriernes Forskningsinstitut: *See—*
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Slan, Jack, to Dominion Luggage Co., Limited. Method for applying bumper strip to luggage piece. 3,694,540, 9-26-72, Cl. 264-230.000.
Slana, Matthew Francis, to Bell Telephone Laboratories, Incorporated. Pulse code modulation multiplex system. 3,668,291, 6-6-72, Cl. 179-15.0ap.
Slanker, Daniel R.; and Slanker, Edwin E. Power driven reciprocating bone surgery instrument. 3,640,280, 2-8-72, Cl. 128-317.
Slanker, Edwin E.: *See—*
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Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.
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Slater, John M.; and Wilcox, Doyle E., to North American Rockwell Corporation. Accelerometer. 3,706,217, 12-19-72, Cl. 73-497.000.
Slater, Mandel E.: *See—*
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Slater, N., Company; division of Slater Steel Industries Limited: *See—*
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Slater, Raymond L.: *See—*
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Slater, Robert, to Singer Company, The, mesne. Leakage filter for frequency modulated continuous wave doppler radar system. 3,703,004, 11-14-72, Cl. 343-8.000.
Slater, Robert Edward: *See—*
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Slater, Thomas C.; and Hamilton, Floyd C., Jr., to Flintkote Company, The. Hydraulic cement and method of producing same. 3,682,669, 8-8-72, Cl. 106-100.000.
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Slater, William L., to Texaco Inc. Process for the generation of synthesis gas from oil. 3,639,261, 2-1-72, Cl. 252-373.
Slater, William L.; and Schlinger, Warren G. Production of a methane-rich synthesis gas. 3,688,438, 9-5-72, Cl. 48-215.000.
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Slates, Elmer F., to United States of America, Navy. Belt driven pitch cycloidal propeller. 3,639,077, 2-1-72, Cl. 416-111.
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Slator, Damon T.; and Wilson, Archie R., to Bowen Tools, Inc. Well tubing injector and removal apparatus. 3,658,270, 4-25-72, Cl. 242-54.
Slator, Damon T.; and Peil, Archie W., to Bowen Tools, Inc. Tubing hanger assembly and method of using same. 3,675,719, 7-11-72, Cl. 166-297.000.
Slator, Damon T.; Bishop, Thomas R.; and Peil, Archie W., to Bowen Tools, Inc. Tubing connection having means for distributing axially applied pulling forces. 3,689,112, 9-5-72, Cl. 285-39.000.
Slator, Damon T.; and Wilson, Archie R., to Bowen Tools, Inc. Well tubing guide and straightener apparatus. 3,690,136, 9-12-72, Cl. 72-160.000.
Slator, Damon T.; and Peil, Archie W., to Bowen Tools, Inc. Tubing hanger assembly and method of using same for hanging tubing in a well under pressure. 3,690,381, 9-12-72, Cl. 166-315.000.
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Slator, Damon T.; and Burns, Albert L., Jr., to Bowen Tools, Inc. Rotating joint. 3,694,008, 9-26-72, Cl. 285-94.000.
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Mininno, Anthony; Slattery, John; and Shulman, Mildred, 3,684,882.
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Slavic, Fred M. Press for web printing having intermittent paper feeding means. 3,645,203, 2-29-72, Cl. 101-228.
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Slavik, William H., to Motorola, Inc. Automatic beam intensity limiter with a current transformer coupled to the ultor lead. 3,644,669, 2-22-72, Cl. 178-7.5.
Slavin, Martin J., to Phonplex Corporation, mesne. Electronic voice annunciating system having binary data converted into audio representations. 3,641,496, 2-8-72, Cl. 340-148.
Slavin, Martin J., to American Electronic Laboratories, Inc. Multiplex terminal with redundancy reduction. 3,659,052, 4-25-72, Cl. 179-15.
Slavin, Michael; and Carp, Ralph W., to Bendix Corporation, The. Hydraulic pressure modulator for use in adaptive braking systems. 3,669,403, 6-13-72, Cl. 351-30.
Slavin, Peter E., to Intelligent Instruments, Inc. Display system. 3,641,554, 2-8-72, Cl. 340-324.
Slavinsky, Zunya Mikhalevich: *See—*
Kuznetsov, Lev Vasilievich; Slavinsky, Zunya Mikhalevich; Kalachev, Vasily Alexeevich; Krupin, Alexandr Leonidovich; Aristarkhov, Nikolai Alexandrovich; Popkov, Eduard Jurievich; Trutnev, Vladimir Alexandrovich; and Bulychev, Nikolai Petrovich, 3,704,496.
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Slawek, Joseph E., Jr.; and Altemose, Harvey W., to Barnes Engineering Company. Monolithic detector construction of photodetectors. 3,704,375, 11-28-72, Cl. 250-211.00j.
Slawinski, Frank E., to Atlas Chemical Industries, Inc. Dynamite composition containing expanded thermoplastic beads. 3,671,342, 6-20-72, Cl. 149-21.000.
Slawinski, Frank E., to ICI America Inc. Packing apparatus and method. 3,702,147, 11-7-72, Cl. 141-12.000.
Slawny, Howard J.: *See—*
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Slawson, Kenneth Leonard, to Houdaille Industries, Inc. Correction system for numerical controls. 3,689,821, 9-5-72, Cl. 318-632.000.
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Slaybaugh, Loren E., to Republic Industries Inc. Sliding door operator. 3,670,455, 6-20-72, Cl. 49-360.000.
Slayden, James D., to Avco Corporation. Modular building. 3,662,508, 5-16-72, Cl. 52-393.000.
Slayden, James D., to Avco Corporation. Connector. 3,671,063, 6-20-72, Cl. 287-189.36c.
Slayton, Jack E.; and Whipp, Eugene F. Dispenser cap. 3,695,487, 10-3-72, Cl. 222-430.000.
Slayton, John W. Electric grass edger. 3,676,989, 7-18-72, Cl. 56-10.500.
Sleater, Roland G.; and Reed, Charles G., to Relex Corporation. Sequential gating circuit. 3,634,769, 1-11-72, Cl. 328-75.
Slechta, Alfred F.; Culp, Gordon L.; and Dunnahoe, Richard G., to Neptune Microfloc, Incorporated. Method and apparatus for cleaning settling tube modules. 3,669,742, 6-13-72, Cl. 134-23.000.
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Slehofer, Ladislav, to Automobiles Peugeot and Regie Nationale des Usines Renault. Electrical system for an automatic vehicle. 3,704,379, 11-28-72, Cl. 307-10.00r.
Slepian, Viktor Iosifovich: *See—*
Marichev, Vladimir Petrovich; Slepian, Viktor Iosifovich; Stetsjuk, Nikolai Arsentievich; and Ginzburg, Samuil Borisovich, 3,684,245.
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Reinhold, Donald F.; Sletzinger, Meyer; and Chemerda, John M., 3,658,876.
Sletzinger, Meyer; Karady, Sandor; Ly, Manuel G.; and Pines, Seemon H., to Merck & Co., Inc. α-Acylhydrazino-β-phenylpropionitriles. 3,676,480, 7-11-72, Cl. 260-465.00d.
Sletzinger, Meyer; Harmetz, Ronald; and Reinhold, Donald F. Process for preparing cis 5-fluoro-2-methyl-1- (p-methylsulfinylbenzylidene)-3-indenyl acetic acid. 3,692,651, 9-19-72, Cl. 104-158.00r.
Slevin, Julian B. Bottle carrier. 3,651,982, 3-28-72, Cl. 220-111.
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Slight, David Laurie. Ionizing radiation apparatus and method for distinguishing between materials in mixture. 3,655,964, 4-11-72, Cl. 250-43.5.
Slighter, Ralph G.; and Berberian, Dicran A., to Sterling Drug Inc. Antimalarial compositions and methods of their. 3,663,693, 5-16-72, Cl. 424-229.
Slingerland, Peter, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid Handel en Verkeer. Method and device for gas chromatography. 3,656,277, 4-18-72, Cl. 55-67.000.
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Sliva, Martin E.; and Kwok, Roderic P., to Johnson & Johnson. Sterilization indicator. 3,667,916, 6-6-72, Cl. 23-230.00r.
Sliva, Philip O.; and Dir, Gary A., to Xerox Corporation. Electroluminescent device. 3,673,572, 6-27-72, Cl. 340-166.0el.
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Sliwkowski, Joseph J., to Computervision Corporation. Exposure control apparatus and method utilizing time VS intensity tradeoff servo system. 3,702,732, 11-14-72, Cl. 355-68.000.
Sliwkowski, Joseph J.; and Fryklund, Gilbert, to Computervision Corporation. Adaptive optical focusing system. 3,704,657, 12-5-72, Cl. 95-44.00r.
Sloan, Albert Everett; and Turnbull, Alistair Gordon, to Sevaon Engineering Limited. Dynamic braking of wound motor polyphase induction motors. 3,699,416, 10-17-72, Cl. 318-211.000.
Sloan, Albert H.; McLelland, Jack I.; Mangels, Theodore F.; and Jantzen, Robert J., to Ocean Science & Engineering, Inc. Submersible dredge. 3,683,521, 8-15-72, Cl. 37-56.000.
Sloan, Benjamin Johnston, Jr.; Martin, Billy M.; Clevenger, Loyd H.; and Dunn, Roger S., to Texas Instruments, Incorporated. Integrated circuit process utilizing orientation dependent silicon etch. 3,659,160, 4-25-72, Cl. 317-235.
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Sloan, Walter John, to Remington Arms Company, Inc. Carbonate removal. 3,661,734, 5-9-72, Cl. 204-52.
Sloane, Edwin A.; McKeever, Bruce T.; and Meyer, Burtis W., to Time/Data Corporation. Fourier transform computer. 3,638,004, 1-25-72, Cl. 235-156.
Sloane, Edwin A.; and Scaggs, Lee E., to Time/Data Corporation. Digital to log-analog converter. 3,670,326, 6-13-72, Cl. 340-347.0da.
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Sloane, Seymour D. Decorative tree covering for ornamenting an artificial tree. 3,676,275, 7-11-72, Cl. 161-14.000.
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Slobodnik, Andrew J., Jr., to United States of America, Air Force. Microwave acoustic surface wave mixer and method of fabrication. 3,633,977, 1-11-72, Cl. 307-88.3.
Slobodnik, Andrew J., Jr., to United States of America, Air Force. Microwave acoustic surface wave harmonic generator and method of fabrication. 3,634,698, 1-11-72, Cl. 307-88.3.
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Slominski, Walter V., to Hoover Ball and Bearing Company. Frame for box spring assembly. 3,665,529, 5-30-72, Cl. 5-264.
Slominski, Walter V.; Kitchen, John P.; and Mandusky, Jack C., to Hoover Ball and Bearing Company. Frame for box spring assembly. 3,680,157, 8-1-72, Cl. 5-247.000.
Slomski, Stanley L., to General Electric Company. Lamp and reflector assembly. 3,700,881, 10-24-72, Cl. 240-41.35r.
Slonaker, Robert O.: *See—*
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Slonneger, John L., to General Electric Company. Condition responsive electric switch mechanism. 3,648,214, 3-7-72, Cl. 337-311.
Sloop, Clifford E. Mounting bracket. 3,704,001, 11-28-72, Cl. 248-221.000.
Slope Incorporated: *See—*
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Slosberg, David K., to Pandel-Bradford, Inc. Flame-retardant vinyl foam carpet and method. 3,661,691, 5-9-72, Cl. 161-67.000.
Slosiarek, Michael L., to Allis-Chalmers Manufacturing Company. Swinging drawbar. 3,677,565, 7-18-72, Cl. 280-499.000.
Slottow, Hiram Gene; and Petty, William Dooley, to University of Illinois Foundation. Methods and apparatus for obtaining variable intensity and multistable states in plasma panel. 3,654,388, 4-4-72, Cl. 178-7.3.
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Slowig, Walter D.: *See—*
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Slown, Harold M. Hoist and frame for boat and trailer. 3,648,866, 3-14-72, Cl. 214-450.
S.L.R. Systems, Inc.: *See—*
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Sluijter, Robert Joahnnes; and Van Gerwen, Petrus Josephus, to U.S. Philips Corporation. Transmission system and associated transmitters and receivers for the transmission of synchronous pulse signals. 3,701,852, 10-31-72, Cl. 179-15.0fs.
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Slutsky, Arthur Samuel. Method and apparatus of digitizing analog records. 3,671,716, 6-20-72, Cl. 235-61.60a.
Slutsky, Linda F. Educational color association game. 3,690,671, 9-12-72, Cl. 273-153.00r.
Sluys, Robert Nestor Joseph; Wessels, Johannes Hendrik; and Van Den Bussche, Willem, to U.S. Philips Corporation. Method of recording and/or reproducing video signals. 3,700,798, 10-24-72, Cl. 178-6.6sf.
Sly, Thomas L.; Weis, Joseph A.; and Leto, Joseph T., to Anaren Microwave, Incorporated. Signal selection apparatus. 3,643,164, 2-15-72, Cl. 325-308.
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Smadar, Yechiel, to DCA Food Industries, Inc. Extruded food products and method of producing same. 3,650,766, 3-21-72, Cl. 99-100.
Smadar, Yechiel; and Goodman, Abraham H., to DCA Food Industries, Inc. Apparatus for despensing frozen comestibles. 3,677,443, 7-18-72, Cl. 222-94.000.
Smaikin, Viktor Gavrilovich: *See—*
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Small, Bernard J. Apparatus and process for forming tubular bodies. 3,646,657, 3-7-72, Cl. 29-200.
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Small, Fred, to Gullick Dobson Limited. Mine roof supports. 3,677,603, 7-18-72, Cl. 299-31.000.
Small, Irwin A. Drill guide for mandibular staple and staple construction. 3,664,022, 5-23-72, Cl. 32-2.000.
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Small, Owen M., to Owens-Illinois, Inc. Pressurizer nozzle. 3,652,253, 3-28-72, Cl. 65-184.
Small, Rudolph E.; Bradley, John J.; Sanders, Charles J.; and Slawny, Howard J., to Paper Converting Machine Company, Inc. Method of manufacturing a disposable product. 3,673,052, 6-27-72, Cl. 156-164.000.
Small, Rudolph Ernst, to Paper Converting Machine Company, Inc. Base product for textile replacement and method of producing the same. 3,694,300, 9-26-72, Cl. 161-127.000.
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Smaller, Philip. Double transfer tape copy system. 3,699,269, 10-17-72, Cl. 179-100.20e.
Smaller, Philip; and Treves, David, to Ampex Corporation. Modulated magnetooptic readout system. 3,701,133, 10-24-72, Cl. 340-174.10m.
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Smeallie, George R., to Bailey Meter Company. Multiple process control system. 3,651,484, 3-21-72, Cl. 340-172.5.
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Smedley, Richard W. Lock for skis. 3,636,739, 1-25-72, Cl. 70-58.
Smedley, Richard W. Auxiliary oil seal. 3,689,084, 9-5-72, Cl. 277-147.000.
Smedley, William L. Well pipe seal. 3,647,230, 3-7-72, Cl. 277-212.
Smedstad, Seth Morris. Swab tool for test tubes. 3,671,993, 6-27-72, Cl. 15-211.000.
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Smetana, Richard D., to Texaco Development Corporation. Epoxidation of olefin with an oxolane. 3,637,768, 1-25-72, Cl. 260-348.5.
Smetana, Richard D.; Chafetz, Harry; Arkell, Alfred; and McMahon, Matthew A., to Texaco Inc. Hydrocarbyl epoxide manufacture. 3,642,831, 2-15-72, Cl. 260-348.5.
Smetana, Richard D., to Texaco Inc. Alkanone manufacture. 3,646,217, 2-29-72, Cl. 260-593.
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Smirle, James M. Modular box. 3,696,960, 10-10-72, Cl. 220-23.400.
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Smith, Albert Richard, to British Industrial Sand Limited. Production of alpha-quartz-cristobalite silica for pottery. 3,660,123, 5-2-72, Cl. 106-39.
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Smith, Andrew W., Jr., to Westinghouse Electric Corporation. Digital computer process control with operational learning procedure. 3,694,636, 9-26-72, Cl. 235-151.100.
Smith, Anthony, to Hoover Company, The. Gas fired forced convection ovens. 3,698,377, 10-17-72, Cl. 126-21.00a.
Smith, Anthony William, to Volu-Sol Chemical and Manufacturing Company, Inc. Throw-away filter assembly. 3,682,321, 8-8-72, Cl. 210-477.000.
Smith, Arnold Ray: *See—*
Coyne, James Christopher; and Smith, Arnold Ray, 3,642,076.
Smith, Arthur A. Free flow water system for asphalt rollers. 3,675,546, 7-11-72, Cl. 94-50.00r.
Smith, Arthur E., to Union Carbide Corporation. Electrode contact device. 3,671,656, 6-20-72, Cl. 13-14.000.
Smith, Arthur Ernest: *See—*
Kennington, Arnold Reginal; and Smith, Arthur Ernest, 3,631,781.
Smith, Arthur G.; and Turner, Allen H., to Ford Motor Company. Electrocoating apparatus with ionizing radiation means. 3,679,572, 7-25-72, Cl. 204-300.000.
Smith, Arthur William: *See—*
Fawcett, Richard; Smith, Arthur William; and Westwood, David, 3,694,169.
Smith, Avery B.: *See—*
Scott, Harold W.; and Smith, Avery B., 3,653,185.
Smith, Avery B., to Resource Control, Inc. Colorimetric indicator for the detection of nitrogen dioxide. 3,681,027, 8-1-72, Cl. 23-232.00r.
Smith, Avery B.; Hennig, Ralph R.; Kurtz, Abraham J.; and Pantchenko, Gregory, to Resource Control, Inc. Colorimetric indicator solution for the detection of nitrogen dioxide and method of analysis. 3,704,098, 11-28-72, Cl. 23-232.00r.
Smith, Bart A.: *See—*
Mefford, Carl R.; Lass, James L.; Smith, Bart A.; Venier, Dominic A.; and Trocki, Thomas, 3,697,376.
Smith, Bart A.; Lass, James L.; and Venier, Dominic A., to General Electric Company. Nuclear fuel assembly with leakage flow control member. 3,689,358, 9-5-72, Cl. 176-78.000.
Smith, Barton K.: *See—*
Bell, Jack T.; and Smith, Barton K., 3,673,764.
Smith, Benjamin C.; and Pridham, Ernest R., to National Sea Products Limited. Continuous frying device. 3,635,149, 1-18-72, Cl. 99-404.
Smith, Bernard. Sailboat hydrofoils. 3,631,828, 1-4-72, Cl. 114-39.
Smith, Bernard. Aerohydrofoil steering control. 3,646,902, 3-7-72, Cl. 114-66.5.
Smith, Bernard; and DePietro, Anthony J. Safety bottle top. 3,698,585, 10-17-72, Cl. 215-9.000.
Smith, Bill, to Continental Oil Company. Apparatus for controlling depth of a water-towed cable. 3,680,520, 8-1-72, Cl. 114-235.00b.
Smith, Billy C.: *See—*
Ohntrup, Frederick F.; Truemper, John P.; and Smith, Billy C., 3,641,413.
Smith, Billy E.: *See—*
Brignac, Edmond P.; Smith, Billy E.; Smith, Wallace W.; and Solo, Emilio J., 3,651,201.
Smith, Billy Eual: *See—*
Lowry, Robert Arthur, Jr.; and Smith, Billy Eual, 3,702,787.
Smith, Bissell J.: *See—*
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Smith, Bob G.: *See—*

Kolb, Jack W.; and Smith, Bob G., 3,635,793.

Smith, Bob L. Fluidic phase shifter. 3,701,058, 10-24-72, Cl. 333-31.00a.

Smith, Bradford Knox, to RCA Corporation. Process for coating flat-like surfaces. 3,652,323, 3-28-72, Cl. 117-97.

Smith, Brian Lawrence; and Robertson, Rodger William, to Angus, George, & Company Limited. Manufacture of hose pipes. 3,655,310, 4-11-72, Cl. 425-109.

Smith, Brian W.: *See—*
Buck, Marvin E.; and Smith, Brian W., 3,653,908.

Smith, Burton F. B.; and Siegmund, John M., to Allied Chemical Corporation. Apparatus for dispensing fluid mixtures in uniform proportions from pressure containers. 3,656,657, 4-18-72, Cl. 222-4.

Smith, Burton H., to Raytheon Company. Solid state E. 3,646,467, 2-29-72, Cl. 330-53.

Smith, Burton H., to Raytheon Company. Helix delay line for traveling wave devices. 3,670,196, 6-13-72, Cl. 315-3.500.

Smith, Bynum E.: *See—*
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Smith, Byron F.: *See—*
Smith, Howard J.; and Smith, Byron F., 3,691,702.

Smith, Calvin S.; and McLeod, William J., to Chevron Research Company. Hydrogen manufacture. 3,656,905, 4-18-72, Cl. 23-212.

Smith, Calvin S.; and McLeod, William J., to Chevron Research Company. Hydrogen manufacture. 3,699,218, 10-17-72, Cl. 423-648.000.

Smith, Calvin S., Jr., 1/3 to Sigworth, Harrison W. and 1/3 to Finical, Thomas N., Jr. Process for producing fresh water from salt water. 3,640,850, 2-8-72, Cl. 203-11.

Smith, Carl: *See—*
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Smith, Carl E., to Xerox Corporation. Adhesive applicator. 3,669,066, 6-13-72, Cl. 118-50.100.

Smith, Carl F.: *See—*
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Smith, Carl L.; and Nicklas, William H., to General Electric Company. Apparatus for aligning the shadow mask with respect to the face panel of a cathode ray tube. 3,653,112, 4-4-72, Cl. 29-203.

Smith, Carl M., Jr.; and Miller, William R., to United States of America, Atomic Energy Commission. Self-adaptive welding torch controller. 3,646,309, 2-29-72, Cl. 219-125.

Smith, Carroll G. Combination rotatable oil dip stick and wiper. 3,703,038, 11-21-72, Cl. 33-126.70r.

Smith, Charles E.: *See—*
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Smith, Charles E. Washing apparatus for hollow containers. 3,688,782, 9-5-72, Cl. 134-58.00r.

Smith, Charles F.; and Nolan, Thomas J., III, to Dow Chemical Company, The. Inhibition of deposition of scale. 3,633,672, 1-11-72, Cl. 166-279.

Smith, Charles Harry, to Rucker Company, The. Coupling. 3,638,971, 2-1-72, Cl. 285-74.

Smith, Charles L.; and Reynolds, William S., Jr., to United States of America, Army, mesne. Decontamination of reaction solutions containing dissolved organic explosives. 3,673,174, 6-27-72, Cl. 260-239.

Smith, Charles N., to Insect-I-Var Corporation. Insect attracting and destroying device. 3,685,198, 8-22-72, Cl. 43-112.000.

Smith, Charles Philip: *See—*
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Greenland, Leonard Sidney; Smith, Charles Philip; and Marshall, David, 3,655,134.

Smith, Charles Philip; and Glaze, Stanley George, to Hobson, H. M., Limited. Valves. 3,638,672, 2-1-72, Cl. 137-81.5.

Smith, Charles W.: *See—*
Beeman, James F.; Roberts, Glenn H.; and Smith, Charles W., 3,636,362.
Older, Robert B.; and Smith, Charles W., 3,649,274.

Smith, Charles W., to Allis-Chalmers Manufacturing Company. Cycling mechanism. 3,693,502, 9-26-72, Cl. 91-219.000.

Smith, Charles W., Jr., to Autoclave Engineers, Inc. Diffusion bonding apparatus. 3,632,954, 1-4-72, Cl. 219-85.

Smith, Charlie P.: *See—*
Clendennen, Leo; and Smith, Charlie P., 3,692,069.

Smith, Chester A.; and Stoddard, William M., to General Electric Company. Stator having improved winding distribution. 3,633,057, 1-4-72, Cl. 310-184.

Smith, Chester L.; and Szabo, Louis R., to United States of America, Army. Flare radiometer. 3,667,850, 6-6-72, Cl. 356-186.000.

Smith, Clarence C.: *See—*
Szostak, Henryk; and Smith, Clarence C., 3,688,711.

Smith, Clarence C., to Union Special Machine Company. Feed adjusting mechanism for sewing machines. 3,687,096, 8-29-72, Cl. 112-206.000.

Smith, Clarence D., Jr. Garbage can holder. 3,655,158, 4-11-72, Cl. 248-154.

Smith, Clarence G., to Mobil Oil Corporation. Seismic trace centerline generator. 3,704,450, 11-28-72, Cl. 340-172.600.

Smith, Clarence M., to Westinghouse Electric Corporation. Electrical grounding receptacle. 3,636,494, 1-18-72, Cl. 339-14.

Smith, Clarence T. Method and solution for maintaining biological activity in enzymes. 3,681,197, 8-1-72, Cl. 195-63.000.

Smith, Clifford E.; and White, Bobby J., to Phillips Petroleum Company. Olefin isomerization. 3,641,184, 2-8-72, Cl. 260-683.2.

Smith, Clive Valentine: *See—*
Ogilvy, Harry Heggie; and Smith, Clive Valentine, 3,636,508.

Smith, Cloyd D. Jet engine noise suppressor. 3,688,865, 9-5-72, Cl. 181-33.00h.

Smith, Cloyd D. Exhaust noise suppressor for gas turbine. 3,692,140, 9-19-72, Cl. 181-33.00h.

Smith, Colin, to Lummus Company, The. Pressure vessel seal. 3,695,482, 10-3-72, Cl. 220-46.0ms.

Smith, Craig F.: *See—*
Woodhouse, Fred N.; and Smith, Craig F., 3,689,138.

Smith, Dale L.: *See—*
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Smith, Dallas F.: *See—*
Arnold, Richard B.; and Smith, Dallas F., 3,643,317.
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Smith, Dallas F., to General Electric Company. Apparatus for inserting coil side turn portions and insulators into the slots of a magnetic core. 3,698,063, 10-17-72, Cl. 29-205.00r.

Smith, Daniel J.: *See—*
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Smith, Daniel J.; Sorg, Earl H.; O'Grady, Elmer V.; and Walters, Fred, to Thiokol Chemical Corporation. Adhesive semi-cured sealing strip for automobile windshield. 3,659,896, 5-2-72, Cl. 296-93.000.

Smith, Daniel O., to Mobil Oil Corporation. Collapsible sanitary container and container liner. 3,684,155, 8-15-72, Cl. 229-148.000.

Smith, Darrell S. Apparatus and method for transmiting messages to vehicles in preselected off the highway areas. 3,660,762, 5-2-72, Cl. 325-51.

Smith, David F. Bonded plaster of paris bandage. 3,649,319, 3-14-72, Cl. 106-111.

Smith, David F. Plaster of Paris bandages to make casts of improved strength, water-resistance and physiological properties. 3,671,280, 6-20-72, Cl. 106-116.000.

Smith, David H.; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Magnetic devices. 3,638,207, 1-25-72, Cl. 340-174.

Smith, David Herbert: *See—*
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Smith, David L., to United States of America, National Aeronautics and Space Administration. Hall effect transducer. 3,663,843, 5-16-72, Cl. 310-10.000.

Smith, David P.: *See—*
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Smith, Dean A.: *See—*
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Smith, Dennis W.: *See—*
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Smith, Derek Anthony: *See—*
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Smith, Dexter E.; and Stewart, William S., to Phillips Petroleum Company. Control system for polymerization reactors. 3,636,326, 1-18-72, Cl. 235-151.12.

Smith, Dexter William; and Williams, Alan. Rolls for use in manufacture of battery. 3,686,916, 8-29-72, Cl. 72-198.000.

Smith, Don W.: *See—*
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Smith, Donald A.: *See—*
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Smith, Donald A.; and Verdone, Joseph A., to Eastman Kodak Company. Sulfonated poly(vinyl alcohol) derivatives as absorbent layers in photographic processing webs. 3,647,464, 3-7-72, Cl. 96-76.

Smith, Donald A., to Combustion Engineering, Inc. Wide angle solid cone spray nozzle capable of handling slurry flow. 3,666,183, 5-30-72, Cl. 239-463.000.

Smith, Donald A.; Perry, Ernest J.; and Hollister, Kenneth R., to Eastman Kodak Company. Terpolymers containing thioalkyl acrylates or thioalkylacrylamides. 3,692,753, 9-19-72, Cl. 260-79.700.

Smith, Donald A., to Eastman Kodak Company. Synthetic polymeric photographic emulsion vehicles. 3,700,456, 10-24-72, Cl. 96-114.000.
Smith, Donald Arthur; and Copenhagen, Donald M., to Eastman Kodak Company. Photographic elements containing synthetic polymeric vehicles. 3,637,394, 1-25-72, Cl. 96-114.
Smith, Donald Arthur, to Eastman Kodak Company. Ethylenically unsaturated cyans group-containing compounds. 3,658,878, 4-25-72, Cl. 260-465.4.
Smith, Donald C. Drawing device or apparatus. 3,664,028, 5-23-72, Cl. 33-174.
Smith, Donald D. Air deflection plate for a vehicle. 3,667,369, 6-6-72, Cl. 98-2.120.
Smith, Donald E.: *See*—
Koski, William E.; Smith, Donald E.; and Touba, Ali R., 3,653,912.
Smith, Donald E., to United States of America, Army. Method to prevent toxic gas emission. 3,705,474, 12-12-72, Cl. 53-22..00a.
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Smith, Donald G., to Lockheed Aircraft Corporation. Auxiliary flap actuator for aircraft. 3,706,431, 12-19-72, Cl. 244-42.0da.
Smith, Donald J., to Smith-Schreyer & Assoc., Inc. Alignable end seals for a splice case. 3,692,926, 9-19-72, Cl. 174-92.000.
Smith, Donald J.; and Foster, Seth, to Smith-Schreyer & Assoc., Inc. Telephone patch system. 3,696,320, 10-3-72, Cl. 339-18.00b.
Smith, Donald J., to Smith-Schreyer & Assoc., Inc. Shield connector for multi-strand shielded cables. 3,701,839, 10-31-72, Cl. 174-78.000.
Smith, Donald L., to Caterpillar Tractor Company. Braking circuit with fluid pressure control valve. 3,669,513, 6-13-72, Cl. 303-50.000.
Smith, Donald N., to General Electric Company. System and method of channel performance monitoring. 3,694,643, 9-26-72, Cl. 235-181.000.
Smith, Donald O.; Harte, Kenneth J.; and Cohen, Mitchell S., to Micro-Bit Corporation. Slow write-fast read memory method and system. 3,701,979, 10-31-72, Cl. 340-173.00r.
Smith, Douglas. Pipe joint coupling with gasket seal. 3,633,928, 1-11-72, Cl. 277-206.
Smith, Douglas D.: *See*—
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Smith, Douglas E.: *See*—
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Smith, Douglas F., to General Electric Company. Acceleration control system for vehicles. 3,679,894, 7-25-72, Cl. 246-182.00c.
Smith, E. Peter: *See*—
Hokanson, Lyle W.; Savage, James R.; Smith, E. Peter; Levangie, Gilbert; and Klaas, William, 3,669,196.
Smith, Earl D.: *See*—
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Smith, Earl E., to Lexalite Corporation. Replacement cover plate for electric outlet box. 3,636,236, 1-18-72, Cl. 174-66.
Smith, Edward A.: *See*—
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Smith, Edward A.; and Baldwin, Arnold V., to GAF Corporation. Pressurized liquid filtering apparatus. 3,640,392, 2-8-72, Cl. 210-232.
Smith, Edward C.; and Kimball, Carl P., to Neptune Meter Company. High speed calibration of liquid flow meters. 3,631,709, 1-4-72, Cl. 73-3.
Smith, Edward I. Stocking appliance. 3,692,217, 9-19-72, Cl. 223-111.000.
Smith, Edward M.: *See*—
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Smith, Edward Payson: *See*—
Nadherny, Rudolph E.; and Smith, Edward Payson, 3,663,025.
Smith, Edward Peter, to BTR Industries Limited. Handrails for escalators and travolators. 3,633,725, 1-11-72, Cl. 198-16.
Smith, Edward W.: *See*—
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Smith, Edward W., Jr., to Eastman Kodak Company. Uniformity of polyester films. 3,702,357, 11-7-72, Cl. 264-289.000.
Smith, Edwin B.: *See*—
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Smith, Edwin J.; and Austin, Lowell W., to National Steel Corporation. Coating system with coating medium circulation. 3,649,510, 3-14-72, Cl. 204-238.
Smith, Edwin R.; and Cafolla, Constantine F., to SFM Corporation. Tool changing and transfer mechanism. 3,667,114, 6-6-72, Cl. 29-568.
Smith, Elmer L. Tile marking device. 3,643,335, 2-22-72, Cl. 33-42.
Smith, Elwin G., & Company, Inc.: *See*—
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Smith, Elwood Lee, to Lely Corporation, The. Device for spreading granular or powdery material. 3,643,872, 2-22-72, Cl. 239-655.
Smith, Elwood Lee, to Lely Corporation, The. Devices for topping tobacco plants. 3,662,526, 5-16-72, Cl. 56-63.
Smith, Elwood Lee, to Lely Corporation, The. Device for topping tobacco plants. 3,683,603, 8-15-72, Cl. 56-63.000.
Smith, Emile G.; and Puskas, William L., to Avco Corporation. Differential voltage level detector with microvolt sensitivity. 3,673,432, 6-27-72, Cl. 307-246.000.
Smith, Eric: *See*—
Lewis, Ronald W.; and Smith, Eric, 3,636,823.
McGrath, Harry; Moore, Raymond Frederick; and Smith, Eric, 3,639,649.
Moore, Raymond Frederick; and Smith, Eric, 3,654,196.
Smith, Eric, to Olin Mathieson Chemical Corporation. Preparation of aromatic isocyanates. 3,632,827, 1-4-72, Cl. 260-453.
Smith, Eric, to Olin Corporation. Catalytic carbonylation of nitro compounds to prepare isocyanates. 3,636,027, 1-18-72, Cl. 260-453.
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Smith, Eric, to Olin Mathieson Chemical Corporation. Preparation of aromatic isocyanates by catalylic carbonylation of corresponding nitro compound. 3,637,786, 1-25-72, Cl. 260-453.
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Smith, Ernest A.: *See*—
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Smith, Ernest L., to Phillips Petroleum Company. Container and lid. 3,670,951, 6-20-72, Cl. 229-43.000.
Smith, Ernset L.; Duffy, Arthur R.; and Lyman, Eugene S., to Schjeldahl, G. T., Company. Lining for cryogenic tank. 3,669,816, 6-13-72, Cl. 161-38.
Smith, Eugene. Vertically adjustable support. 3,642,243, 2-15-72, Cl. 248-354.
Smith, Eugene C. Apparatus and method for securing a high vacuum for particle coating process. 3,649,339, 3-14-72, Cl. 117-106.
Smith, Floyd E. Feeder control and method. 3,651,985, 3-28-72, Cl. 221-10.
Smith, Forrest P., Jr., to United States Surgical Corporation. Staple cartridge with drive belt. 3,650,453, 3-21-72, Cl. 227-138.
Smith, Francis Hughes, to Vickers Limited. Optical image splitting systems. 3,652,167, 3-28-72, Cl. 356-163.
Smith, Francis Hughes, to Vickers Limited. Interferometer. 3,664,745, 5-23-72, Cl. 356-113.
Smith, Francis Hughes, to Vickers Limited. Optical field flattening devices. 3,677,621, 7-18-72, Cl. 350-157.000.
Smith, Francis Rawdon; and Horne, John E. Duplicating apparatus for cassettes. 3,677,554, 7-18-72, Cl. 274-3.000.
Smith, Frank: *See*—
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King, John Howliston; and Smith, Frank, 3,679,570.
Smith, Frank; and Entwisle, John Hubert, to Imperial Chemical Industries Limited. Anode assembly for electrolytic cells. 3,676,325, 7-11-72, Cl. 204-288.000.
Smith, Frank Edward: *See*—
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Gerstenberg, Dieter; and Smith, Frank Thomas John, 3,647,662.
Smith, Frank W.; and Parker, Patrick N., to Atlantic Richfield Company. Method for inhibiting corrosion in a well. 3,654,993, 4-11-72, Cl. 166-279.
Smith, Fred T., to Barber-Greene Company. Material reclaimer. 3,650,370, 3-21-72, Cl. 198-36.
Smith, Fred T., to Barber-Greene Company. Apparatus for handling particulate material. 3,693,512, 9-26-72, Cl. 94-46.000.
Smith, Fritz A.: *See*—
Chen, Nai Yuen; and Smith, Fritz A., 3,673,267.
Smith, Garth R.: *See*—
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Smith, George; and Wortel, Johannes M., to Shell Oil Company. Synthetic oils from alpha-olefins. 3,682,823, 8-8-72, Cl. 252-59.000.
Smith, George; Sawyer, Webster M., Jr.; and Morris, Rupert C., to Shell Oil Company. Alcohol ethoxylates. 3,682,849, 8-8-72, Cl. 260-615.00b.
Smith, George A., to Dravo Corporation. Apparatus for use in lining vessels. 3,679,071, 7-25-72, Cl. 214-1.00h.

Smith, George Armstrong; and MacLeod, Donald Simon, to New Nchanga Consolidated Copper Mines Limited. Electrowinning of metal. 3,673,062, 6-27-72, Cl. 204-112.000.
Smith, George C. Electronic sound responsive lighting system and control. 3,636,515, 1-18-72, Cl. 340-148.
Smith, George E. Temporary vehicle markings. 3,701,210, 10-31-72, Cl. 40-129.00c.
Smith, George Elwood: *See*—
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Smith, George Elwood, to Bell Telephone Laboratories, Incorporated. Charge couple memory with storage sites. 3,654,499, 4-4-72, Cl. 307-304.
Smith, George Elwood, to Bell Telephone Laboratories, Incorporated. Interconnection of electrical devices. 3,675,319, 7-11-72, Cl. 29-625.000.
Smith, George Elwood, to Bell Telephone Laboratories, Incorporated. Capacitively driven charge transfer devices. 3,697,786, 10-10-72, Cl. 307-304.000.
Smith, George H., to Minnesota Mining and Manufacturing Company. Spectral sentization of photosensitive compositions. 3,640,718, 2-8-72, Cl. 96-89.
Smith, George J., to Lobdell-Emery Manufacturing Co. Steering column mounting bracket assembly. 3,679,163, 7-25-72, Cl. 248-223.000.
Smith, George M.: *See*—
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Smith, George M., to Textron Inc. Mechanism for containing a nail package and feeding successive nails therefrom. 3,703,981, 11-28-72, Cl. 227-136.000.
Smith, George Paul: *See*—
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Smith, George S. Portable film developing tank. 3,641,910, 2-15-72, Cl. 95-90.5.
Smith, George T. Swinging doll game. 3,702,699, 11-14-72, Cl. 273-1.
Smith, George W. Sewage treatment apparatus and method. 3,703,462, 11-21-72, Cl. 210-7.000.
Smith, George Wallace, Jr.: *See*—
Schmidt, Robert Benjamin; Smith, George Wallace, Jr.; and Walford, Robert Bernard, 3,702,010.
Smith, Gerald B.: *See*—
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Smith, Gerald C.; and Williams, Raymond J., to Eastman Kodak Company. Control circuit for automating the operation of a film cutter or like apparatus. 3,699,832, 10-24-72, Cl. 83-210.000.
Smith, Gerald C., to Eastman Kodak Company. Method and apparatus for correlating rejected photographic prints with corresponding photographic negatives. 3,706,373, 12-19-72, Cl. 209-73.000.
Smith, Gerald H. Photoflash mounting adapter for close-up photography. 3,688,662, 9-5-72, Cl. 95-11.00r.
Smith, Gerald L., to Computer Mate, Inc. Readout circuitry with compensation for speed variations. 3,644,910, 2-22-72, Cl. 340-174.1.
Smith, Glenn D.: *See*—
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Smith, Glenn D., to Metal Improvement Company, Inc. Method of and apparatus for measuring intensity of peening in small diameter holes. 3,695,091, 10-3-72, Cl. 73-11.000.
Smith, Gordon E.: *See*—
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Smith, Gordon E., to Medidyne Corporation. Method and apparatus for catheter injection. 3,703,174, 11-21-72, Cl. 128-214.400.
Smith, Gordon Victor; and Ward, Eric John, to Sparcatron Limited. Gap-monitoring electric-discharge-machining apparatus. 3,673,371, 6-27-72, Cl. 219-69.00g.
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Smith, Millard F. High-strength fire-resistant spill control booms. 3,638,430, 2-1-72, Cl. 61-1.
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Smith, Raymond Peter, Jr. Short circuit locator apparatus including a plurality of intermittently operated circuit breakers. 3,699,433, 10-17-72, Cl. 324-52.000.
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Smith, Richard D. Projection game apparatus including paper clip projector and closely spaced target posts. 3,675,924, 7-11-72, Cl. 273-101.000.
Smith, Richard D. Board game apparatus. 3,690,667, 9-12-72, Cl. 273-134.00b.
Smith, Richard D.; and Furlong, Dale A., to Combustion Power Company, Inc. Air pollution-free internal combustion engine and method for operating same. 3,696,795, 10-10-72, Cl. 123-1.00a.
Smith, Richard Daniel. Preserving cellulosic materials through treatment with alkylene oxides. 3,676,055, 7-11-72, Cl. 8-120.000.
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Smith, Richard Deming, to RCA Corporation. Computer with program tracing facility. 3,673,573, 6-27-72, Cl. 340-172.5.
Smith, Richard E., to Xerox Corporation. Developing systems. 3,667,428, 6-6-72, Cl. 118-637.000.

Smith, Richard E., to Xerox Corporation. Sheet stripping apparatus. 3,695,756, 10-3-72, Cl. 355-3.000.
Smith, Richard F. Halogenated 2(2'-hydroxyphenyl) benzothiazoles. 3,647,812, 3-7-72, Cl. 260-304.
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Smith, Terry Edward, to American Cyanamid Company. Compatible mixtures of methyl methacrylate polymer and high molecular weight ethylene oxide polymer. 3,655,830, 4-11-72, Cl. 260-901.
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Smith, William C., to Rader Pneumatics & Engineering Co., Ltd. Pulpwood chipper. 3,682,400, 8-8-72, Cl. 241-56.000.
Smith, William C. Inflatable automobile interior construction. 3,696,449, 10-10-72, Cl. 5-94.000.
Smith, William C. End shift indicator for platform scales. 3,700,052, 10-24-72, Cl. 177-134.000.
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Smith, William F.; Mitchell, John H.; Edwards, William M.; and Cox, Phillip W., to Dow Chemical Company, The. Roll pump for highly viscous material. 3,680,975, 8-1-72, Cl. 415-74.000.
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Smith, William M.; and Wroble, Francis N., to Ensign-Bickford Company, The. Fluid supply device for vehicle safety system. 3,649,045, 3-14-72, Cl. 280-150.
Smith, William M.; Norton, Thomas W.; and Hawley, John D., to Ensign-Bickford Company, The. Electrically actuated initiator. 3,661,085, 5-9-72, Cl. 102-28.
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Smith, William Novis, Jr., to Foote Mineral Company. Method for preparing lithium sulfide compounds. 3,642,436, 2-15-72, Cl. 23-134.
Smith, William Novis, Jr., to Foote Mineral Company. Preparation of solutions of cyclohexyllithium. 3,649,701, 3-14-72, Cl. 260-665.
Smith, William Novis, Jr., to Foote Mineral Company. Process for preparing lithium compounds of the formula $LiMF_6$ wherein M is arsenic or antimony. 3,655,332, 4-11-72, Cl. 23-88.
Smith, William Novis, Jr., to Foote Mineral Company. Isomerization of allenes into their corresponding terminal acetylenic isomers. 3,671,605, 6-20-72, Cl. 260-678.000.
Smith, William Novis, Jr., to Foote Mineral Company. Vanadyl oxalate compounds and process for producing same. 3,689,515, 9-5-72, Cl. 260-429.00r.
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Snidar, Edward A., to O & S Bearing & Mfg. Co. Ball joint static seal for high angle applications. 3,635,508, 1-18-72, Cl. 287-87.
Snider, Albert L.; and Jaecks, Charles V. Fish catch indicator. 3,656,251, 4-18-72, Cl. 43-17.
Snider, George P., to Hydraslip, Inc. Hay bale vehicle. 3,688,919, 9-5-72, Cl. 214-6.00b.
Snider, Harold F.; and Gerich, Anton J., to Therm-O-Disc, Incorporated. Thermostat with double pole switch. 3,662,311, 5-9-72, Cl. 337-367.
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Snider, Roy C., Jr., to Ducharme, Joseph. Ski assembly for automotive vehicles. 3,649,040, 3-14-72, Cl. 280-14.
Snider, Theodore O.; and Teeple, Michael D., to National Automatic Tool Company, Inc. Hydro-mechanical clamp. 3,669,599, 6-13-72, Cl. 425-242.
Sniderman, Albert, to Burroughs Corporation. Variable format control from pre-printed line marks. 3,658,163, 4-25-72, Cl. 197-133.
Sniderman, Albert, to Burroughs Corporation. Slotted print type belt with angularly disposed type mounting strips. 3,667,384, 6-6-72, Cl. 101-111.000.
Sniffin, Millard T., to United States of America, Navy. Drifting mine self protection system. 3,656,447, 4-18-72, Cl. 114-240.00r.
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Snitker, Jens C. Solid composite boards having a compact core of adhesive binder and 85-98% by volume of porous, non-absorbing granulates selected from the group consisting of cork, bark, and vermiculite. 3,635,784, 1-18-72, Cl. 161-43.
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Smith, Luther W.; and Snitzer, Elias, 3,700,303.
Snitzer, Elias, to American Optical Corporation. Fiber for distortion free propagation. 3,646,462, 2-29-72, Cl. 330-4.3.
Snitzer, Elias. Laser device. 3,652,954, 3-28-72, Cl. 331-94.5.
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Snodgrass, Hugh E.; and Lauchlan, Robert L., to Uniroyal, Inc. Polyphenylene oxide resins blended with coumarone-indene resins. 3,639,499, 2-1-72, Cl. 260-829.
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Snodgrass, Kenneth William; Steele, William Henry; Wilson, Alan; and Phelps, Ross Leslie, to Victa Limited. Mufflers for internal combustion engines. 3,685,613, 8-22-72, Cl. 181-33.00k.
Snoek, Jacobus; and Naber, Jaap E., to Shell Oil Company. Method for controlling a sulfur recovery process. 3,692,480, 9-19-72, Cl. 423-239.000.
Snook, Richard K., to Research Systems Corporation, mesne. Escapement mechanisms. 3,638,209, 1-25-72, Cl. 340-174.1.
Snook, Richard K., to Diginetics Incorporated. Stenographic apparatus providing a magnetically recorded digitally encoded record. 3,665,115, 5-23-72, Cl. 178-21.000.
Snook, Richard K.; and Stout, Rodney W., to Diginetics Incorporated. Indicia system for credit cards and the like. 3,700,862, 10-24-72, Cl. 235-61.12m.
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Snow, Austin Matthew, Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing high-solids chloroprene polymer latex. 3,651,037, 3-21-72, Cl. 260-92.3.
Snow, Austin Matthew, Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing high-solids chloroprene polymer latex. 3,651,038, 3-21-72, Cl. 260-92.3.
Snow, Charles L. Cartridge type filter and method of making same. 3,680,709, 8-1-72, Cl. 210-494.000.
Snow, Clarence P. Conveyor system. 3,638,780, 2-1-72, Cl. 198-130.
Snow, Gerald A., to United Industrial Syndicate, Inc. Apparatus for forming articles from thermoplastic sheet material. 3,632,250, 1-4-72, Cl. 18-109.
Snow, Gerald A.; Doughty, Harold A.; Allard, Charles E.; and Noonan, Charles B. Indexing means and conveyors for use therewith. 3,688,963, 9-5-72, Cl. 226-162.000.
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Snow, Harold Forest, to Borden, Inc. Method and apparatus for cleaning clams. 3,646,638, 3-7-72, Cl. 17-53.
Snow, James A. Apparatus for cutting strips from vehicle tires. 3,701,296, 10-31-72, Cl. 82-54.000.
Snow, John F.; and Clough, Roy L., Jr., to Xodar Corporation. Aerating system. 3,664,647, 5-23-72, Cl. 261-30.000.
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Snow, Ralph K., to CMI Corporation. Cross slope control of mobile machinery. 3,637,026, 1-25-72, Cl. 172-4.5.
Snow, Ralph K., Jr.: *See—*
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Snow, Thomas W.: *See—*
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Snow, William W. Magnetically controlled electron tube function generator. 3,660,770, 5-2-72, Cl. 328-253.
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Snowden, Bryan T.: *See—*
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Snowden, Bryan T., to Food Equipment, Inc. Vaporizing technique for treatment of animal carcasses. 3,657,768, 4-25-72, Cl. 17-11.2.
Snowdon, Charles. Pressure transducers. 3,690,148, 9-12-72, Cl. 73-37.000.
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Snoy, Joseph B.; and Shull, Bradford K., to Twin Disc, Incorporated. Transmission having hydraulically actuated clutches with inertia brake. 3,651,904, 3-28-72, Cl. 192-4.
Snoy, Joseph B.; and Shull, Bradford K., to Twin Disc, Incorporated. Selector valve assembly with mechanical latch. 3,667,501, 6-6-72, Cl. 137-612.100.
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Snyder, Carl J., to Westinghouse Electric Corporation. Magnetodiode pulse initiator. 3,689,836, 9-5-72, Cl. 324-117.00r.
Snyder, Carl R., to Esquire Inc. DC Detection circuit. 3,644,783, 2-22-72, Cl. 315-127.
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Snyder, Clermont J.; and Moore, Jack P., to Anaconda Wire and Cable Company. Descaling copper rods. 3,659,830, 5-2-72, Cl. 266-3.
Snyder, Clifford H., Jr. Bayonette lock coupling. 3,649,052, 3-14-72, Cl. 285-38.
Snyder, Clifford H., Jr. Tubing coupling. 3,649,053, 3-14-72, Cl. 285-110.
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Snyder, David M., to Muncie Parts Mfg. Co., Inc. Reservoir assembly. 3,682,197, 8-8-72, Cl. 137-590.000.
Snyder, Ernest L., to DTM Products Incorporated. Cord storing face plate. 3,689,868, 9-5-72, Cl. 339-119.00c.
Snyder, Frank M. Stabilized antibiotic and method. 3,696,189, 10-3-72, Cl. 424-38.000.
Snyder, Gary L. Convertible water sprinkling device. 3,679,136, 7-25-72, Cl. 239-188.000.
Snyder, George E. Automatic baking oven for pretzels. 3,640,207, 2-8-72, Cl. 99-327.
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Snyder, Harold I.; and Trexler, Richard R. Plastic bandage or splint. 3,674,021, 7-4-72, Cl. 128-90.000.
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Snyder, Paul V., to General Electric Company. Electric oven toaster construction. 3,693,538, 9-26-72, Cl. 99-447.000.
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Snyder, Robert L., to American Standard, Inc. Bimetallic elements. 3,678,757, 7-25-72, Cl. 73-363.500.
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Sobel, Johannes; Himmelmann, Wolfgang; and Meckl, Heinz, to Agfa-Gevaert Aktiengesellschaft. Process of hardening photographic gelatin layers with a sulfonyl ester or a sulfonamide. 3,689,274, 9-5-72, Cl. 96-111.000.

Sobel, Lucien; Parvi, Ludovic; and Isard, Arsene, to Ugine Kuhlmann. Flame retardant epoxy resins. 3,707,525, 12-26-72, Cl. 260-47.0ea.

Sobel, Lucien; Parvi, Ludovic; and Isard, Arsene, to Ugine Kuhlmann. Polyhalogenated aromatic amines. 3,707,561, 12-26-72, Cl. 260-370.700.

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Soberski, George, to Eaton Yale & Towne, Inc. Temperature responsive idling speed control device for internal combustion engine. 3,680,533, 8-1-72, Cl. 123-117.00r.

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Sobieski, John C., to General Electric Company. Manufacture of lamps of the compact arc discharge type. 3,685,880, 8-22-72, Cl. 316-19.000.

Sobin, Ben A.; Routien, John B.; Rao, Koppaka V.; Marsh, William S.; and Garretson, Aline L., to Pfizer Inc. Mithramycins as a transplanted tumor inhibiting agents. 3,646,194, 2-29-72, Cl. 424-119.

Sobkow, William J., to Ford Motor Company. Motor vehicle restraint device. 3,702,706, 11-14-72, Cl. 280-150.0ab.

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Sobota, Herbert; Siepmann, Walter, Sr.; and Siepmann, Walter, Jr., to Siepmann-Werke KG. Protective mail mesh. 3,696,853, 10-10-72, Cl. 152-231.000.

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Societa Italiana Telecommunicazioni S.p.A.: *See—*
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Societa Italiana Telecomunicazioni Siemens S.p.A.: *See—*
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Societa per l'Esercizio Dell Istituto Sperimentale Dei Metalli Leggeri: *See—*
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Societa per l'Esercizio dell'Istituto Sperimentale dei Metalli Leggeri, S.p.A.: *See—*
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Societe a Responsabilite Limitee dite Altic: *See—*
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Societe a Responsabilite limitee dite SERAM: *See—*
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Societe a Responsabilite Limitee Doittau Products Metallurgie: *See—*
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Societe a Responsabilite Limitee: Forges & Trefileries de Conflandey: *See—*
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Societe Alsacienne de Constructions: *See—*
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Societe Alsacienne de Constructions Atomiques de Telecommunication et d'Electronique "Alcatel": *See—*
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Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique 'Alcatel': *See—*
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Societe Alsacienne de Constructions Mecaniques de Mulhouse: *See—*
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Societe Anglade & Cie: *See—*
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Societe Anonyme Activit: *See—*
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Societe Anonyme Alcatel-Heurtey: *See—*
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Societe Anonyme de Recherches de Mechanique: *See—*
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Societe Anonyme de Telecommunications: *See—*
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Societe Anonyme de Traverses en Beton Arme Systeme Vagneux: *See—*
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Societe Anonyme de Vehicules Industriels et d'Equipements mecaniques S.A.V.I.E.M.: *See—*
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Societe Anonyme des Entreprises: *See—*
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Societe Anonyme des Etablissements NEU: *See—*
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Societe Anonyme des Hauts Fourneaux de la Chiers: *See—*
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Societe Anonyme des Usines Chausson: *See—*
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Societe Anonyme d'Explosifs Industriels-Celtite: *See—*
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Societe Anonyme dite Ciments: *See—*
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Societe Anonyme dite Etablissements Cornard & Cie: *See—*
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Societe Anonyme dite Francelco: *See—*
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Societe Anonyme dite: Ameco S.A.: *See—*
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Societe Anonyme dite: Aquitaine-Organico: *See—*
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Societe Anonyme dite: Bronzavia: *See—*
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Societe anonyme dite: Cefilac: *See—*
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Societe anonyme dite: Compagnie Gervais-Danone: *See—*
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Societe Anonyme dite: Jumont-Schneider: *See—*
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Societe Anonyme dite: Laboratoire Roger Bellon: *See—*
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Societe Anonyme dite: L'Oreal: *See—*
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Societe Anonyme dite: Roussel-UCLAF: *See—*
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Societe Anonyme dite: Roussel-UCLAF, mesne: *See—*
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Societe Anonyme dite: Societe Industrielle pour la Fabrication des Antibiotiques (S.I.F.A.): *See—*
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Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine: *See—*
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Societe Anonyme dite: Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, S.N.E.C.M.A.: *See—*
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Societe Anonyme dite: Vallourec (Usines a Tubes de Lorraine-Escaut et Vallourec Reunies): *See—*
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Societe Anonyme Francaise: *See—*
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Societe Anonyme Francaise des Appareils Automatiques Taximetres-Taxiphones S.A.F.A.A.: *See—*
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Societe Anonyme Francaise du Ferodo: *See—*
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Societe Anonyme Heurtey: *See—*
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Societe Anonyme Poclain: *See—*
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Societe Anonyme pour l'Equipement Electrique des Vehicules S.E.V. Marchal: *See—*
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Societe Anonyme Pronal: *See—*
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Societe Anonyme Richier: *See—*
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Societe Anonyme, Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique "Alcatel": *See—*
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Societe Anonyme, Societe Minere et Metallurgique de Penanoya: *See—*
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Societe Anonyme STOP: *See—*
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Societe Anonyme Telecommunications Radioelectriques et Telephoniques, T.R.T.: *See—*
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Societe Anonyme Thimonnier & Cie: *See—*
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Societe Anonyme Ugine Kuhlmann: *See—*
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Societe Anonyme Usines Emile Hennicot Court-Saint-Etienne (Belgium): *See—*
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Societe Anonyme Usines Emile Henricot: *See—*
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Societe Anonyme: Centre European de Recherches Mauvernay: *See—*
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Societe Anonyme: Ciments Lafarge: *See—*
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Societe Anonyme: Les Produits Organiques du Santerre Orsan: *See—*
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Societe Anonyme: Ugine Kuhlmann: *See—*
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Societe Anonymet dite: L'Oreal: *See—*
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Societe Argenton, Societe Anonyme: *See—*
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Societe Belge pour l'Industrie Nucleaire S.A.: *See—*
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Societe Boussoirs-Souchon-Neuvesel: *See—*
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Societe Chimique de Gerland: *See—*
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Societe Chimique de la Grande Paroisse, Azote et Produits Chimiques: *See—*
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Societe Chimique des Charbonnages: *See—*
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Societe Chimique des Charbonnages tour Aurore: *See—*
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Societe Chimique des Charbronnages: *See—*
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Societe Civile d'Inventions Idees: *See—*
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Societe Civile dite de Centrifugation: *See—*
Peytavin, Pierre; and Babel, Louis, 3,702,630.

Societe Civile Textile Dite Socitex: *See—*
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Societe Cnmp-Berthiez: *See—*
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Societe d'Aerodynamique et de Thermodynamique Francaise en abrege S.O.F.R.A.I.R.: *See—*
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Societe d'Appareillage Electrique Saparel: *See—*
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Societe d'Appareils de Controle et d'Equipment des Moleurs S.A.C.E.M.: *See—*
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Societe d'Applications Generales d'Electricite et de Mecanique: *See—*
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Societe d'Applications Generales d'Electricite et de Mecanique Sagem: *See—*
Claret, Rene, 3,657,637.

Societe d'Assistance Technique pour Produits Nestle S.A.: *See—*
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Mishkin, Abraham Rudolph; and Symbolik, William Stephen, 3,633,283.
Mourey, Jean-Jacques; and Badertscher, Ernest, 3,705,143.
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Societe de Conditionnement en Aluminium SCAL GP: *See—*
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Societe de Conditionnement en Aluminum: *See—*
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Societe de Construction et d'Exploitation de Materiels et Moteurs S.C.E.M.M.: *See—*
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Societe de Constructions Mecaniques de Creil: *See—*
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Societe de Constructions Mecaniques Panhard & Levassor: *See—*
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Societe de Fabrication d'Instruments de Mesure (SFIM): *See—*
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Societe de l'Aerotrain: *See—*
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Societe de Participations Verrieres: *See—*
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Societe de Produits Chimiques Marles-Kuhlmann: *See—*
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Societe de Recherches et de Realisations Industrielles S.R.R.I. (Societe Anonyme): *See—*
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Societe de Recherches Industrielles S.O.R.I.: *See—*
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Societe de Traitements Electrolytiques et Electrothermigues (S.T.E.L.): *See—*
Moulin, Jean; Doucerain, Jacques; and Dallet, Bernard, 3,632,948.
Societe de Traitements Electrolytiques et Electrothermiques (S.T.E.L.): *See—*
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Societe de Wendel et Compagnie: *See—*
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Societe des Accumulateurs Fixes et de Traction (Societe Anonyme): *See—*
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Croissant, Pierre Michel Rene; Armbruster, Jean-Claude; and Chaumeau, Andree, 3,697,327.
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Societe des Accumulateurs Fixes et de Traction (Societe Anonyme) Pont de la Folie: *See—*
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Societe des Aciers Fins de l'Est: *See—*
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Societe des Fabrications Biraghi-Entrepose: *See—*
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Societe des Fonderies de Pont-A-Mousson: *See—*
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Societe des Grands Travaux de Marseille: *See—*
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Societe des Lunetiers: *See—*
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Societe des Lunetiers, Societe en Commandite simple a Capital Variable: *See—*
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Societe des Mines et Fonderies de Zinc de la Vieille Montagne S.A.: *See—*
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Sodergard, Bengt Martin, to Allmanna Svenska Elektriska Aktiebolaget. Guide tube for a control rod in a nuclear reactor. 3,650,895, 3-21-72, Cl. 176-44.
Soderkvist, Lars O. A.: *See—*
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Soderquist, Frederick J.; Kehde, Howard; and Martz, Lyle E., to Dow Chemical Company, The. Electrical resistance heated reactors and dehydrogenation of alkyl benzenes. 3,652,699, 3-28-72, Cl. 260-669.
Soderqvist, Karl Gustav, to Dentalaktiebolaget. Dental soaking for soaking water, blood, saliva, and the like, from the mouth of patients. 3,657,819, 4-25-72, Cl. 32-33.
Soderstrom, Gill Gunnar; Nilsson, Bertil; and Stahl, Nils Evert Johan. Signal converter. 3,670,146, 6-13-72, Cl. 235-61.11d.
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Sodolev, Valerian Mikhailovich: *See—*
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Soe, Hartvig, to Misomex Aktiebolag of Ellen Keys Gata. Arrangement in ruling machine. 3,686,763, 8-29-72, Cl. 33-19.00a.
Soeda, Shigeki; and Nemoto, Hidetaro, to Nippon Kokan Kabushiki Kaisha. Reciprocating mold continuous casting apparatus. 3,695,341, 10-3-72, Cl. 164-260.000.
Soehner, Gerhard; and Hoehne, Gerd, to Bosch, Robert, G.m.b.H. Electromechanical transducer assembly. 3,648,155, 3-7-72, Cl. 323-94.
Soehngen, John W., to Celanese Corporation. Method of producing spray spun nonwoven sheets. 3,676,239, 7-11-72, Cl. 156-16.00f.
Soehngen, John William; Wagner, William Sherwood; Jamison, Saunders Eliot; and Canfield, Dale Kelley. Process of making tobacco smoke filters from extruded polymer and binder. 3,704,192, 11-28-72, Cl. 156-167.000.
Soellner, Arthur M.; Sprouse, James F.; and Raju, Triponithura A., to Avco Corporation. Electron emitter comprising metal oxide-metal contact interface and method for making the same. 3,663,857, 5-16-72, Cl. 313-339.000.
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Soethje, Guenter, to Rehau Plastiks of Canada Limited. Device for providing hollow plastic bodies, and especially plastic pipes, with a reinforced sleeve-end provided with a bead. 3,706,519, 12-19-72, Cl. 425-389.000.
Soffer, Jacques; and Lhommelet, Robert, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). Circuit for a direct current electric motor which is controlled by thyristors both while running and while being braked. 3,697,845, 10-10-72, I. 318-341.
Sofia, George V. Electrically heated scraping tool. 3,673,383, 6-27-72, Cl. 219-227.000.
Sofield, Howard S. Adjustable string peep. 3,703,770, 11-28-72, Cl. 33-265.000.
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Sogner, Dominik, to Chemiefaser Lenzing Aktiengesellschaft. Measuring installation. 3,701,281, 10-31-72, Cl. 73-351.000.
Soh, Dohgi, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Steam temperature control system. 3,643,634, 2-22-72, Cl. 122-483.
Sohlemann, Just; and Muller, Gerhard, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Extrusion press with a hydro-mechanical rotary drive for the working spindle. 3,681,961, 8-8-72, Cl. 72-82.000.
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Sohn, Jorg Alfred, to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic shutter with an electronic timing device. 3,645,190, 2-29-72, Cl. 95-53.
Sohn, Wolfgang; and Wicher, Hans, to Sohn, Hermann, KG Maschinenfabrik. Method and apparatus for mixing materials. 3,648,986, 3-14-72, Cl. 259-104.
Sohne and Ernest Beckert Nadelfabrik Commandit-Gesellschaft: *See—*
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Soichet, Samuel. Intra uterine device and injector thereof. 3,678,927, 7-25-72, Cl. 128-130.000.
Soifer, Martin T.: *See—*
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Soininen, Mauri Aatos: *See—*
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Sokolov, Anatoly Danilovich; Danilkin, Nikolai Nikiforovich; and Kanavets, Ivan Fedorovich. Material tester. 3,686,933, 8-29-72, Cl. 73-101.000.
Sokolov, David A., to Xerox Corporation. Lithographic inking apparatus. 3,690,252, 9-12-72, Cl. 101-147.000.

Sokolov, Evgeny Vyacheslavovich; Yashkin, Eduard Petrovich; Sysoev, Vadim Ivanovich; Kozhevnikov, Rady Savvich; Chabanov, Alim Ivanovich; Shinkarenko, Mikhail Ivanovich; Grinchuk, Petr Stepanovich; Fomin, Georgy Georgievich; and Rusaev, Vladimir Ivanovich.Device for automatic thickness control of rolled strips. 3,686,907, 8-29-72, Cl. 72-6.000.

Sokolov, Georgy Petrovich: *See—*
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Sokolow, Leonard L., to Consolidated Film Industries. Print color and intensity correction method. 3,702,733, 11-14-72, Cl. 355-77.000.

Sokolowski, Robert C., to Kimberly-Clark Corporation. High temperature and pressure bonding of urethane foam. 3,677,858, 7-18-72, Cl. 156-219.000.

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Soldatos, Anthony C., to Union Carbide Corporation. Phenolic resin compositions modified with an epsilon caprolactone. 3,639,658, 2-1-72, Cl. 260-59.

Soldatos, Anthony C., to Union Carbide Corporation. Phenolic resin compositions modified with Group II metal hydroxides or oxides and a caprolactone. 3,640,958, 2-8-72, Cl. 260-59.

Soldatos, Anthony C.; and Burhans, Allison S., to Union Carbide Corporation. Curable polyepoxide compositions. 3,686,359, 8-22-72, Cl. 260-836.000.

Soldner, Richard Ernest, to Siemens Aktiengesellschaft. Ultrasonic image producing instrument. 3,693,414, 9-26-72, Cl. 73-67.900.

Sole, Lloyd H.: *See—*
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Sole, Ramon, to Fischer, George, Ltd. Thread tensioning and balloon control means for the unwinding of yarn from supply packages on weaving and other textile machines. 3,632,062, 1-4-72, Cl. 242-147.

Sole, Ramon; and Othmar, Bruhwiler, to Fischer, Georg, A.G. Carries for filling insertion in a weaving machine. 3,638,686, 2-1-72, Cl. 139-127.

Solheim, Karsten. Correlated golf club set. 3,655,188, 4-11-72, Cl. 273-77.

Soli, Giorgio, to United States of America, Navy. Bacterial lamp. 3,674,648, 7-4-72, Cl. 195-127.000.

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Solimene, Americo J. Puzzle game board. 3,633,913, 1-11-72, Cl. 273-132.

Solitanner, Kaarlo H.: *See—*
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Sollich, Helmut, to Sollich oHG Industriestrasse. Apparatus for processing and conveyance of sticky materials. 3,692,451, 9-19-72, Cl. 425-223.000.

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Sollman, George H.: *See—*
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Sollman, George H.; and Dixon, Samuel J., to Honeywell Inc. Four phase encoder system for three frequency modulation. 3,671,960, 6-20-72, Cl. 340-347.0dd.

Sollman, George H., to Honeywell Inc. Two phase encoder system for three frequency modulation. 3,678,503, 7-18-72, Cl. 340-347.0dd.

Sollman, George H.; and Dixon, Samuel J., to Honeywell Inc. Two phase encoder system for three frequency modulation. 3,697,977, 10-10-72, Cl. 340-347.0dd.

Sollogoub, Nicolas; and Bloc, Jean A., to Agence Katimavik Inc. Display system for moving subway trains. 3,704,064, 11-28-72, Cl. 352-100.000.

Sollott, Gilbert P.; and Peterson, William R., Jr., to United States of America, Army. Explosive pyrotechnic complexes of ferrocene and inorganic nitrates. 3,673,015, 6-27-72, Cl. 149-29.000.

Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavrill Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grgorievich; and Lamin, Vladimir Ivanovich. Wheel excavators for digging channels and trenches having variably angled slopes. 3,681,863, 8-8-72, Cl. 37-97.000.

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Solomito, Joseph T. Stone slotting machine. 3,675,972, 7-11-72, Cl. 299-41.000.
Solomka, Monroe M.; and Montoya, Jose M. Genua, to Dow-Unquinesa S.A. Process for the manufacture of titanium dioxide pigment having high specific resistance. 3,686,010, 8-22-72, Cl. 106-300.000.
Solomka, Monroe M.; and Fernandez, Gabriel Puente, to Dow-Unquinesa S.A. Process of preparing titanium pigment of improved resistance to photo-reduction. 3,695,907, 10-3-72, Cl. 106-300.000.
Solomka, Monroe M.; and Aguirre, Enrique Renteria, to Dow-Unquinesa S.A. Automated process for the hydrolysis of titanium sulfate solutions. 3,706,829, 12-19-72, Cl. 423-615.000.
Solomon, Arieh; and Davidovitch, Jecheskel, to British & Foreign Tobacco Co., Ltd., The. Transmission mechanism. 3,633,938, 1-11-72, Cl. 280-255.
Solomon, Irvine J.; Keith, James N.; and Kacmarek, Andrew J., to United States of America, Air Force. Process for preparing compounds containing the OOF group. 3,634,483, 1-11-72, Cl. 260-453.
Solomon, Jack. Educational game apparatus. 3,633,914, 1-11-72, Cl. 273-135.
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Solomon, Nathan L. Hair curler. 3,631,868, 1-4-72, Cl. 132-39.
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Solomon, Nathan L. Magnetic tape spool and cartridge. 3,675,867, 7-11-72, Cl. 242-55.19a.
Solomon, Nathan L. Hair curler. 3,702,119, 11-7-72, Cl. 132-41.00b.
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Solomon, Raymond, to Fairchild Camera and Instrument Corporation. Push-pull structure for solution epitaxial growth of III-V compounds. 3,664,294, 5-23-72, Cl. 118-7.000.
Solomonov, Nikolai Nikolaevich; Ishanin, Vladimir Pavlovich; and Apsalons, Talvalds-Olavs Arnoldovich. Device for securing a valve in the neck of an aerosol vessel. 3,668,824, 6-13-72, Cl. 53-330.000.
Solori, Fermo, to Solari & C./Udine S.p.A. Carry-over mechanism with variable ratios. 3,681,913, 8-8-72, Cl. 58-4.000.
Solovieff, George B.; Solovieff, Paul G.; and Solovieff, Stephen W. High security door lock. 3,702,549, 11-14-72, Cl. 70-134.000.
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Soloway, Samuel B.; and Morales, Juan G., to Shell Oil Company. O-(Halovinyl) phosphorodichloridothioates. 3,701,818, 10-31-72, Cl. 260-957.000.
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Solt, Paul E., to Fuller Company. Feed control system for processing equipment. 3,638,328, 2-1-72, Cl. 34-20.
Solt, Paul E., to Fuller Company. Airlift blending apparatus. 3,647,188, 3-7-72, Cl. 259-4.
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Somerset, Sherman J., to International Telephone and Telegraph Corporation. Coaxial connector. 3,701,086, 10-24-72, Cl. 339-177.00r.
Somervell, James A., to Micromation Systems Inc. Color photography from cathode ray tubes and other radiating areas. 3,665,420, 5-23-72, Cl. 340-172.5.
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Sommerfeld, Eugene G. Polymeric dispersion of a diene-acrylonitrite graft copolymer with a different graft copolymer. 3,676,526, 7-11-72, Cl. 260-876.00r.
Sommerfeld, Louis. Method of assembling a frame and panel. 3,689,940, 9-12-72, Cl. 29-157.00r.
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Song, John, to American Cyanamid Company. Hindered phenol sulfide antioxidants for polymers. 3,660,352, 5-2-72, Cl. 260-45.95.

Song, John, to American Cyanamid Company. 1,3,4-Thiadiazole-bridged thiomethylenephenol antioxidants. 3,676,449, 7-11-72, Cl. 260-302.0sd.
Song, John, to American Cyanamid Company. Hydrocarbon-bridged thiomethylenephenol antioxidants. 3,704,326, 11-28-72, Cl. 260-609.00f.
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Soodalter, Arnold. Sleeving apparatus. 3,657,861, 4-25-72, Cl. 53-197.

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Menchikov, Leonid Petrovich; Kopylov, Kim Ivanovich; Okun, Evsei Lvovich; Smirnov, Vasily Mikhailovich; Gavrikov, Viktor Stepanovich; Fridman, Ilya Davidovich; Markov, Vyacheslav Evgenievich; and Sopin, Alexandr Alexandrovich, 3,651,301.

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Sordoni, William B.; and Westawski, Frank S., to Sterling Engineering and Manufacturing Company. Creel adapter. 3,633,844, 1-11-72, Cl. 242-130.

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Sorell, Henry P.; Pomazak, Eugene; and Rygg, Sven, to Borden Inc. Pressure sensitive adhesive tape. 3,679,458, 7-25-72, Cl. 117-68.500.

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Sorensen, Clarence A.; and Deremo, Edwin J., to Gardner-Denver Company. Low inertia motor for fluid operated tool. 3,700,363, 10-24-72, Cl. 418-270.000.

Sorensen, George C. Combustion type power plant having dual function cylindrial rotor and steam injection. 3,688,496, 9-5-72, Cl. 60-39.360.

Sorensen, Leif Erik, to Anstalt fur Elektrohydraulische Anlagen. Hydraulic systems. 3,678,684, 7-25-72, Cl. 60-19.000.

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Sorensen, Robert M., to Ocean Pollution Control, Inc., mesne. Immiscible liquid separating apparatus. 3,662,892, 5-16-72, Cl. 219-242.

Sorenson, Billy L.; and Scott, Ray A., to Coats Company, Inc., The. Bead expander. 3,669,175, 6-13-72, Cl. 157-1.100.

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Sorenson, Wayne P., to Kimberly-Clark Corporation. Adhesive curing device. 3,694,927, 10-3-72, Cl. 34-121.000.

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Sorteberg, Johannes. Negatively preloaded thrust unit. 3,666,257, 5-30-72, Cl. 267-170.000.

Sorteberg, Johannes. Non-bleed pilot valve. 3,672,629, 6-27-72, Cl. 251-61.200.

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Sosa, Pedro Baez, to Efficient Instruments Corporation. Remote control for operating vehicle door latches. 3,689,116, 9-5-72, Cl. 280-146.000.

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Sosalla, Harry; Meusburger, Lyle M.; and Jarnagin, Max L., to Noble Manufacturing Company. Foldable implement cart with forwardly tacking means for the cable arm retaining means. 3,700,040, 10-24-72, Cl. 172-311.000.

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Sothen, Andrew G.; and Spaulding, Richard S. Screw driven support for appliances or the like. 3,643,919, 2-22-72, Cl. 254-98.

Sotheran, Arthur; and Lewis, John S., to Rolls-Royce Limited. Reheat combustion apparatus for by-pass gas turbine engines. 3,633,362, 1-11-72, Cl. 60-39.72.

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Sotolongo, Thomas J., to Thomas & Betts Corporation. Liquid tight strain relief connector. 3,667,783, 6-6-72, Cl. 285-161.000.

Sotome, Hiromi, to Nippon Gakki Seizo Kabushiki Kaisha. Loudspeaker. 3,645,356, 2-29-72, Cl. 181-32.

Sotome, Hiromi, to Nippon Gakki Seizo Kabushiki Kaisha. Loudspeaker having annular diaphragm with double voice coil. 3,665,124, 5-23-72, Cl. 179-115.5dv.

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Soulant, Herman A., Jr., to United States of America, Navy. Magnetic linearity tensiductor for measuring tension in a running line. 3,648,161, 3-7-72, Cl. 324-34.

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Todd, Chester F., 3,673,039.
West, David H.; and Stone, Kenneth R., 3,672,199.
Southworth, Donovan A.: *See—*
Peterson, Wesley D.; and Southworth, Donovan A., 3,699,483.
Southworth, Glen R., to Colorado Video, Incorporated. Television bandwith compression and expansion system. 3,683,111, 8-8-72, Cl. 178-6.000.
Southworth Machine Company: *See—*
Thompson, Gene C.; Radomski, Joseph E.; and Wilson, David E., 3,680,220.
Southworth, Richard V.: *See—*
Culbert, Robert M.; and Southworth, Richard V., 3,641,744.
Southworth, Ronald W., to U.S. Plywood-Champion Papers Inc. Board transfer device. 3,680,692, 8-1-72, Cl. 209-74.00m.
Southworth, Wallace D.: *See—*
Wilson, Joseph F.; and Southworth, Wallace D., 3,692,511.
Souviron, Paul: *See—*
Cluzel, Jean; and Souviron, Paul, 3,661,985.
Souza, Augustine A., to Polygon Concepts. Produce shipping container. 3,700,137, 10-24-72, Cl. 220-97.00e.
Souza, Carlos. Sanitary throwaway refuse container. 3,632,038, 1-4-72, Cl. 229-37.
Souza, Joseph G., to Cable Electric Products, Inc. Sleeve wrapper construction. 3,666,089, 5-30-72, Cl. 206-52.00w.
Souza, Ronald: *See—*
Dunne, Owen F.; Hebert, William E.; Souza, Ronald; and Wargat, Edward, 3,696,770.
Sovcor Electronique: *See—*
Boursin, Rene A., 3,697,818.
Sovereigh, Gerald W.: *See—*
Self, Joseph A.; Sovereigh, Gerald W.; and Peacock, Alton E., 3,663,352.
Sovereign Finanz A.G.: *See—*
Gulliksson, Karl Ivar Ake, 3,650,477.
Soves Limited: *See—*
Rooke, Sydney William, 3,651,940.
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Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leeniex, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gul-

bis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreevich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.

Sovex Limited: *See—*
Rooke, Sydney William; and Coston, Ronald Francis, 3,651,967.

Soviche, Gilles Andre Paul; Bues, Jean Pierre; Pavlin, Cyrille Francois; and Mace, Edouard Maurice Eugene Aime, to Entreprise de Recherches et d'Activites Petrolieres Elf, and Bertin & Cie. Regulating device in which the pressure of a fluid is regulated. 3654,945, 4-11-72, Cl. 137-81.5.

Soward, Dallas V.: *See—*
Harris, Carl R.; Banks, Robert B.; and Soward, Dallas V., 3,701,279.

Sowards, Donald M., to Du Pont de Nemours, E. I., and Company. Dispersed phase activated and stabilized metal catalysts. 3,666,412, 5-30-72, Cl. 23-162.

Sowards, Edward W. Ventilating system. 3,649,972, 3-21-72, Cl. 4-211.

Sowers, John E.: *See—*
Maxwell, Herris M.; Sowers, John E.; and Laidman, John Neil, 3,639,142.

Sowko, John J., Sr., to Carmet Company. Method of making powder composites. 3,672,881, 6-27-72, Cl. 75-208.00r.

Soyland, Ingebret; and Soyland, Kristian. Means for regulating power for pumps. 3,695,783, 10-3-72, Cl. 417-216.000.

Soyland, Kristian: *See—*
Soyland, Ingebret; and Soyland, Kristian, 3,695,783.

S.p.A. Antonio Ferrari & Figli: *See—*
Ferrari, Giuseppe, 3,664,551.

S.p.A. Virginio Rimoldi & Co.: *See—*
Marforio, Nerino, 3,658,020.

SPA-Societa Prodotti Antibiotici S.p.A.: *See—*
Notarianni, Aurelio Filippo, 3,632,585.
Notarianni, Aurelio Filippo; and Ghielmetti, Giuseppe, 3,639,594.

Spaargaren, Klaas; and Bijl, Aart, to Shell Oil Company. Control of a process variable by a computer and a controller which replaces the computer. 3,665,172, 5-23-72, Cl. 235-150.1.

Space Ordnance Systems Inc., mesne: *See—*
Colburn, William H., Jr., 3,703,144.
Farrand, Weston B.; Gardner, John N.; and Valenti, Robert M., 3,686,934.

Space Research Corporation: *See—*
Bull, Gerald V.; and Palacio, Luis M., 3,695,181.

Space Sciences Incorporated: *See—*
Aisenberg, Sol; and Chang, Kuo Wei, 3,660,700.

Space Tool, Inc.: *See—*
Halls, Kenneth F.; and Brickley, Alfred H., 3,640,159.

Spacek, George Ctirad. High frequency converter. 3,638,126, 1-25-72, Cl. 325-446.

Spacek, George Ctirad. Fuel consumption indicator. 3,673,863, 7-4-72, Cl. 73-114.000.

Spacetac Incorporated: *See—*
Cocca, Theodore F., 3,699,650.
Fiore, Anthony N.; and McCarron, John D., 3,648,181.
Shute, Donald W., 3,671,781.

Spacht, Ronald B., to Goodyear Tire & Rubber Company, The. Mixture of mono and di-orthotertiary hexyl para-cresols. 3,682,904, 8-8-72, Cl. 260-624.00r.

Spacht, Ronald B. N-Phenyl-N'-salicyloyl-phenylene diamines. 3,703,552, 11-21-72, Cl. 260-559.000.

Spacil, Henry S.: *See—*
Tedmon, Craig S., Jr.; and Spacil, Henry S., 3,639,177.

Spacil, Henry S., to General Electric Company. Solid oxygen-ion electrolyte cell for the dissociation of steam. 3,635,812, 1-18-72, Cl. 204-193.

Spacko, Roman F.: *See—*
Nelson, Axel B.; and Spacko, Roman F., 3,656,499.

Spada, Bartholomes J.: *See—*
Lipson, Herbert G.; and Spada, Bartholomes J., 3,633,573.

Spade, Kenneth L.: *See—*
Anderson, Richard M.; Parrish, Hushel L., Jr.; and Spade, Kenneth L., 3,691,786.

Spade, Robert L., to Belden Corporation. Coaxial cable. 3,688,016, 8-29-72, Cl. 174-36.000.

Spaderna, Conan H. Universal electric connector. 3,699,499, 10-17-72, Cl. 339-91.00r.

Spaderna, Conan Henry. Snap action electric switch. 3,665,131, 5-23-72, Cl. 200-67.00b.

Spadini, Paolo. Alarm wrist-watch. 3,638,418, 2-1-72, Cl. 58-57.5.

Spadt, Walter, Jr.: *See—*
Bradley, Thomas E.; and Spadt, Walter, Jr., 3,682,551.

Spaenig, Hermann: *See—*
Adolphi, Heinrich; Steimmig, Anna; and Spaenig, Hermann, 3,641,248.
Adolphi, Heinrich; Steimmig, Anna; and Spaenig, Hermann, 3,681,375.

Spaenig, Hermann; Steimmig, Anna; and Sand, Jakob, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of substituted imidazoles. 3,652,581, 3-28-72, Cl. 260-309.2.

Spaeth, Albert J.: *See—*
Harlan, Warren H.; and Spaeth, Albert J., 3,690,484.

Spaeth, Claus; and Wilhelm, Gunter, to Villeroy Boch Keramische Werke, KG. Apparatus for grinding the bottom of drinking glasses. 3,688,448, 9-5-72, Cl. 51-105.00r.

Spaeth, Irvin J., to Evans Products Company. Railway brake gear bottom rod guard. 3,703,225, 11-21-72, Cl. 188-210.000.

Spahn, Walter: *See—*
Stahl, Gerhard; Spahn, Walter; Fischer, Willi; and Auth, Franz, 3,642,258.

Spahn, Walter, to Messer Griesheim GmbH. Piston check valve. 3,684,006, 8-15-72, Cl. 165-97.000.

Spahn, Walter. Partition wall seal between the feed and discharge tubes of a column plate. 3,686,075, 8-22-72, Cl. 202-158.000.

Spaiches, Albert E., to Schlegel Manufacturing Company, The. Window glass glazing system. 3,694,985, 10-3-72, Cl. 52-400.000.

Spaid, William L. Digital capacitance meter. 3,644,751, 2-22-72, Cl. 307-228.

Spain, Byron: *See—*
Sullivan, Charles E., 3,685,538.

Spain, Raymond G., to Monsanto Company. Carbon composite structure including a band of helically wound carbon fibers. 3,639,197, 2-1-72, Cl. 161-35.

Spain, Robert J., to Compagnie Internationale pour l'Informatique. Binary coded information stores. 3,699,550, 10-17-72, Cl. 340-174.0tw.

Spain, Roy C. Machine for manufacturing a lock tumbler. 3,643,324, 2-22-72, Cl. 29-566.

Spainhour, Bettye G.; and Willis, Jack B. Vehicle litter receptacle. 3,690,446, 9-12-72, Cl. 206-1.000.

Spalding, A. G., & Bros. Inc.: *See—*
Richard, Henry P., 3,640,028.

Spalding, Donald P.; and Close, James G. Coat hanger having theft alarm. 3,668,680, 6-6-72, Cl. 340-280.000.

Spalding, Georg: *See—*
Beck, Otto; and Spalding, Georg, 3,700,854.

Spalding, James R., to General Electric Company. Friction coupling. 3,640,363, 2-8-72, Cl. 192-65.

Spalding, Richard Elliot Thornton, to American Cyanamid Company. Composite laminate of water-extended unsaturated polyester. 3,639,149, 2-1-72, Cl. 117-76.

Spalding, Thomas P. Ignition system. 3,646,922, 3-7-72, Cl. 123-117.

Spaleck, Max, G.m.b.H.: *See—*
Ditscherlein, Friedhold, 3,638,297.

Spalek, Raymond J.: *See—*
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B., 3,658,981.

Spaleny, George R.: *See—*
Staneck, Robert W.; and Spaleny, George R., 3,688,959.

Spall, Charles J., Jr.: *See—*
Bedard, Peter R.; and Spall, Charles J., Jr., 3,649,962.

Spalla, Celestino: *See—*
Amici, Alba-Maria; Minghetti, Anacleto; Scotti, Tullio; and Spalla, Celestino, 3,658,653.

Spalti, Max: *See—*
Zuhlke, Gerhard; Brandli, Paul; and Spalti, Max, 3,678,550.

Spampanato, Gavino Anthony: *See—*
Patmore, James R.; Bozenhard, Walter Frank; and Spampanato, Gavino Anthony, 3,678,258.

Span, Hylco J. Th.; and Woestenenk, Albert J., to Bitumarin N.V. Bituminous compositions in hydraulic constructions. 3,635,033, 1-18-72, Cl. 61-4.

Span, Samuel; and Thum, Walter. Toy. 3,654,727, 4-11-72, Cl. 46-17.

Spandau, Howard D., 1/3 to Johnson, David M. and 1/3 to Fleming, Robert L. Apparatus and method for confining and collecting oil floating on a water surface. 3,641,771, 2-15-72, Cl. 61-1.

Spanel, Abram N.: *See—*
Spanel, Abram N.; and Schwartz, John L. (said Schwartz, John L., assor. to), 3,670,672.
Spanel, Abram N.; and Terry, Roy P., Jr., 3,704,544.

Spanel, Abram N. Color applicator for hair. 3,640,288, 2-8-72, Cl. 132-9.

Spanel, Abram N.; and Schwartz, John L., said Schwartz, John L., assor. to Spanel, Abram N. Tufting machines for manufacture of tufted fabrics, tufted carpets, rugs, drapes, heavy fabrics, and the like. 3,670,672, 6-20-72, Cl. 112-79.

Spanel, Abram N.; and Terry, Roy P., Jr., to Spanel, Abram N. Ground cover sheet. 3,704,544, 12-5-72, Cl. 47-9.000.

Spang Industries, Inc.: *See—*
Laing, Alfred M., 3,666,571.

Spangemacher, Kurt, to Maschinenbau-Aktiengesellschaft Balcke. Method and apparatus for withdrawing heat from industrial plants, especially power plants. 3,635,042, 1-18-72, Cl. 62-121.

Spangemacher, Kurt, to Maschinenbau-Aktiengesellschaft Balcke. Cooling tower system. 3,685,579, 8-22-72, Cl. 165-122.000.

Spangenberg, Gerhard: *See—*

Petry, Henry Alfred; Rerecich, Francis; and Spangenberg, Gerhard, 3,648,496.
Spangenberg, Gerhard D.: *See—*
Thomas, John A., Jr.; and Spangenberg, Gerhard D., 3,659,968.
Spangler, Carl D., Jr.; Radd, Frederick J.; and Wolfe, Louis H., to Continental Oil Company. Thermal decomposition of organic compounds. 3,704,333, 11-28-72, Cl. 260-683.000.
Spangler, Earl G., to Lockheed Aircraft Corporation. Ceramics produced from spodumene, petalite and clay. 3,690,904, 9-12-72, Cl. 106-39.00r.
Spangler, Frederick E.; and Wetherell, Daniel L., to General Electric Company. Method for tuning discriminators. 3,662,459, 5-16-72, Cl. 29-593.
Spangler, Herbert D.; and Walker, William G., to Merck & Co., Inc. Concentrated water suspension of nutrients. 3,689,641, 9-5-72, Cl. 424-147.000.
Spangler, Myrtle Joanne, to Dan River Inc. Crease-proofing compositions containing glyoxal modified uron resins and processes for making same. 3,671,307, 6-20-72, Cl. 117-139.400.
Spangler, Paul J.; and Morgan, Thomas E., to International Telephone and Telegraph Corporation. Insulated flat wire terminal. 3,696,322, 10-3-72, Cl. 339-97.00c.
Spangler, Richard M., to Hewlett-Packard Company. Stored data recall means for an electronic calculator. 3,675,213, 7-4-72, Cl. 340-172.500.
Spangler, Richard M., to Hewlett-Packard Company. Electronic calculator. 3,678,466, 7-18-72, Cl. 340-172.500.
Spangler, Richard M., to Hewlett-Packard Company. Subroutine call and return means for an electronic calculator. 3,693,162, 9-19-72, Cl. 340-172.500.
Spangler, Robert E.: *See—*
Whittemore, Charles A.; and Spangler, Robert E., 3,639,345.
Spangler, Ross; and Materre, Christine, to Helene Industries, Inc. Stretch wigs. 3,654,938, 4-11-72, Cl. 132-53.
Spangler, William Gilbert; and Cross, Henry Daniel, III. Detergent compositions. 3,700,401, 10-24-72, Cl. 8-108.000.
Spani, Wayne, to Eastman Kodak Company. Excess 3 to BCD code converter. 3,706,878, 12-19-72, Cl. 235-155.000.
Spani, Wayne, to Eastman Kodak Company. BCD to excess 3 code converter. 3,706,880, 12-19-72, Cl. 235-155.000.
Spanier, Henry C.: *See—*
Ronai, Kenneth S.; and Spanier, Henry C., 3,640,728.
Ronai, Kenneth S.; and Spanier, Henry C., 3,640,729.
Ronai, Kenneth S.; and Spanier, Henry C., 3,704,134.
Spanier, Joseph A. Assembled camouflage material of interlocked separate units. 3,661,689, 5-9-72, Cl. 161-37.
Spanjer, Keith Gordon, to Motorola, Inc. Injection mold wherein moveable cavity portions are to close the mold gates and further compress the mold material. 3,685,784, 8-22-72, Cl. 249-110.000.
Spanjersberg, Arie Adriaan, to De Staat der Nederlanden, ten deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen Telegrafie en Telefonie. Octonal code reader. 3,649,814, 3-14-72, Cl. 235-61.11.
Spanke, Edwin A.: *See—*
Carrier, Louis F.; and Spanke, Edwin A., 3,675,976.
Spann, Donald C., to Phillips Petroleum Company. Imitation sliver knit pile fabric. 3,674,618, 7-4-72, Cl. 161-64.000.
Spannlang, Ronald, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Steel-converter handling vehicle. 3,640,503, 2-8-72, Cl. 254-84.
Spanos, Theodore, III: *See—*
Godar, Richard L.; and Spanos, Theodore, III, 3,654,346.
Spanos, Theodore, III; and Godar, Richard L., to Petrolite Corporation. Use of poly-ester-amide-acids as rust or corrosion inhibitors. 3,703,587, 11-21-72, Cl. 21-2.500.
Spanos, William M.; and Polgar, Michael S., to International Telephone and Telegraph Corporation. Discone antenna. 3,641,578, 2-8-72, Cl. 343-773.
Spanos, William M., to International Telephone and Telegraph Corporation. Continuous phase shifter/resolver employing a rotary halfwave plate. 3,673,516, 6-27-72, Cl. 333-5.000.
Spanoudis, Louis, to Owens-Illinois, Inc. Process of making glass lasers of increased heat dissipation capability. 3,660,060, 5-2-72, Cl. 65-30.
Spanoudis, Louis, to Owens-Illinois, Inc. Glass lasers of increased heat dissipation capability made by ion exchange treatment of the laser glass. 3,687,799, 8-29-72, Cl. 161-164.000.
Spanset Inter AG.: *See—*
Norrman, Ruben Henry, 3,707,021.
Spanton, Robert George; Wakefield, Gordon Cecil John; Quarmby, Robert Charles; and Clarke, Terence James Leonard, to British United Shoe Machinery Company Limited, The. Feeding particulate material. 3,662,923, 5-16-72, Cl. 222-55.
Spar Aerospace Products Limited: *See—*
Groskopfs, Ernest, 3,663,770.
Sparcatron Limited: *See—*
Smith, Gordon Victor; and Ward, Eric John, 3,673,371.
Sparcraft, Inc.: *See—*
Hessemer, Lawrence E.; Manning, Richard P.; Sparks, Harry G.; and Powers, Walter H., 3,644,728.
Sparer, Seno: *See—*
Reuter, Henry G., Jr.; and Sparer, Seno, 3,636,925.
Sparkler Manufacturing Company: *See—*
Kracklauer, Aloysius C., 3,655,049.
Sparks, A. J., & Company, mesne: *See—*
Mol, Edward K.; and Stahl, Marvin D., 3,661,245.
Sparks, Allen K.: *See—*
Arrigo, Joseph T.; and Sparks, Allen K., 3,707,481.
Sparks, Allen K.; and Latos, Edwin J., to Universal Oil Products Company. Stabilization of rubber. 3,645,966, 2-29-72, Cl. 260-45.9.
Sparks, Allen K., to Universal Oil Products Company. Alkylation phenolic compound. 3,670,030, 6-13-72, Cl. 260-613.00d.
Sparks, Allen K., to Universal Products Company. Stabilization of lubricants. 3,677,945, 7-18-72, Cl. 252-49.600.
Sparks, Allen K., to Universal Oil Products Company. Alkylation of phenolic or thiophenolic compound. 3,683,030, 8-8-72, Cl. 260-613.00d.
Sparks, Allen K.; and Louvar, James J. Antioxidant mixture of an amineborate and a ketonephenol or aldehydephenol. 3,694,374, 9-26-72, Cl. 252-400.000.
Sparks, Bryan: *See—*
Hornbaker, Edwin D.; Sparks, Bryan; and Orloff, Harold D., 3,689,355.
Sparks, Buddy G.: *See—*
Murphy, Frank W., Jr.; Sparks, Buddy G.; Lawrence, Charles H.; and Rickard, Donald R., 3,688,577.
Sparks, Charles H. Cloth reinforcing member for use in making tissue grafts. 3,703,009, 11-21-72, Cl. 3-1.000.
Sparks, Fred L. Bagging and checkout counter system. 3,696,586, 10-10-72, Cl. 53-390.000.
Sparks, Harold R., to Knock & Associates, mesne. Lock washer. 3,680,619, 8-1-72, Cl. 151-36.000.
Sparks, Harry G.: *See—*
Hessemer, Lawrence E.; Manning, Richard P.; Sparks, Harry G.; and Powers, Walter H., 3,644,728.
Sparks, Robert J. Heat conductor. 3,633,666, 1-11-72, Cl. 165-185.
Sparks, William J. Process for manufacture of a grip for hand powered equipment. 3,638,295, 2-1-72, Cl. 29-407.
Sparlin, Derry D., to Continental Oil Company. Control of incompetent formations. 3,692,116, 9-19-72, Cl. 166-295.000.
Sparlin, Derry D., to Continental Oil Company. Promotion of burning of oil slicks with particulate, foamed alkali metal silicates. 3,698,850, 10-17-72, Cl. 431-8.000.
Sparling, Joseph T. Method and system for transporting oil by pipe line. 3,650,119, 3-21-72, Cl. 62-55.
Sparling, Raymond T.; and Dietz, William A., to Hersey-Sparling Meter Company. Cycling valve and valving assembly for water softeners. 3,700,007, 10-24-72, Cl. 137-625.290.
Sparrendahl, Gunnar Erik William, to Telefonaktiebolaget L M Ericsson. Method for transferring information in the form of time separated signal elements between subscribers in a telecommunication system and a telecommunication system, etc. 3,643,030, 2-15-2, Cl. 179-15.
Sparrow, Hubert T., to Honeywell Inc. Transducer having single layered magnetostrictive member. 3,638,153, 1-25-72, Cl. 335-215.
Sparrow, Robert E.: *See—*
Pask, Arthur H.; Sparrow, Robert E.; and Boulanger, Roger J., 3,681,536.
Sparta Brush Co., Incorporated: *See—*
Larson, Joseph A., 3,657,761.
Spartanics, Ltd.: *See—*
Mohan, William L.; and Willits, Samuel P., 3,643,068.
Mohan, William L.; and Willits, Samuel P., 3,663,803.
Willits, Samuel P., 3,643,098.
Sparton Corporation: *See—*
Depew, Donald R.; Greenman, Karl L.; and Probert, Daniel C., 3,660,807.
Mueller, John L., 3,658,152.
Pierson, William D., 3,664,175.
Widenhofer, James W., 3,701,175.
Williams, Roland H., 3,692,586.
Spassky, Konstantin Semenovich: *See—*
Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karpovich; Ivanov, ViktorVasilievich; and Semenov, Mikhail Ivanovich, 3,659,969.
Spataru, Nicolae: *See—*
Moisescu, Gheorghe; Stoica, Valer; Wolf, Carol; and Spataru, Nicolae, 3,640,206.
Spatz, Donald Dean, to Osmonics, Inc. Metal reclamation process and apparatus. 3,637,467, 1-25-72, Cl. 204-14.
Spatz, Sydney M.; Bailey, Maurice E.; and Evans, Francis E., to Allied Chemical Corporation. Vicinal toluenediamine mixtures. 3,637,514, 1-25-72, Cl. 252-182.
Spatz, William L. Spring loaded caster for shop stools bar stools and the like. 3,699,609, 10-24-72, Cl. 16-44.000.

Spaulding, David Adams, to Bell Telephone Laboratories, Incorporated. Recursive automatic equalizer. 3,646,480, 2-29-72, Cl. 333-18.
Spaulding, David B., to Novatek, Inc. Method and apparatus for vehicle control and guidance. 3,668,624, 6-6-72, Cl. 340-32.000.
Spaulding Fibre Company, Inc.: *See—*
Riccitiello, Michael; and Kreitmayer, Harry A., 3,660,199.
Waldron, Linwood J.; and Hastings, William J., 3,659,913.
Spaulding, Richard S.: *See—*
Sothen, Andrew G.; and Spaulding, Richard S., 3,643,919.
Spauschus, Karl; and Darmawan, Brotoharsojo, to Werkzeugmaschinenfabrik Adolf Waldrich Coburg. Device for infinitely variable adjustment of the play of an antifriction bearing for a spindle or the like. 3,687,511, 8-29-72, Cl. 308-207.000.
Spausuzus, Siegfried, to Kienzle Apparate G.m.b.H. Apparatus for automatically evaluating recordings on a record carrier. 3,655,948, 4-11-72, Cl. 235-61.9.
Spaw, Eugene S.; McGrath, Paul F.; and Otto, Stanley W., to Hallmark Cards, Incorporated. Means including two die sets for embossing and applying foil to a sheet. 3,669,014, 6-13-72, Cl. 101-3.000.
Speakman, Edwin L., to Standard Brands Incorporated. Cyanoethyl starch. 3,689,361, 9-5-72, Cl. 195-31.00r.
Speakman, Edwin L., to Standard Brands Incorporated. Starch product. 3,705,046, 12-5-72, Cl. 106-213.000.
Speakman, John D., to Metalphoto Corporation. Method and apparatus for forming images in anodized sheet metal. 3,702,581, 11-14-72, Cl. 95-89.00r.
Spear, Merton R., Jr., to Xerox Corporation. Web cutting and feeding apparatus. 3,639,053, 2-1-72, Cl. 355-13.
Spear, Merton R., Jr., to Xerox Corporation. Copying apparatus. 3,645,615, 2-29-72, Cl. 355-3.
Spear Systems, Inc.: *See—*
Speer, Billy L., 3,693,562.
Spearhead, Inc.: *See—*
Hardway, Edward V., Jr., 3,703,893.
Spearin, Walter E.; and Vanderhei, Harold S., to Combined Paper Mills, Inc. Method for controlling varying liquid penetration of a continuous paper web. 3,676,184, 7-11-72, Cl. 117-68.000.
Spearing, Michael Henry: *See—*
Weaver, David R.; Emery, Anthony G.; and Spearing, Michael Henry, 3,659,111.
Spears, Esten W., Jr., to General Motors Corporation. Rotor blade retainer. 3,656,865, 4-18-72, Cl. 416-221.
Spears, Harry L. Slide valve pump. 3,697,199, 10-10-72, Cl. 417-498.000.
Spears, Joseph F. Motor protection control apparatus. 3,688,157, 8-29-72, Cl. 317-13.00r.
Speceley, Gene Donald: *See—*
Widdowson, Roy; and Speceley, Gene Donald, 3,672,432.
Specht, Theodore R.: *See—*
Morris, Louis; and Specht, Theodore R., 3,678,428.
Specht, Wolfgang; and Bertram, Bernd, to S.M.B. Sondermaschinen GmbH. Printing unit interrupter for rotary printing presses. 3,635,160, 1-18-72, Cl. 101-247.
Special Engineering Development Limited: *See—*
Hargreaves, Edward William, 3,680,447.
Special Metals Corporation: *See—*
Boesch, William J., 3,653,987.
Boesch, William J., 3,667,938.
Boesch, William J.; Darmara, Falih N.; and Warmuth, Francis J., 3,707,409.
Speck, Charles D. Idler roller device for troughed conveyor belts. 3,648,824, 3-14-72, Cl. 198-192.
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Spina, John A. High-low stilts. 3,660,920, 5-9-72, Cl. 40-129.
Spindel, Abraham: *See*—
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Spinner, Georg; and Treczka, Leo. Waveguide transition. 3,686,589, 8-22-72, Cl. 333-21.00r.
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Spinnett, Raymond G. Rotary internal combustion engine. 3,640,252, 2-8-72, Cl. 123-8.31.
Spinney, Arthur F., Jr.; and Warnalis, Lawrence J., to American Biltrite Rubber Co., Inc. Artificial grass sports field. 3,661,687, 5-9-72, Cl. 161-21.
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Spinski, Victor, to University of Delaware. Photographs on ceramic or ceramic-like surfaces. 3,674,484, 7-4-72, Cl. 96-34.000.
Spir-L-OK Industries Limited: *See*—
Hale, Reginald D., 3,694,892.
Spira, John Ralph; and Newman, Anthony John, to Crompton Parkinson Limited. Moving coil electrical measuring instruments. 3,684,959, 8-15-72, Cl. 324-151.00r.
Spire, Etienne: *See*—
Karinthi, Pierre; and Spire, Etienne, 3,640,702.
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Breunsbach, Maurice C., 3,692,243.
Spisak, Steve, to TRW Inc., mesne. Stud welding tool and stud loading device therefor. 3,679,860, 7-25-72, Cl. 219-98.000.
Spisz, Albert S.: *See*—
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Spiteri, Joseph, to Truck-Lite Company, Inc. Lamp with support for filament to extend life of filament and envelope filled with krypton and/or xenon. 3,654,512, 4-4-72, Cl. 315-64.
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Spivack, Mayer D. Baby's pacifier. 3,690,324, 9-12-72, Cl. 128-359.000.
Spivak, Boris Volkovich: *See—*
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Spivak, David. Apparatus for determining the proximity of moving vehicles. 3,662,328, 5-9-72, Cl. 340-33.000.
Spivy, Paul L., to Phillips Petroleum Company. Method of intermittently severing continuously formed extrudate. 3,655,856, 4-11-72, Cl. 264-150.
Spivy, Paul L., to Dayco Corporation. Endless track. 3,680,925, 8-1-72, Cl. 305-38.000.
Spix, George J.: *See—*
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Sprandel, Hans W. Snowshoe and harness. 3,638,333, 2-1-72, Cl. 36-4.5.
Sprandel, Harold R. Archery sight and range finder. 3,666,368, 5-30-72, Cl. 356-21.000.
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Sprauer, Jerome W., to Du Pont de Nemours, E. I., and Company. Melt-condensed polyamide interpolymer adhesives. 3,637,551, 1-25-72, Cl. 260-18.
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Spreuer, Philip M. Telescoping light bar. 3,691,366, 9-12-72, Cl. 240-8.300.
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Springer, Edward M., to Nicolls, Keith K. Fluid spreading apparatus. 3,680,783, 8-1-72, Cl. 239-101.000.
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Springett, James C., to United States of America, National Aeronautics and Space Administration. Audio system with means for reducing noise effects. 3,700,812, 10-24-72, Cl. 179-1.00p.
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Springston, George B., Jr.; Thomas, Samuel L.; and Miller, Fred B., to United States of America, Navy. Knotmeter for small craft. 3,677,082, 718-72, Cl. 73-181.000.
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Sprong, Edmund Jay. Fabric pleater guide. 3,667,677, 6-6-72, Cl. 223-34.
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Vassiliadis, Arthur; Zweng, Harold C.; Peppers, Norman A.; and Alterton, Lloyd E., 3,703,176.

Stangarone, Gene; Cassara, Frank A.; and Dupont, Eugene F., to Automatic Flag Poles, Inc. Automatic flagpole. 3,675,615, 7-11-72, Cl. 116-173.000.

Stange Co.: *See—*
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Stange, Hugo, to FMC Corporation. Method for dispersing fog with phosphate salt compositions. 3,647,710, 3-7-72, Cl. 252-319.

Stange, Klaus K.; and Robinson, Thomas K., Jr., to Xerox Corporation. Multi-stylus recorder. 3,644,930, 2-22-72, Cl. 346-74.

Stange, Klaus K., to Xerox Corporation. Multi-stylus recording assembly. 3,686,679, 8-22-72, Cl. 346-139.00a.

Stange, Klaus K., to Xerox Corporation. Donor apparatus and method. 3,687,106, 8-29-72, Cl. 118-621.000.

Stanger, Bernd: *See—*
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Pohlemann, Heinz; Wurmb, Rolf; Kunde, Joachim; and Stanger, Bernd, 3,637,908.

Stanger, Leo: *See—*
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Stanger, Leon J., to Harris-Intertype Corporation. Envelope delay compensation circuit. 3,643,170, 2-15-72, Cl. 328-163.

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Stanionis, Constance Veronica: *See—*
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Stanke, Rudi G., to Johnson Hydraulic Equipment Co. Portable lawn raking devices. 3,678,665, 7-25-72, Cl. 56-13.400.

Stanke, Walter, to Heinrich Koppers Gesellschaft mit beschrankter Haftung. Sintering machine. 3,666,254, 5-30-72, Cl. 266-21.000.

Stankovich, Frank M. Motorcycle front end assembly. 3,701,544, 10-31-72, Cl. 280-276.000.

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Stanley, Brian. Electronic relay. 3,673,435, 6-27-72, Cl. 307-257.000.

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Stanley, Delmar O., to TRW Inc. Valve seat inserts. 3,701,652, 10-31-72, Cl. 75-126.00a.

Stanley Denki Kabushiki Kaisha: *See—*
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Stanley Drug Products, Inc.: *See—*
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Stanley Electric Co., Ltd.: *See—*
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Stanley, Hugh E.; and Tokos, George M., to Crown Zellerbach Corporation. Package of composite film with peelable, heatsealable surfaces. 3,655,503, 4-11-72, Cl. 161-165.

Stanley, Ian William: *See—*
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Stanley, Joseph A., Jr. Deionizing water with ion exchange resin and regenerating the resin. 3,634,229, 1-11-72, Cl. 210-33.

Stanley, Kenneth Ernest. Crushing and bending of sections of members. 3,688,550, 9-5-72, Cl. 72-369.000.

Stanley, Lester N.; and Farris, Russell E., Jr., to GAF Corporation. Pyrrolidonylphenyl azo dyestuffs. 3,666,746, 5-30-72, Cl. 260-152.

Stanley, Maurice E., to Texaco Inc. Method for inhibiting fouling in a refinery process. 3,666,656, 5-30-72, Cl. 208-48.

Stanley, Michael R., to Xerox Corporation. Cross-mixing baffle. 3,697,050, 10-10-72, Cl. 259-4.000.

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Stanley, Paul H.; deceased (by First Pennsylvania Banking and Trust Co.; executor), to Autogiro Company of America. Rotary wing transport aircraft. 3,635,426, 1-18-72, Cl. 244-17.11.

Stanley, Richard C.; and Lewis, Jesse M., to Midwestern Specialties, Limited. Method for coating pipe. 3,687,704, 8-29-72, Cl. 117-17.000.

Stanley, Richard C.; Thatcher, Charles R.; and Poore, Ernest C., to Midwestern Specialties, Limited. Method for coating pipe. 3,687,706, 8-29-72, Cl. 117-18.000.

Stanley, Richard Carl, to Midwestern Specialties, Ltd. Method and means for welding pipe sections. 3,681,560, 8-1-72, Cl. 219-61.

Stanley, Robert K., to Techniservice Corporation. Method and apparatus for strand crimping. 3,636,599, 1-25-72, Cl. 28-1.6.

Stanley, Robert M., to Stanley Aviation Corporation. G-field parachute recovery apparatus and method. 3,642,236, 2-15-72, Cl. 244-138.

Stanley, Robert W.; Ames, Horace L.; and Jennings, Peter H., to Brenda Mines, Ltd. Process for purifying molybdenite concentrates. 3,674,424, 7-4-72, Cl. 23-15.00w.

Stanley, Thomas R.; and Mascia, Carment T., to Continental Can Company, Inc. Metering dispensing closure. 3,687,341, 8-29-72, Cl. 222-455.000.

Stanley, William L., to United States of America, Agriculture. Preparation of an insoluble active enzyme. 3,672,955, 6-27-72, Cl. 195-68.000.

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Stannebein, Clifford E., to Case, J. I., Company. Seat suspension system. 3,685,780, 8-22-72, Cl. 248-399.000.

Stanner, Donald, to General Motors Corporation. Vehicle body closure panel. 3,680,910, 8-1-72, Cl. 296-29.000.

Stannow, Jorgen Christian, to Danfoss A/S. Thermostatically controlled expansion valve for refrigerating equipment. 3,664,581, 5-23-72, Cl. 236-80.

Stano, Eugene A., to Florida Juice Vendors, Inc. Vending machine. 3,702,666, 11-14-72, Cl. 222-129.400.

Stanray Corporation: *See—*
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Goodhart, Steven E.; and Channels, Alfred C., 3,687,321.
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Stanray Corporation, mesne: *See—*
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Stansbury, Roy E.; and Shotton, James A., to Phillips Petroleum Company. Protecting a buried material such as a cable with water soluble rodent repellent compositions. 3,643,450, 2-22-72, Cl. 61-72.1.

Stansell, Alpheus F.; and Bennett, Eugene E., to Burroughs Corporation. Coupling for a pneumatic actuated magnetic head. 3,678,480, 7-18-72, Cl. 340-174.10e.

Stansell, Marion J.; and Stansell, Shelby J., said Stansell, Marion J., assor. to United States of America, Air Force. Portable, self-contained system for analyzing biological fluids or the like. 3,648,159, 3-7-72, Cl. 324-30.

Stansell, Marion J.; and Cheek, Chandler S., to United States of America, Air Force. System for determining the hydrogen ion concentration of flowing liquids. 3,658,679, 4-25-72, Cl. 204-195.

Stansell, Shelby J.: *See—*
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Stansfield, Manfred D., to Sterling Extruder Corporation. Mixing apparatus and method. 3,685,804, 8-22-72, Cl. 259-10.000.

Stant, Vernon C.: *See—*
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Stanton, Arthur J.; Kolb, Edwin R.; and Roberts, Webster C., to Harris-Intertype Corporation. Phototypesetting apparatus. 3,670,632, 6-20-72, Cl. 95-4.50r.

Stanton, David Christopher, to Plastic Innovations Limited. Phonograph record envelope with foam strip. 3,688,898, 9-5-72, Cl. 206-62.00p.

Stanton, Francis W., Jr.: *See—*
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Stanton, Garth M., to Chevron Research Company. Greases containing particulate polymeric diimide thickeners. 3,661,779, 5-9-72, Cl. 252-49.6.

Stanton, Garth M.; and Drehe, John L., to Chevron Research Company. Greases thickened with quinacridone pigments. 3,692,677, 9-19-72, Cl. 252-25.000.

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Stanton, Milton W. Artificial fuel log machine. 3,706,540, 12-19-72, Cl. 44-2.000.

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Stanton, Walter O., to Pickering & Company, Inc. Induced magnetic moving iron stereophonic phonograph pickup with replaceable stylus assembly and one common pole piece. 3,646,279, 2-29-72, Cl. 179-100.41.
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Stanway, Edward, to Leemetals Limited. Method and machines for dyeing textile piece goods. 3,686,905, 8-29-72, Cl. 68-62.000.
Stanyon, Horace Edward: *See—*
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Stanyon, Horace Edward; Robinson, Kenneth Buckley; and Beeson, Eric John George, to Thorn Lighting Limited. Xenon lamp. 3,660,711, 5-2-72, Cl. 313-220.000.
Stanzel, Victor. Jet propelled model vehicle. 3,664,056, 5-23-72, Cl. 46-74.00a.
Stanziola, Ralph T.; and Shuster, George A., to S&S Research & Development Corporation. Method and apparatus for generating electricity. 3,697,764, 10-10-72, Cl. 290-42.000.
Stanzwerke Glarus AG: *See—*
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Stapert, James, Jr.: *See—*
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Stapfer, Christian H.: *See—*
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Stapfer, Christian H., to Carlisle Chemical Works, Inc. Cobalt II halide complexes of unidentate ligands. 3,649,576, 3-14-72, Cl. 260-22.
Stapfer, Christian H.; and D'Andrea, Richard W., to Carlisle Chemical Works, Inc. Cobalt II halide ketazine and aldazine complexes. 3,649,663, 3-14-72, Cl. 260-439.
Stapfer, Christian H., to Cincinnati Milacron Chemicals Inc. Vic-dihydrazonoalkanes as biostats in plastics, paints and textiles. 3,652,496, 3-28-72, Cl. 260-45.9.
Stapfer, Christian H.; and Shah, Ashok C., to Cincinnati Milacron Chemicals Inc. Novel organotin stabilizer compositions and resin compositions stabilized therewith. 3,654,222, 4-4-72, Cl. 260-45.75.
Stapfer, Christian H., to Cincinnati-Milacron Chemicals, Inc. Organic acyl thioacetal and thioketal stabilizers for halogenated resins. 3,661,844, 5-9-72, Cl. 260-45.95.
Stapfer, Christian H.; and D'Andrea, Richard W., to Carlisle Chemical Works, Inc. Preparation of pyrazolines by cyclization of an azine. 3,666,772, 5-30-72, Cl. 260-310.00d.
Stapfer, Christian H.; and Racz, William B., to Cincinnati Milacron Chemicals, Inc. Rigid halogen-containing resin compositions. 3,679,619, 7-25-72, Cl. 260-23.0xa.
Stapfer, Christian H., to Cincinnati Milacron Chemicals Inc. Alpha-oximino ketone anti-skinning agents. 3,701,781, 10-31-72, Cl. 260-22.00a.
Stapfer, Jakob, to Maschinenfabrik Schweiter AG. Thread gauging apparatus. 3,665,568, 5-30-72, Cl. 28-64.000.
Stapleford, Leonard Ernest, to Baker Perkins Limited. Rotary offset printer with damping roller selectively engageable with print cylinder or blanket cylinder. 3,661,079, 5-9-72, Cl. 101-142.
Staples, Crawford E.; and Jacobs, William A., to Westinghouse Air Brake Company. Highway crossing signal system. 3,660,652, 5-2-72, Cl. 246-125.
Staples, John L.: *See—*
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Staples, Paul R., to General Electric Company. Hydraulic thermostat with double throw switch mechanism. 3,656,182, 4-11-72, Cl. 337-319.
Stapleton, Brian P.; and Sutton, Robert W., to Boeing Company, The. Glide slope antenna system. 3,662,392, 5-9-72, Cl. 343-708.000.
Stapleton, Fred E.: *See—*
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Stapleton, John R. Sealant compositions comprising esters of cyclic ether alcohols and peroxy catalysts. 3,634,373, 1-11-72, Cl. 260-86.1.
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Stapleton, Richard Joseph, to Bell Telephone Laboratories, Incorporated. Concentrator arrangement for wideband switching. 3,701,849, 10-31-72, Cl. 179-200.0tv.
Stapleton, Thomas T., to General Motors Corporation. Apparatus for producing an interference pattern. 3,695,749, 10-3-72, Cl. 350-163.000.
Stapley, Edward O.: *See—*
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Stapley, Edward O.; Mata, Justo M.; Wolf, Frank J.; and Miller, Thomas W., to Merck & Co., Inc. Process for preparing 6-chloro-α-quinoxaline-carboxylic acid-1,4-dioxide. 3,692,633, 9-19-72, Cl. 195-80.00r.
Stapley, Rulon Floyd; and Hollibaugh, Clarence T. Method of making potato products. 3,687,688, 8-29-72, Cl. 99-100.00p.
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Werner, Helmut; and Stapp, Hans, 3,691,004.
Stapp, Hans, to Akzona Incorporated. Spinning die. 3,650,659, 3-21-72, Cl. 425-461.
Stapp, Paul R.: *See—*
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Stapp, Paul R., to Phillips Petroleum Company. Dehydrohalogenation of halotetrahydropyrans. 3,639,669, 2-1-72, Cl. 260-345.1.
Stapp, Paul R., to Phillips Petroleum Company. Synthesis of 3-haloalkyl hydrocarbon-carboxylates and 4-halotetrahydropyrans. 3,644,427, 2-22-72, Cl. 260-345.1.
Stapp, Paul R., to Phillips Petroleum Company. Production of halogenated esters and unsaturated esters. 3,644,495, 2-22-72, Cl. 260-491.
Stapp, Paul R., to Phillips Petroleum Company. Production of alkenyl alkanoates and 3-haloalkyl alkanoates. 3,644,496, 2-22-72, Cl. 260-494.
Stapp, Paul R.; Nowack, Gerhard P.; and Johnson, Marvin M., to Phillips Petroleum Company. Isomerization process. 3,651,092, 3-21-72, Cl. 260-345.1.
Stapp, Paul R., to Phillips Petroleum Company. Bis-tetrahydropyranyl sulfide. 3,651,093, 3-21-72, Cl. 260-345.9.
Stapp, Paul R., to Phillips Petroleum Company. Production of alkenyl alkanoates. 3,657,326, 4-18-72, Cl. 260-491.
Stapp, Paul R., to Phillips Petroleum Company. Halomethylation of trimethylbenzenes. 3,658,923, 4-25-72, Cl. 260-651.
Stapp, Paul R., to Phillips Petroleum Company. Preparation of aminotetrahydropyrans. 3,669,992, 6-13-72, Cl. 260-345.1.
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Star, Joseph, to Lundy Electronics & Systems, Inc. Digital compass. 3,634,946, 1-18-72, Cl. 33-224.
Star Lifeline Limited: *See—*
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Star-New Era, Inc.: *See—*
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Starace, Louis A. Drawer support means. 3,682,524, 8-8-72, Cl. 312-330.000.
Starcevic, Mihailo, to Aktiengesellschaft Brown, Boveri & Cie. Arrangement for supplying rotor of an electrical machine with a liquid coolant. 3,652,880, 3-28-72, Cl. 310-54.
Starcher, Paul Spencer; and Ash, Bertrand Donahay, to Union Carbide Corporation. Preparation of bicyclo (2.2.1)hept-2-en-ylmethyl acrylate. 3,681,438, 8-1-72, Cl. 260-486.00r.
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Starer, Ira; and Papaioannou, Christos George, to American Cyanamid Company. Preparation of 1-(1-substituted-5-nitro-2-imidazolecarboximidoyl-3-thiosemicarbazides. 3,649,639, 3-14-72, Cl. 260-309.
Starer, Robert L., to Physitech, Inc. Aircraft flasher unit. 3,676,736, 7-11-72, Cl. 315-241.00r.

Stargardter, Hans, to United Aircraft Corporation. Filament reinforced gas turbine blade. 3,679,324, 7-25-72, Cl. 416-229.000.

Starita, Joseph M.; and Macosko, Christopher W. Force measuring apparatus. 3,693,425, 9-26-72, Cl. 73-133.000.

Stark, Adolf F.; Kolbeck, Winfried; and Bayerlein, Friedrich J., to Diamalt Aktiengesellschaft. Process for the production of N-carbamides of amino acids containing thiol groups. 3,704,318, 11-28-72, Cl. 260-534.00s.

Stark, Amos J.; and McGinnis, Herbert E., to Goodrich, B. F. Company, The. Catenary roll support for a conveyor belt. 3,700,092, 10-24-72, Cl. 198-192.00r.

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Stark, Daniel C., to Deering Milliken Research Corporation. Textile product and process. 3,669,818, 6-13-72, Cl. 161-63.000.

Stark, Daniel J., to Eastman Kodak Company. Cartridge mounting structure for a cartridge loading motion picture projector or the like. 3,670,991, 6-20-72, Cl. 242-197.000.

Stark, Donald Sutherland, to National Research Development Corporation. Tritium and deuterium inpregnated targets for neutron generators. 3,683,190, 8-8-72, Cl. 250-84.500.

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Stark, Eric K.: *See—*
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Stark, John E.; and Vanoostveen, Adrian G., to Ford Motor Company. Method of expanding a pliable material. 3,696,186, 10-3-72, Cl. 264-292.000.

Stark, John, Jr.; and Carpenter, David Harry, to RCA Corporation. Hue control circuit for a color television receiver. 3,701,845, 10-31-72, Cl. 178-5.4he.

Stark, Karl, to Daimler-Benz Aktiengesellschaft. Window guidance system for the sliding window of a motor vehicle. 3,656,259, 4-18-72, Cl. 49-440.

Stark, Kurt: *See—*
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Stark, Marvin: *See—*
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Stark, Marvin; and Knippel, Willis H., to Pullman Incorporated. Covered hopper car with hatch cover means. 3,664,270, 5-23-72, Cl. 105-377.

Stark, Marvin L., to Armco Steel Corporation. Method of finishing galvanized wire. 3,632,411, 1-4-72, Cl. 117-114.

Stark, Marvin L., to Armco Steel Corporation. Means for regulating the escape of wire from a dead block onto an accumulator. 3,695,543, 10-3-72, Cl. 242-82.000.

Stark, Robert E.; and Uba, Toshio, to Gates Rubber Company, The. Resealable safety valve. 3,706,617, 12-19-72, Cl. 136-178.000.

Stark, Sheldon L.: *See—*
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Stark, Sven Olof Soren, to Cordotex SA., mesne. Packaging containers of parallelepiped shape. 3,698,624, 10-17-72, Cl. 229-23.00r.

Stark, Turner. Camping shelter employing camper shell as top portion. 3,649,063, 3-14-72, Cl. 296-23.

Stark, Virgil; Wastie, Arthur E.; and Sliosberg, Jacques, to North American Utility Construction Corporation. Fuel gas pipeline system. 3,689,237, 9-5-72, Cl. 48-190.000.

Stark, William M.: *See—*
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Starke, Hans, to K.D.G. Instruments Limited. Winding apparatus. 3,640,478, 2-8-72, Cl. 242-18.

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Stawarski, Chester C.; Gerding, Charles C.; and Adams, Richard T. Releasable supporting apparatus. 3,673,869, 7-4-72, Cl. 73-343.00r.
Stayner, Robert A., to Chevron Research Company. Stable dielectric fluid for electrical discharge machining comprising a mineral oil, a metal sulfonate and a phenolic antioxidant. 3,639,275, 2-1-72, Cl. 252-63.5.
Stayner, Robert A.; and DeMay, George B., to Chevron Research Company. Electrical discharge machining process and dielectric fluid. 3,648,013, 3-7-72, Cl. 219-69.
Stayner, Robert A., to Chevron Research Company. Stable dielectric fluid for electrical discharge machining comprising a mineral oil, a metal sulfonate and a phenolic antioxidant. 3,679,857, 7-25-72, Cl. 219-69.00d.
Stayner, Vance A., to Federal-Huber Corporation. Rigidified resinous laminate. 3,707,434, 12-26-72, Cl. 161-161.000.
Ste. Anne Paper Company Limited: *See—*
Hamilton, Douglas D., 3,658,104.
Ste Inter-Elec: *See—*
Malon, Jean-Pierre, 3,643,090.
Steacie, John Richard B., to Leigh Instruments Limited. Non-linear counter. 3,631,722, 1-4-72, Cl. 73-386.
Stead, Cecil Vivian: *See—*
Andrew, Herbert Francis; and Stead, Cecil Vivian, 3,647,778.
Griffiths, Geoffrey; and Stead, Cecil Vivian, 3,639,662.
Griffiths, Geoffrey; and Stead, Cecil Vivian, 3,658,782.
Steadman Industries (Nassau) Limited, mesne: *See—*
Hand, Albert Michael, 3,664,533.
Steadman, Rufus F. Drill bit sharpening mechanism for use in conjunction with hand drills. 3,698,140, 10-17-72, Cl. 51-241.00g.
Steadman, Thomas R.: *See—*
Roswell, David F.; Kramm, David E.; Wood, Louis L.; and Steadman, Thomas R., 3,644,423.
Steam Engine Systems Corporation: *See—*
Gerstmann, Joseph, 3,692,104.
Steam Power Systems, Inc.: *See—*
Hodgkinson, Robert, 3,662,553.
Ste'An Automobiles Citroen: *See—*
Cadiou, Jean, 3,697,093.
Steane, Richard A., to USM Corporation. Shoe lasting machines. 3,667,077, 6-6-72, Cl. 12-8.300.
Stearns, Charles F.: *See—*
Colman, Michael E.; and Stearns, Charles F., 3,646,753.
Stearns, Eldon M., to General Electric Company. Turbine blade tip cooling air expander. 3,703,808, 11-28-72, Cl. 60-39.660.
Stearns, Richard E., to Tonus, Inc. Music synthesizer keyboard. 3,665,089, 5-23-72, Cl. 84-1.100.
Stearns, Richard S.; Duling, Irl N.; and Gates, David S., to Sun Oil Company. Synthetic lubricants from low molecular weight olefins. 3,676,521, 7-11-72, Cl. 260-683.100.
Stearns-Roger Corporation: *See—*
Vanlingen, George A.; and Pickett, Eugene W., 3,690,715.
Stease, Ralph E. Apparatus for coating and/or impregnating substantially planar articles. 3,635,193, 1-18-72, Cl. 118-63.
Steatit-Magnesia Aktiengesellschaft: *See—*
Jestrzemski, Fritz; Korbus, Dieter; and Schulze, Gerhard, 3,634,805.
Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich. Machine for casting thin-walled large-size pieces. 3,697,038, 10-10-72, Cl. 249-137.000.
Stebbins, Herve A.; and Stebbins, John A. Multiple sight for archer's bow. 3,670,422, 6-20-72, Cl. 33-265.000.
Stebbins, John A.: *See—*
Stebbins, Herve A.; and Stebbins, John A., 3,670,422.
Stebbins, Marlin R.: *See—*
Campbell, Theodore A.; Stebbins, Marlin R.; and Peelle, Jonathan W., 3,656,376.
Stebbins, Ray M. Apparatus for bleeding hydraulic lines. 3,635,262, 10-18-72, Cl. 141-98.
Steblay, Ralph E., to Phototron Co. Film transport rack. 3,659,514, 5-2-72, Cl. 95-94.
Stebler, Walter. Device for hermetically sealing the opening for the winding stem in a watch dome. 3,662,536, 5-16-72, Cl. 58-90.
Stebley, Frank E. Manufacture of insert for drill bit. 3,651,716, 3-28-72, Cl. 76-108.
Stech, Peter: *See—*
Born, Dieter; Stech, Peter; and Huebner, Werner, 3,701,535.
Stecher, Friedhelm, to Goetzewerke Friedrich Goetze A.G. Device for testing components which are subjected to alternating stresses. 3,690,162, 9-12-72, Cl. 73-119.00r.
Stechl, Hanns-Helge: *See—*
Decker, Martin; Stechl, Hanns-Helge; Palm, Christof; and Buerger, Gert, 3,637,797.
Steck, Edward S.: *See—*
Schwiebert, Phillip D.; and Steck, Edward S., 3,667,401.
Steck, William F., to Weaver, W. R., Company. Sighting device. 3,645,635, 2-29-72, Cl. 356-252.
Steck, William F., III, to Weaver, W. R., Company. Gun sight. 3,700,339, 10-24-72, Cl. 356-247.000.
Steckel, Douglas Thomas: *See—*
Peterson, Rehn Claus; St. Denis, Robert Alexander; and Steckel, Douglas Thomas, 3,663,008.
Stecker, Merrick C. Dice, card and token box convertible to a dice throwing area. 3,652,086, 3-28-72, Cl. 273-1.
Stecker, Merrick C. Paint scraper. 3,670,414, 6-20-72, Cl. 30-338.000.
Steckhahn, Frank L.: *See—*
Mukai, Cromwell D.; and Steckhahn, Frank L., 3,658,711.
Steckler, Steven Alan: *See—*
Limberg, Allen Leroy; and Steckler, Steven Alan, 3,641,361.
Steckler, Steven Alan, to RCA Corporation. Oscillator with variable reactive current frequency control. 3,636,475, 1-18-72, Cl. 331-117.
Steckler, Steven Alan, to RCA Corporation. Sample-and-hold circuit. 3,641,258, 2-8-72, Cl. 178-7.3.
Steckler, Steven Alan, to RCA Corporation. Transistor signal translating stage. 3,641,448, 2-8-72, Cl. 330-18.
Steckler, Steven Alan, to RCA Corporation. Electronic signal amplifier. 3,701,032, 10-24-72, Cl. 330-18.000.
Stecklow, James P. Loose leaf binder with spring biased hold-down bar. 3,684,390, 8-15-72, Cl. 402-69.000.
Stedefeder, Joachim: *See—*
Staiger, Gerhard; and Stedefeder, Joachim, 3,639,375.
Steding, Artur; and Blase, Manfred. Regenerative coke furnace and method of heating it. 3,689,365, 9-5-72, Cl. 201-41.000.
Stedman, James K.; and Cohen, Ronald, to United Aircraft Corporation. Dual mode fuel cell system. 3,704,172, 11-28-72, Cl. 136-86.00c.
Stedman, Robert J., to United States of America, Navy. Video gate. 3,700,799, 10-24-72, Cl. 178-6.000.
Stedman, Robert John, to Smith Kline & French Laboratories. Aminopolycyclodecanes. 3,641,148, 2-8-72, Cl. 260-563.
Stedman, Robert N.: *See—*
Peterson, Robert A.; Grooss, Frank A.; Morgan, William C.; Stedman, Robert N.; and Teasdale, Max J., 3,661,214.
Stedman, Robert N., to Caterpillar Tractor Company. Master link for cushioned track. 3,659,112, 4-25-72, Cl. 305-58.000.
Stedman, Robert N., to Caterpillar Tractor Company. Protective chain assembly for tires. 3,669,172, 6-13-72, Cl. 152-171.000.
Stedman, Russell F., to Universal Oil Products Company. Inhibitor injection. 3,689,238, 9-5-72, Cl. 48-190.000.
Stedtnitz, Wolfgang Richard Ernst, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Velocity measuring system. 3,691,513, 9-12-72, Cl. 340-3.00d.
Steed, Frank Streeton; deceased (by Rutherford, Robert Mark; and Steed, Mary Phyllis; executors); and Lawson-Tancred, Henry, to Thompson, Anthony Sigston. Parking apparatus with powered pallets in each parking stall. 3,675,799, 7-11-72, Cl. 214-16.1cb.
Steed, Mary Phyllis: *See—*
Steed, Frank Streeton; and Lawson-Tancred, Henry, 3,675,799.
Steed, Willie L. Pi coupled low noise amplifier. 3,641,452, 2-8-72, Cl. 330-176.
Steeg, Joachim: *See—*
Korpiun, Joachim; and Steeg, Joachim, 3,694,330.
Steeg, Klaus: *See—*
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Maucher, Paul; and Steeg, Klaus, 3,695,405.

Steel Company of Canada Limited, The: *See—*
Addinall, Ramon L.; Lewis, William T.; and Mudroch, Otokar, 3,679,513.
Barclay, Allan Sangster, 3,640,175.
Garfield, James L., 3,695,083.
Heitmann, Guenter, 3,667,933.
Heitmann, Gunter, 3,663,201.
Herman, Hans, 3,672,946.
Herman, Hans, 3,690,583.
Monaco, Gaetano, 3,704,993.
Nagel, Horst; Thumm, Wilhelm; Garbe, Horst; Dailey, William H.; Goedeke, Egon; and Dadazynski, Rolf, 3,704,088.
Roeder, Gordon A.; and Dailey, William H., 3,689,250.
Sibakin, Jaroslaw George; Roeder, Gordon Alan; and Hookings, Paul Henry Heathcote, 3,690,867.
Thom, Gee Wing; and Wilson, Keith, 3,666,871.

Steel Craft Manufacturing Company, The: *See—*
Ruff, Robert O., 3,649,060.

Steel, Margaret Lillian: *See—*
Burgess, Anthony Joseph; Eagles, Alan Charles; and Steel, Margaret Lillian, 3,679,506.

Steel, Margaret Lillian; and Cross, William Telford, to Imperial Chemical Industries Limited. Forming a pile on an article. 3,696,183, 10-3-72, Cl. 264-164.000.

Steelastic Company, The: *See—*
Alderfer, Sterling W., 3,700,012.

Steelcase, Inc.: *See—*
Fries, Bernard J., 3,667,716.
Ostborg, Jan Nathan, 3,691,709.
Semplonius, Frans; and Kolk, Stephen B., 3,669,499.
Wolters, Richard H., 3,659,819.
Wolters, Richard H., 3,662,983.

Steelcraft Manufacturing Company, The: *See—*
Fink, Kenneth W., 3,636,672.

Steele, Byron D. Camper vehicle. 3,659,893, 5-2-72, Cl. 296-23.

Steele Chemicals Company Limited: *See—*
Kruger, Gunther, 3,647,829.

Steele, Clarence R., to CF & I Engineers, Inc. Diffusion apparatus with positive flow controls. 3,666,556, 5-30-72, Cl. 127-7.

Steele, Clarence R.; Price, Frank B.; and Marshall, John M., to CF & I Engineers, Inc. Apparatus for removing liquid from fibrous materials. 3,697,324, 10-10-72, Cl. 127-2.

Steele, Clyde W., to Nekoosa Edwards Paper Company, Inc., mesne. Steam jet cooking method for making aqueous resin emulsions and compositions containing such emulsions for coating paper. 3,663,483, 5-16-72, Cl. 260-17.2.

Steele, Dale I., to National Instrument Laboratories, Inc. Gas flow controlling system. 3,653,399, 4-4-72, Cl. 137-334.

Steele, David J.: *See—*
Heinrich, Theodore M.; Martin, Robert L.; and Steele, David J., 3,697,850.

Steele, Duane R.: *See—*
Hindin, Saul G.; Bair, Daniel L.; and Steele, Duane R., 3,666,813.
Rylander, Paul N.; and Steele, Duane R., 3,655,777.

Steele, James W.: *See—*
McCoy, J. C.; and Steele, James W., 3,700,535.

Steele, Johathan Peter, to Hoover Company, The. Centrifugal extraction machines. 3,703,091, 11-21-72, Cl. 68-23.100.

Steele, John K.: *See—*
Steele, Vincent J., Jr.; and Steele, John K., 3,685,460.

Steele, Merrell D. Hitch extension means. 3,645,560, 2-29-72, Cl. 280-482.

Steele, Michael F.: *See—*
Sladek, Theodore E.; Palmer, John E.; and Steele, Michael F., 3,638,429.

Steele, Michael F.; and Yates, John S., to Susquehanna Corporation, The. Separation system. 3,696,488, 10-10-72, Cl. 29-200.00d.

Steele, Michael F., to Susquehanna Corporation, The. Control apparatus. 3,696,686, 10-10-72, Cl. 74-337.500.

Steele, Robert D.; and Farris, Richard J., to Aerojet-General Corporation. Extensometer and attachment. 3,660,904, 5-9-72, Cl. 33-147.

Steele, Roger B.; Katzakian, Arthur, Jr.; Scigliano, Joseph J.; and Barry, Jude W., to Aerojet-General Corporation. Catalysis of epoxy resin/carboxylic acid systems with trivalent chromium III tricarboxylate salts. 3,635,869, 1-18-72, Cl. 260-30.4.

Steele, Terri Giversen, to Western Electric Company, Incorporated. Primary explosive compositions for explosive bonding or forming. 3,704,186, 11-28-72, Cl. 149-35.000.

Steele, Vincent J., Jr.; and Steele, John K. Pallet prop. 3,685,460, 8-22-72, Cl. 108-51.000.

Steele, William Henry: *See—*
Glover, Peter David; Forshaw, Richard; and Steele, William Henry, 3,640,253.
Glover, Peter David; Forshaw, Richard; and Steele, William Henry, 3,650,252.
Snodgrass, Kenneth William; Steele, William Henry; Wilson, Alan; and Phelps, Ross Leslie, 3,685,613.

Steele, William Henry, to Victa Limited. Engine decompression device. 3,704,988, 12-5-72, Cl. 123-182.000.

Steeley, Roy S., to Dixie-Narco, Inc. Security door for vending machines. 3,680,937, 8-1-72, Cl. 312-138.000.

Steelman, Gerald E. Litter device. 3,639,926, 2-8-72, Cl. 5-81.

Steels, Gordon, to Baker Perkins Limited. Dough laminating. 3,698,309, 10-17-72, Cl. 99-450.100.

Steelweld Limited: *See—*
Jenkinson, Brian E.; Watson, Geoffrey W.; and Foister, Peter B., 3,635,388.

Steen, Adam. Method for treating a broken-away refractory lining of a metallurgical furnace, consisting of dolomite bricks. 3,656,902, 4-18-72, Cl. 23-188.

Steen, Gerhard. Method and apparatus for incinerating solid materials. 3,664,278, 5-23-72, Cl. 110-8.00r.

Steen, Robert F.: *See—*
Dixon, Roy C.; Hash, Larry J.; and Steen, Robert F., 3,633,168.

Steenbergen, Godefridus F., 'Specta' Special-Chemicalien Industrie Ter Apel N.V. Method of preparing lower-alkyl malonaldates. 3,658,883, 4-25-72, Cl. 260-484.

Steenmeijer, Jan Paul, to U.S. Philips Corporation. Reed switch. 3,644,854, 2-22-72, Cl. 335-153.

Steenvoorden, Simon J., to Algemene Kunstzijde Unie, N.V. Process for the production of a sheet material having a shammying effect, and the material thus produced. 3,634,124, 1-11-72, Cl. 117-47.

Steetley (Mfg.) Ltd.: *See—*
Lythe, Revor Wilkinson; and Ashworth, Edward Arnold, 3,640,518.

Steeves, Linda A., to Combustion Engineering, Inc. Dual channel monitoring apparatus. 3,652,898, 3-28-72, Cl. 317-27.

Steeves, Robert W.: *See—*
Clough, Philip J.; and Steeves, Robert W., 3,707,433.

Steeves, W. Malcolm: *See—*
Harding, Charles I.; Russell, Lamar V.; Steeves, W. Malcolm; and Higgins, Irwin R., 3,660,040.

Stefan, Celestinus J. Ensilage feeder. 3,688,745, 9-5-72, Cl. 119-52.0af.

Stefan, Mihaly; Balazs, Fulop; Hegedus, Zoltan; and Tapolcai, Laszlo, to Csepeli Femmu. Gallium containing cold-rolled transformer laminations and sheets with a cubic structure. 3,650,851, 3-21-72, Cl. 148-31.55.

Stefancin, James M., to Dow Chemical Company, The. Bag dispensing arrangement. 3,679,127, 7-25-72, Cl. 229-62.500.

Stefanelli, Louis J.: *See—*
Noll, Charles A.; Feddern, Edward C.; and Stefanelli, Louis J., 3,656,908.

Stefanelli, William L. Cargo handling system. 3,688,926, 9-5-72, Cl. 214-38.0ba.

Stefani, Giancarlo: *See—*
Vecchio, Martino; and Stefani, Giancarlo, 3,686,338.

Stefani, Hugo, Jr. Apparatus for passively exercising a person's abdominal muscles. 3,674,017, 7-4-72, Cl. 128-25.00r.

Stefani, Richard D., to GTE Sylvania Incorporated. Short circuit protection device for multiple power supplies. 3,665,253, 5-23-72, Cl. 317-22.

Stefaniak, Hans: *See—*
Finsterwalder, Ulrich; Finsterwalder, Klemens; and Stefaniak, Hans, 3,673,624.

Stefaniszyn, John Joseph, to Northern Electric Company Limited. Anti-ricochet wire guard. 3,661,335, 5-9-72, Cl. 242-25.

Stefanowitz, Albert J.; and Stefanowitz, Kathleen E. Fishing rod holder. 3,659,815, 5-2-72, Cl. 248-42.

Stefanowitz, Kathleen E.: *See—*
Stefanowitz, Albert J.; and Stefanowitz, Kathleen E., 3,659,815.

Stefanska, Barbara: *See—*
Ledochowski, Andrzej; and Stefanska, Barbara, 3,694,448.

Stefansson, Rafn, to Bell & Howell Company. Multiple grid line apparatus for recording oscillographs. 3,646,567, 2-29-72, Cl. 346-23.

Stefansson, Rafn; and Beanston, Robert A., to Bell & Howell Company. Oscillograph record identification apparatus. 3,673,602, 6-27-72, Cl. 346-107.00a.

Stefanucci, Arthur: *See—*
Ponzoni, George Bernard; Protomastro, Michael Gabriel; and Stefanucci, Arthur, 3,634,094.

Stefanucci, Arthur; and Yadlowsky, Slawko. Balanced coffee flavors. 3,682,647, 8-8-72, Cl. 99-68.000.

Stefanucci, Arthur; and Yadlowsky, Slawko. Balanced coffee flavors. 3,700,462, 10-24-72, Cl. 99-68.000.

Stefanye, David. Process for the bluining of steel surfaces. 3,677,829, 7-18-72, Cl. 148-6.350.

Stefenel, Rudy S., to Wiltron Company. Variable gain amplifier system. 3,701,036, 10-24-72, Cl. 330-85.000.

Steffan, William J., to Bunke Concrete Accessories, Inc. Method of making a concrete plug. 3,639,555, 2-1-72, Cl. 264-140.

Steffel, Ronald V.: *See—*
Hollingsworth, Gale C.; and Steffel, Ronald V., 3,641,451.

Steffen, Fred W. Thrust reverser for plug type jet engine nozzle. 3,658,253, 4-25-72, Cl. 239-265.39.

Steffen, Hermann: *See—*
Franke, Kurt; and Steffen, Hermann, 3,684,335.

Steffen, Jurg; and Hofer, Arnold, to Watch Stones Co. Ltd. and Turlabor AG. Method for the fabrication of holes in a work-piece by means of laser-beams and apparatus for the performance of the aforesaid method. 3,656,988, 4-18-72, Cl. 117-5.5.

Steffen, Robert: *See—*
Lorcher, Otfried; and Steffen, Robert, 3,692,710.

Steffen, Robert; Crombach, Arno; Lossen, Hermann; and Bieringer, Johann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Foamed plastics from vinyl polymer dispersions and process for their manufacture. 3,639,297, 2-1-72, Cl. 260-.5.

Steffen, Vincent B. Grain drying device. 3,638,331, 2-1-72, Cl. 34-231.

Steffen, Vincent B. Method of erecting a grain bin. 3,685,232, 8-22-72, Cl. 52-742.000.

Steffens, David G.: *See—*
Thomas, Buford L.; and Steffens, David G., 3,642,181.

Steffens, Eric. Lighting devices. 3,662,381, 5-9-72, Cl. 340-378.

Steffensen, Einar V.; Orshich, John; and Steffensen, John, to McGraw-Edison Company. Primary battery. 3,649,362, 3-14-72, Cl. 136-102.

Steffensen, John: *See—*
Steffensen, Einar V.; Orshich, John; and Steffensen, John, 3,649,362.

Steffey, David R.: *See—*
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Steffgen, Frederick W., to Atlantic Richfield Company. Proportionation of olefins. 3,634,538, 1-11-72, Cl. 260-683.

Stegelman, Albert F.: *See—*
Gunnell, Thomas J.; and Stegelman, Albert F., 3,636,300.

Stegenga, Jerry A., to Milgo Corporation. Pen actuating mechanism for graphical display plotter. 3,686,681, 8-22-72, Cl. 346-141.000.

Steger, Donald J., to International Business Machines Corporation. Compact fluid actuator and method of making it. 3,703,853, 11-28-72, Cl. 92-92.000.

Steger, Robert Hugo. Heating devices for vehicle windows. 3,636,311, 1-18-72, Cl. 219-522.

Steggewentz, Hermann: *See—*
Widmann, Dietrich; Kappelmeyer, Rudolf; Schluter, Kurt; and Steggewentz, Hermann, 3,644,134.

Steggewentz, Hermann, to Siemens Aktiengesellschaft. Device for epitactic precipitation of semiconductor material. 3,665,139, 5-23-72, Cl. 219-10.43.

Stegina, Joseph M.; Cumming, Edward Perry; and Korsgren, Thodore Y., to Robertshaw Controls Company. Temperature control system and controller and method therefor or the like. 3,657,680, 4-18-72, Cl. 337-308.

Stegmaier, Louis T., to General Electric Company. Double blade rotor switch with blades insertable into rotatable shaft. 3,632,935, 1-4-72, Cl. 200-155.

Stegmeier, Gerhard; Lenhart, Helga; Gebler, Horst; and Diener, Horst, to Kalle Aktiengesellschaft. Process for treating the surface of a stretched film. 3,639,134, 2-1-72, Cl. 117-7.

Stehl, George; and November, Daniel, to Xerox Corporation. Vibration demonstration. 3,688,415, 9-5-72, Cl. 35-19.00r.

Stehl, George R., to Mobil Oil Corporation. Can opening dispensing funnel. 3,637,113, 1-25-72, Cl. 222-86.

Stehl, Otto, to Flachglas Aktiengesellschaft Delog-Detag. Guide device for the upper edges of vertically positioned and horizontally moved plates. 3,666,084, 5-30-72, Cl. 198-160.000.

Stehl, Rudolph H., to Dow Chemical Company, The. Pellicular column packing for liquid chromatography. 3,664,967, 5-23-72, Cl. 252-431.

Stehle, Peter Fallon; Wu, Chan K.; Loshaek, Samuel; and Dickstein, Jack, to Borden, Inc. Process for increasing the ethylene content of vinyl acetate-ethylene emulsion copolymers. 3,644,262, 2-22-72, Cl. 260-29.6.

Stehlik, Gerhard, to Osterreichische Studiengesellschaft fur Atomenergie Ges. m.b.H. Process for the sterilization of medicinal tissue-binding substances. 3,704,089, 11-28-72, Cl. 21-54.00r.

Stehlin, Robert A., to Texas Instruments, Incorporated. Process for fabricating a monolithic circuit with high Q capacitor. 3,697,337, 10-10-72, Cl. 148-175.000.

Stehlin, Theodore A., to Hoffman, Helen B. Valves. 3,684,240, 8-15-72, Cl. 251-252.000.

Stehlin, Theodore A., to Hoffman, Helen B. Water treatment apparatus. 3,686,092, 8-22-72, Cl. 204-197.000.

Stehling, Chas. H., Company: *See—*
Horn, Arthur H., 3,655,024.

Stehning, Paul Rolf. Reaction vessel for chemical and physical reactions of viscous masses. 3,678,984, 7-25-72, Cl. 159-25.00a.

Stehr, Charles E.: *See—*
Arnold, Donald R.; Trecker, David J.; and Stehr, Charles E., 3,644,532.

Steichele, Joseph, to SKF Kugellagerfabriken G.m.b.H. Yarn roller guides. 3,681,831, 8-8-72, Cl. 29-116.00r.

Steidinger, Donald J.; and Koepke, Donald H., to Uarco Incorporated. Imprinting attachment for autographic registers. 3,678,851, 7-25-72, Cl. 101-260.000.

Steigelman, James Q., to Chace, W. M., Company. Method and apparatus for cladding metals. 3,693,243, 9-26-72, Cl. 29-487.000.

Steiger, Anton, to Sulzer Brothers Limited. Injection system for diesel engines. 3,633,823, 1-11-72, Cl. 239-94.

Steiger, Anton, to Sulzer Brothers Limited. Fuel injection system for an internal combustion piston engine. 3,640,466, 2-8-72, Cl. 239-94.

Steiger, Fred H., to Personal Products Company. Absorbent products from wet cross-linked wood pulpboard and methods of making the same. 3,658,613, 4-25-72, Cl. 156-153.

Steiger, Robert W.; and Skoog, Ralph E., to Delcon Corporation. Number comparing system. 3,683,332, 8-8-72, Cl. 340-146.200.

Steiger, Werner, to Eidophor, A.G. Television signal conversion apparatus. 3,636,246, 1-18-72, Cl. 178-5.4.

Steigerwald, Carl J., to Beltone Electronics Corporation. Small article dispenser. 3,633,792, 1-11-72, Cl. 221-267.

Steigerwald, Joseph F. Adjustable roller device for sliding closures. 3,670,357, 6-20-72, Cl. 16-105.000.

Steigerwald, Karl Heinz. Method and device for inspecting and/or controlling thermally produced mechanical joints. 3,648,009, 3-7-72, Cl. 219-121.

Steigerwald, Karl Heinz. Laminated imitation leather. 3,695,988, 10-3-72, Cl. 161-109.000.

Steigerwald, Karl-Heinz. Method and apparatus for electron beam treatment of surface layers. 3,687,716, 8-29-72, Cl. 117-93.1gd.

Steigerwald, Klaus; Buechner, Oskar; Ball, Wolfgang; Pfannmueller, Helmut; and Urban, Friedrich. Continuous production of ethylene homopolymers. 3,654,253, 4-4-72, Cl. 260-94.9.

Steigerwald, Klaus; Buechner, Oskar; Urban, Friedrich; and Pfannmueller, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous production of ethylene homopolymers. 3,657,211, 4-18-72, Cl. 260-94.9.

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Steigerwald, Robert F.: *See—*
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Steil, Emeram, to Ritzau, Paul, Pari-Werke KG. Inhaler. 3,658,059, 4-25-72, Cl. 128-173.

Steiman, Wolf, to VCA Corporation. Mixing valve for dispensers. 3,647,120, 3-7-72, Cl. 222-402.22.

Steiman, Wolf, to Valve Corporation of America. Tilt action mixing dispenser valve. 3,675,823, 7-11-72, Cl. 222-145.000.

Steimmig, Anna: *See—*
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Stein, Alex H.; and Coder, William D., Jr., to Dexter Corporation, The and Brunswick Corporation. Bowling lane finish containing a polyurethane and a polyolefin. 3,670,049, 6-13-72, Cl. 260-859.000.

Stein, Alfred: *See—*
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Stein, Alvin A.: *See—*
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Stein, Dieter; and Bootz, Ludwig, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of impact-resistant molding compositions. 3,642,947, 2-15-72, Cl. 260-876.
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Stein, Erich. Fin-propelled watercraft. 3,640,240, 2-8-72, Cl. 115-28.
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Stein, Gary; and Heindich, Allan E., to Applied Power Industries, Inc. Hydraulic motor. 3,687,012, 8-29-72, Cl. 91-507.000.
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Stein, Jacob. Citrus fruit squeezer. 3,669,013, 6-13-72, Cl. 100-211.000.
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Stein, Karl-Ulrich, to Siemens Aktiengesellschaft. Evaluation circuit for the determination of information sensed from matrix memories. 3,656,106, 4-11-72, Cl. 340-146.1.
Stein, Karl-Ulrich, to Siemens Aktiengesellschaft. Apparatus producing a magnetic return structure. 3,689,210, 9-5-72, Cl. 425-123.000.
Stein, Lawrence, to United States of America, Atomic Energy Commission. Method of preparing oxidized radon solutions. 3,660,300, 5-2-72, Cl. 252-301.10r.
Stein, Leo. Transportable photographic enlarger. 3,677,636, 7-18-72, Cl. 355-18.000.
Stein, Leonard: *See*—
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Stein, Michel Guy Pierre, to Societe Anonyme Telecommunications Radioelectriques et Telephoniques, T.R.T. Telegraphy receiver for harmonic telegraphy. 3,647,967, 3-7-72, Cl. 178-88.
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Stein, Reinhardt P.; and Smith, Herchel, to American Home Products Corporation. 17α-Alkynyl-17β-alkylgon-13-enes, processes therefor and products therefrom. 3,644,437, 2-22-72, Cl. 260-397.3.
Stein, Reinhardt P.; Smith, Robert C., Jr.; and Smith, Herchel, to American Home Products Corporation. Preparation of steroidal formate esters. 3,647,784, 3-7-72, Cl. 260-239.55.
Stein, Reinhardt P.; and Smith, Herchel, to American Home Products Corporation. Novel 3-cyclopentyl ethers of 13-alkyl-gonpoly-enes. 3,649,621, 3-14-72, Cl. 260-239.55.
Stein, Reinhardt P.; and Smith, Herchel, to American Home Products Corporation. 13-Polycarbonalkyl-16-methylgona-1,3,5(10)-trienes and 13-polycarbonalkyl-16-methylgon-4-en-3-ones and intermediates for their production. 3,704,253, 11-28-72, Cl. 260-397.400.
Stein, Richard J. Electro-optical display device employing liquid crystals. 3,666,881, 5-30-72, Cl. 178-5.4.
Stein, Robert, 25% to Nolte, Albert C., Jr. Steam jet refrigeration apparatus. 3,680,327, 8-1-72, Cl. 62-226.000.
Stein, Robert, to Nash Engineering Company. Ejector apparatus and method of utilizing same. 3,694,107, 9-26-72, Cl. 417-167.000.
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Stein, Walter. Hypodermic syringe. 3,677,246, 7-18-72, Cl. 128-218.00g.
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Stein, William B., to Warner & Swasey Company, The. Cutoff tool having improved chip relieving surface. 3,654,681, 4-11-72, Cl. 29-95.
Stein, William B., to Warner & Swasey Company, The. Cutoff tool having improved cutting tip. 3,660,877, 5-9-72, Cl. 29-95.
Stein, William Harold. Tow handle for water skiing and the like. 3,695,210, 10-3-72, Cl. 115-6.100.
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Steinbach, Richard L. Correction accessory for hectographic stencils. 3,650,794, 3-21-72, Cl. 117-2.
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Steinberg, David H.; and Dexter, Martin, to Ciba-Geigy Corporation. Dialkyl-4-hydroxyphenylcarboxylates of tris (hydroxy-alkyl) isocyanurate. 3,707,542, 12-26-72, Cl. 260-248.0ns.
Steinberg, David H.; and Dexter, Martin, to Ciba-Geigy Corporation. Dibutyl-4-hydroxyphenylbenzoates of tris(hydroxyalkyl) isocyanurate. 3,707,543, 12-26-72, Cl. 260-248.0ns.
Steinberg, David Herbert: *See*—
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Steinberg, David Herbert; Dexter, Martin; and Spivack, John D., to Ciba-Geigy Corporation. 4,4'-Alkylidene-diphenol-bis-(di-t-butyl-4'''-hydroxyphenyl) alkanoates. 3,657,321, 4-18-72, Cl. 260-473.
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Steinemann, Samuel, to Straumann, Dr., Ing., Reinhard, Institut. Implants of titanium or a titanium alloy for the surgical treatment of bones. 3,643,658, 2-22-72, Cl. 128-92.
Steinemann, Samuel; and Levenberger, Lucien, to Institut Dr. Ing Reinhard Straumann A.G. Anti-magnetic timekeeping mechanisms. 3,683,616, 8-15-72, Cl. 58-106.500.
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Steingroever, Erich, to Elektro-Physik Hans Nix & Dr. Ing. Steinguever, KG. Magnet for use in magnetic thickness gauges. 3,699,487, 10-17-72, Cl. 335-302.000.
Steinhardt, Ralph G.; and Calhoun, Julia W. Self-slitting spectroscope. 3,687,518, 8-29-72, Cl. 356-74.000.
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Steitz, Alfred, Jr., to Standard Oil Company (Indiana). Purification of phenylindane carboxylic acids by permanganate treatment of the sodium salts. 3,699,160, 10-17-72, Cl. 260-525.000.
Steitz, William R.; Bradley, Robert O.; and Waterworth, Thomas H., 50% each to Toledo Engineering Co., Inc. and Elemelt, Ltd. Electric glass furnace. 3,634,588, 1-11-72, Cl. 13-6.
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Stelck, Lionel L., to Multi-Photo Camera Corporation. Camera providing exposures of multiple areas of a photographic medium. 3,650,186, 3-21-72, Cl. 95-1.1.
Steli Konsult: *See—*
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Stell, Thomas W.: *See—*
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Stella, Gianfranco, to MPM-Materiali Protettivi Milano S.r.L. Preservative and impervious surface coating paste. 3,655,612, 4-11-72, Cl. 260-41.5.
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Stellar Industries Ltd.: *See—*
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Steller, Kenneth E., to Hercules Incorporated. Polymerization catalysts. 3,642,667, 2-15-72, Cl. 260-2.
Stelling, Mogens. Transportation system. 3,670,658, 6-20-72, Cl. 104-22.
Stelling, Walter R., Jr.; Siegal, Burton L.; and Talbott, Michael M., to Orbitex, Inc. Method of and apparatus for making honeycomb core. 3,655,475, 4-11-72, Cl. 156-197.
Stelts, Philip D.; and Kern, David W., to Bethlehem Steel Corporation. Instrument lance for basic oxygen steelmaking furnace. 3,672,222, 6-27-72, Cl. 73-343.00r.
Steltz, Douglas C., to Portex, Inc. Device for fluidizing stored material. 3,656,812, 4-18-72, Cl. 302-53.
Steltzer, Ernest R.: *See—*
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Stelzer, William, to Kelsey-Hayes Company. Pressure modulating device for use in anti-skid brake system. 3,695,732, 10-3-72, Cl. 303-21.00f.
Stelzer, William, to Kelsey-Hayes Company. Proportioning device. 3,706,477, 12-19-72, Cl. 303-6.00c.
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Pentegov, Igor Vladimirovich; Semergeev, Stepan Ivanovich; Sheikovsky, Dmitry Alexeevich; Mescheryak, Sergei Nikolaevich; Stemkovsky, Evgeny Petrovich; Litvin, Leonid Vladimirovich; and Shelest, Nikolai Antonovich, 3,663,909.
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Stemmler, Herbert, to Aktiengesellschaft Brown, Boveri & Cie. Converter arrangement for feeding variable speed AC motor. 3,639,820, 2-1-72, Cl. 318-147.
Stemmler, Kurt, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei KG. Apparatus for folding the closing flap of envelopes. 3,668,982, 6-13-72, Cl. 93-62.000.
Stemniski, John R., to Monsanto Research Corporation. Monomeric and polymeric bis (aryl-oxyaryl) tin compounds. 3,674,822, 7-4-72, Cl. 260-429.700.
Stemp, Leslie William, to Cowl Industries Limited. Spiral Muffler. 3,692,142, 9-19-72, Cl. 181-50.000.
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Stenger, August M. Oil distribution system. 3,687,232, 8-29-72, Cl. 184-6.800.
Stenger, Joseph D. Compressed gas operated engine. 3,650,179, 3-21-72, Cl. 91-176.
Stenger, Richard E.; and Gleason, Clifford C., to General Electric Company. High fuel injection density combustion chamber for a gas turbine engine. 3,653,207, 4-4-72, Cl. 60-39.65.
Stenger, Vernon A.; and Kramer, Walter R., to Dow Chemical Company, The. Process for solution mining of silver. 3,647,261, 3-7-72, Cl. 299-4.
Stenger, Vernon A.; and Kramer, Walter R., to Dow Chemical Company, The. Process for producing anhydrous sodium chloride and purified saturated brine. 3,655,333, 4-11-72, Cl. 23-89.
Stenger, Vernon A., to Dow Chemical Company, The. Mercury recovery from sediment. 3,679,396, 7-25-72, Cl. 75-81.000.
Stengl, Stephen. Golf ball gun with valve adjustment and trigger linkage. 3,680,540, 8-1-72, Cl. 124-11.000.
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Stenmark, Donald G., to Esso Research and Engineering Company. Production of aromatics. 3,701,813, 10-31-72, Cl. 260-668.00a.
Stenmark, Donald G., to Esso Research and Engineering Company. Separation of aromatics. 3,707,577, 12-26-72, Cl. 260-674.00a.
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Stenstrom, Lennart Arvid, to Alfa-Laval AB. Method and apparatus for heat treatment of packaged products. 3,692,616, 9-19-72, Cl. 165-2.000.
Stenuick, Marcel, to S.P.R.L. Stenuick Freres. Pneumatic drill for boring. 3,640,350, 2-8-72, Cl. 173-61.
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Stepanek, Roy W., to Pettibone Corporation. Crusher. 3,647,150, 3-7-72, Cl. 241-75.
Stepanets, Alexei Trofimovich: *See*—
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Stepenske, Lawrence D.; and Cassidy, Edward K., to National Can Corporation. Apparatus for coating articles. 3,677,226, 7-18-72, Cl. 118-70.000.
Stephan, A., und Sohne: *See*—
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Stephan, Gerhard; Harst, Heinz; Laux, Gunter; and Kappes, Alfred, to NSU Motorenwerke Aktiengesellschaft and Wankel G.m.b.H. Process for producing a wear-resistant surface on a workpiece. 3,640,799, 2-8-72, Cl. 204-38.
Stephan, Hans: *See*—
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Stephan, Hans Werner: *See*—
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Stephan, J. T.; and Golick, A. J., to Commercial Solvents Corporation. Protein adhesive compositions. 3,706,950, 12-19-72, Cl. 156-336.000.
Stephan, John T.; and Golick, Alex James, to Commercial Solvents Corporation. Protein adhesive compositions. 3,640,740, 2-8-72, Cl. 106-138.
Stephan, John T.; and Golick, A. J., to Commercial Solvents Corporation. Process for joining cellulosic articles utilizing a two part adhesive, wherein the first part is a partially reacted condensate of resorcinol and formaldehyde, and the second part is n oxazoladine. 3,705,832, 12-12-72, Cl. 156-310.000.
Stephan, Peter: *See*—
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Stephan, Rudolf: *See*—
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Stephan, Rudolf; Welze, Gerhard; Reinhard, Hans; and Frank, Hans-Ulrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of bonded nonwovens by the wet method. 3,635,776, 1-18-72, Cl. 156-315.
Stephan, Rudolf; and Richtzenhain, Hermann, to Dynamit Nobel Aktiengesellschaft. Method for the continuous production of 1,1-dichlorethane. 3,707,574, 12-26-72, Cl. 260-658.00r.
Stephan, Wolfgang, to Biotest Serum Institut GmbH. Process for preparation of storage stable hepatitis-free serum. 3,686,395, 8-22-72, Cl. 424-101.000.
Stephanoff, Nichlas N., to Fluid Energy Processing & Equipment Company. Constant acceleration fluid energy mill. 3,648,936, 3-14-72, Cl. 241-5.
Stephanoff, Nicholas N., to Fluid Energy Processing & Equipment Company. Fluid energy drying mill. 3,667,131, 6-6-72, Cl. 34-10.
Stephanoff, Nicholas N., to Fluid Energy Processing & Equipment Company. Angular impact fluid energy mill. 3,675,858, 7-11-72, Cl. 241-5.000.
Stephanoff, Nicholas N., to Fluid Energy Processing & Equipment Company. Drying process for pulverulent material. 3,699,662, 10-24-72, Cl. 34-10.000.
Stephans, Larry C.: *See*—
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Stephansen, Erik W., to Bechtel International Corporation. Microwave drying apparatus. 3,672,066, 6-27-72, Cl. 34-1.000.
Stephen, George A., Jr. Gas fired barbecue kettle. 3,688,758, 9-5-72, Cl. 126-41.00r.
Stephen, Keith H.: *See*—
Mowrey, Rowland G.; Stephen, Keith H.; and Wolfarth, Eugene F., 3,706,561.
Stephen, R. A., & Company Limited: *See*—
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Stephen William Tonkin, to British Aircraft Corporation, Limited. Dampers for spinning bodies. 3,685,770, 8-22-72, Cl. 315-1.0sa.
Stephens, Charles R.: *See*—
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Stephens, Curtis L., to Eastman Kodak Company. Method of forming heterogeneous photoconductive compositions and elements. 3,679,407, 7-25-72, Cl. 96-1.600.
Stephens, Dennis T.; and Flees, Peter, to Hoover Ball and Bearing Company. Pallet accessory. 3,702,676, 11-14-72, Cl. 229-14.00c.
Stephens, Donald H.: *See*—
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Stephens, Edward: *See*—
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Stephens, Edward J., to Emhart Corporation. Glassware inspection apparatus employing fiber optic guides. 3,639,067, 2-1-72, Cl. 356-240.
Stephens, Erwin E. Earpiece for hearing aid having sound inlet for high frequencies. 3,676,611, 7-11-72, Cl. 179-107.00e.

Stephens, Frank H., Jr., to Engelhard Minerals & Chemicals Corporation. Sampling and control system for cathodic protection. 3,634,222, 111-2, Cl. 204-196.

Stephens, Frank H., Jr.; Byrne, Paul B.; and Anderson, Edward P., to Engelhard Minerals & Chemicals Corporation. Electrical ground filter means for boats supplied with a shore-based source of alternating current power. 3,636,409, 1-18-72, Cl. 317-18.

Stephens, Frederick N.; Rowlett, Glenford; and Beard, James D., to Stephens Industries, Inc. Method and apparatus for opening envelopes. 3,691,726, 9-19-72, Cl. 53-381.000.

Stephens, Howard L.; and Reed, Thomas F., to United States of America, Agriculture. Polysaccharide-reinforced rubber. 3,645,940, 2-29-72, Cl. 260-17.4.

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Stephens, James M.; and Tallman, Erven, to Shur-Lift Trailer & Manufacturing Co. Extendable scaffold. 3,664,459, 5-23-72, Cl. 182-141.000.

Stephens, James R., to Standard Oil Company (Indiana). Polytrimellitamide-imides in phenolic solvents. 3,661,832, 5-9-72, Cl. 260-33.4.

Stephens, Joe F., to General Electric Company. Anode electrode for electron discharge device. 3,641,380, 2-8-72, Cl. 313-39.

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Stephens, John F. Tape guide spindle. 3,658,227, 4-25-72, Cl. 226-196.

Stephens, Kenneth D., Jr., to Esteves, Alberto R., mesne. Low bandwidth color information transmission system. 3,683,106, 8-8-72, Cl. 178-5.20r.

Stephens, Leonard W., to Palmer Filter Equipment Company. Reversible one-way clutch. 3,679,031, 7-25-72, Cl. 192-44.000.

Stephens, Nancy H.: *See—*
Acree, Elick H.; Case, Forrest Neil; and Stephens, Nancy H., 3,700,602.

Stephens, Robert K., to Polaroid Corporation. Novel photographic products and processes. 3,676,123, 7-11-72, Cl. 96-29.000.

Stephens, Robert K., to Polaroid Corporation. Novel frictional resistance motion picture film. 3,679,411, 7-25-72, Cl. 96-29.000.

Stephens, Ruth E., to Ethyl Corporation. Neodymium oxide-barium oxide catalyst composition. 3,676,370, 7-11-72, Cl. 252-455.00r.

Stephens, Thomas M.: *See—*
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Stephens, Thomas M., to Dohrmann Instruments Company. Solid sampler, apparatus and method. 3,647,385, 3-7-72, Cl. 23-230.

Stephenson, Charles F.: *See—*
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Stephenson, Charles F.; Van Dyck, Kenneth A.; and Wyatt, James B., to Gillette Company, The. Razor head. 3,650,027, 3-21-72, Cl. 30-58.

Stephenson, Donald A., to Corning Glass Works. Quantitative chemical analysis by X-ray emission spectroscopy. 3,703,726, 11-21-72, Cl. 444-1.000.

Stephenson, Earle W.; Newberry, James G.; and Hazzard, Robert C., said Newberry and said Hazzard assor. to International Minerals & Chemical Corporation and said Stephenson assor. to Kennametal, Inc. Cage mill. 3,659,793, 5-2-72, Cl. 241-187.

Stephenson, George M.: *See—*
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Stephenson, George M.; and Soriano, Charles A., said Soriano assor. to said Stephenson, George M. Remote delivery nozzle and pressurized container assemblies. 3,650,438, 3-21-72, Cl. 222-402.22.

Stephenson, James B.: *See—*
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Stephenson, Jerry E.: *See—*
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Stephenson, John Michael, to National Research Development Corporation. Tachogenerators which determine the speed and acceleration of rotating shaft by using two counter rotating shutters. 3,654,480, 4-4-72, Cl. 250-231.

Stephenson, Kenrick O., Jr., to Digital Data Systems Corporation. Transaction accumulator for a credit verification system. 3,657,702, 4-18-72, Cl. 340-149.

Stephenson, Lee P., to Chevron Research Company. Method for processing three-dimensional seismic data to select and plot said data on a two-dimensional dipslay surface. 3,638,178, 1-25-72, Cl. 340-15.5.

Stephenson, Leslie; and Hill, Margaret Elizabeth, to Glaxo Laboratories, Limited. Process for preparing 9α-unsubstituted chloro-19-nor steroids of the androstane or 11β-chloro-19-nor series. 3,660,437, 5-2-72, Cl. 260-397.45.

Stephenson, Oliver; Wild, Anthony Musgrave; and Hayman, David Frank, to BDH Pharmaceuticals Limited. Esters of p-biphenylylacetic acid with polyhydric alcohols. 3,706,782, 12-19-72, Cl. 260-469.000.

Stephenson, Robert L.: *See—*
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Lohr, Thomas E.; and Stephenson, Robert L., 3,695,696.

Stephenson, Robert L., to Allied Chemical Corporation. Method and apparatus for filling vehicle gas bags. 3,674,059, 7-4-72, Cl. 141-4.000.

Stephenson, Robert L., to Allied Chemical Corporation. Seat belt buckle assembly. 3,675,281, 7-11-72, Cl. 24-230.000.

Stephenson, Robert L., to Allied Chemical Corporation. Vehicle safety assembly. 3,680,884, 8-1-72, Cl. 280-150.0ab.

Stephenson, Robert L.; and Loomba, Yogi, to Allied Chemical Corporation. Mandatory three point seat belt tongue system. 3,680,914, 8-1-72, Cl. 297-389.000.

Stephenson, William B., to United States of America, Air Force. Pumping system for low density gas flow in space chambers and wind tunnels. 3,648,473, 3-14-72, Cl. 62-55.5.

Stepin, Anatoly Loginovich: *See—*
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Nikonov, Vladimir Filippovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Riskind, Alexandr Moiseevich; Stepin, Anatoly Loginovich; Shepelyakovsky, Konstantin Zakharovich; and Shklyarov, Isaak Nakhimovich, 3,684,854.
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Stepmann, Walter, Sr., to Stahl-Armaturesas Persta GmbH KG. Valve construction. 3,686,969, 8-29-72, Cl. 74-424.8va.

Stepp, Benjamin D. Method for constructing a building wall. 3,691,714, 9-19-72, Cl. 52-743.000.

Stepp, Wendell H., to Akwell Industries Incorporated. Paper layers laminated by polyethylene layer. 3,684,643, 8-15-72, Cl. 161-160.000.

Steppan, Hartmut: *See—*
Moschel, Albrecht; Luders, Walter; and Steppan, Hartmut, 3,699,086.

Steppan, Hartmut; Moschel, Albrecht; and Luders, Walter, to Kalle Aktiengesellschaft, mesne. Lightsensitive film element comprising a polyester of a polyhydric alcohol and β-substituted-α-cyanacylic acid. 3,635,720, 1-18-72, Cl. 96-115.

Steppe, Kenneth E.; and Webre, Alfred L., Jr., to Owens-Illinois, Inc. Apparatus for removing rock from unscreened sugar cane juice. 3,698,949, 10-17-72, Cl. 127-9.000.

Steranko, James J., to Inforex, Inc. Electrical circuit board wiring. 3,673,681, 7-4-72, Cl. 29-626.000.

Steredyne, Inc.: *See—*
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Sterigard Company: *See—*
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Sterler, Bernard. Chess game apparatus. 3,700,242, 10-24-72, Cl. 273-131.0kp.

Sterlicchi, Helen; and Sterlicchi, Pasquale J. Surface projectile game board having interchangeable scoring board members. 3,647,215, 3-7-72, Cl. 273-123.

Sterlicchi, Pasquale J.: *See—*
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Sterlich, Heinrich. Device for automatic plant watering. 3,696,827, 10-10-72, Cl. 137-79.000.

Sterlin, Basya Yakovlevna: *See—*
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Sterling, Henley Frank; and Swann, Richard Charles George, to International Standard Electric Corporation. Method of forming silicon oxide coatings in an electric discharge. 3,655,438, 4-11-72, Cl. 117-201.

Sterling, John Deo, Jr., to Du Pont de Nemours, E. I., and Company. Perfluoropolyether esters. 3,646,112, 2-29-72, Cl. 260-484.

Sterling, John E., to General Electric Company. Household refrigerator including automatic ice maker and door mounted ice storage receptacle. 3,635,043, 1-18-72, Cl. 62-137.

Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling apparatus. 3,635,325, 1-18-72, Cl. 198-33.

Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling apparatus. 3,643,783, 2-22-72, Cl. 198-33.

Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling apparatus. 3,656,604, 4-18-72, Cl. 198-33.

Sterling, Walter S., to Pneumatic Scale Corporation. Cap feeding apparatus. 3,696,924, 10-10-72, Cl. 209-73.000.

Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling and orienting apparatus. 3,706,368, 12-19-72, Cl. 198-33.0aa.

Sterlini, Jacques, to Compagnie-Electro-Mecanique. Process for the rational exchange of heat in counter-current heat exchanges where the exchanges are unbalanced. 3,667,230, 6-6-72, Cl. 60-65.000.

Sterly, Glenn E., to Ampex Corporation. Pause control mechanism for a cassette changer. 3,653,669, 4-4-72, Cl. 274-4.

Sterly, Glenn E., to Ampex Corporation. Automatic termination of operation of a cassette changer. 3,659,858, 5-2-72, Cl. 274-4.

Sterly, Glenn E., to Ampex Corporation. Directional control switch means for a cassette changer. 3,661,396, 5-9-72, Cl. 274-4.

Sterly, Glenn E., to Ampex Corporation. Repeat means for a cassette changer. 3,690,679, 9-12-72, Cl. 274-4.00f.

Stermac, Boris, to Premium Forest Products Limited. Adjustable journalling means. 3,646,635, 3-7-72, Cl. 16-129.

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Stern, David M., to Honeywell Inc. Analog to digital converter. 3,683,369, 8-8-72, Cl. 340-347.0ad.

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Stern, Herman Abraham, to RCA Corporation. Fabrication of liquid crystal devices. 3,701,368, 10-31-72, Cl. 141-1.000.

Stern, Howard R.; Marshall, James E.; and Sloane, Thomas E., Jr., to Mattel, Inc. Apparatus for automatically starting a rotatable member at predetermined positions sequentially. 3,658,346, 4-25-72, Cl. 274-9.00r.

Stern, Jason L. Self-opening envelope. 3,655,120, 4-11-72, Cl. 229-86.

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Stern, Lionel: *See*—
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Stern, Lionel; and Hadaway, Bernard Milton, to Richardson, A. T., & Sons Proprietary Limited. Manufacture of ring gear and other ring blanks. 3,635,063, 1-18-72, Cl. 72-130.

Stern, Max Herman: *See*—
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Stern, Theodore J., to A.I.T. Industries, Inc. Edge control device for grinding machine. 3,673,738, 7-4-72, Cl. 51-93.000.

Stern, Tobias: *See*—
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Sternal, Lambert S., to Timesavers, Inc., mesne. Apparatus for effecting superior sanding. 3,701,219, 10-31-72, Cl. 51-140.000.

Sternau, Martin M., to Grace, W. R., & Co. Apparatus for making a closure on a container. 3,701,234, 10-31-72, Cl. 53-329.000.

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Sternberg, Hubert H. A., to Heidelberger Druckmaschinen Aktiengesellschaft. Frictional gear backlash eliminating means in sheet fed rotary printer. 3,680,481, 8-1-72, Cl. 101-232.000.

Sternberg, Hyman M.; Piacesi, Dante, Jr.; and Katz, Howard, to United States of America, Navy. Rod warhead. 3,675,577, 7-11-72, Cl. 102-67.000.

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Sternberg, Moshe, to Miles Laboratories, Inc. Purification of protease. 3,655,513, 4-11-72, Cl. 195-66.

Sternberg, Shmuel; Bixler, Harris J.; and Michaels, Alan S., to Amicon Corporation. Encapsulating particles and process for making same. 3,639,306, 2-1-72, Cl. 260-2.5.

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Sterner, Russell L.; and Lowe, William L., to Grove Manufacturing Company. Safe load control system for telescopic crane booms. 3,641,551, 2-8-72, Cl. 340-267.

Sterner, Russell L., to Grove Manufacturing Company. Pivot structure for cantilevered crane boom. 3,684,324, 8-15-72, Cl. 287-100.000.

Sternhoff, Lennart B. T.: *See—*
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Sternling, Charles V.: *See—*
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Sterns, Lorance E.; and Howard, Arthur G., 1/2 each to Churchman, M. S., Co., Inc. and Keyless Lock Company, Inc. Ladder scaffold vehicle. 3,664,458, 5-23-72, Cl. 182-102.

Sterns, Robert B.; and Richards, Robert R., to Logic Systems, Inc. Positioning of multiple elements. 3,646,418, 2-29-72, Cl. 318-603.

Stero N.V.: *See—*
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Sterret, John D., Jr., to Westinghouse Electric Corporation. Rolling mill gauge control during acceleration. 3,704,609, 12-5-72, Cl. 72-8.000.

Sterrett, Eugene L. Seat cushion or pillow. 3,638,255, 2-1-72, Cl. 5-337.

Sterrett, Eugene L. Gas separating device. 3,675,394, 7-11-72, Cl. 55-518.000.

Sterrett, Eugene L., to Marathon Oil Company. Liquid cryogen storage tank for shore, ship or barge. 3,682,346, 8-8-72, Cl. 220-9.00a.

Sterrett, Robert W.; and Jacob, Francis J., to Grace, W. R., & Co. Insulation product and method. 3,677,874, 7-18-72, Cl. 161-116.000.

Steru, Marius: *See—*
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Sterzer, Fred, to RCA Corporation. Transferred electron amplifier with oscillation stabilization circuit. 3,636,461, 1-18-72, Cl. 330-5.

Sterzik, Harry Klaus. Method for the chemical treatment of living trees and injection cartridge for the performance of the aforesaid method. 3,691,683, 9-19-72, Cl. 47-57.500.

Stesiliver Control Royalties: *See—*
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Stessel, Martin C., to Motorola, Inc. Push button switch assembly. 3,632,938. 1-4-72, Cl. 200-167.

Stetsenko, Vladimir Vasilievich: *See—*
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Stetsjuk, Nikolai Arsentievich: *See—*
Marichev, Vladimir Petrovich; Slepian, Viktor Iosifovich; Stetsjuk, Nikolai Arsentievich; and Ginzburg, Samuil Borisovich, 3,684,245.

Stetson, Earl W., to General Electric Company. Sparkgap chamber with arc stretching teeth embodying optimum heat sink means. 3,671,797, 6-20-72, Cl. 313-325.000.

Stetson, Earl W., to General Electric Company. Self-supporting load bearing voltage grading resistors for a lightning arrester. 3,671,800, 6-20-72, Cl. 315-36.000.

Stetson, Harold Wilbur; and Gyurk, Warren Joseph, to Western Electric Company Incorporated. Alumina substrates. 3,698,923, 10-17-72, Cl. 106-62.000.

Stetter, Gunter, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Pyrotechnic emitter. 3,680,484, 8-1-72, Cl. 102-87.000.

Stetter, Gunter; and Reinemann, Ullrich, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Pyrotechnic radiator construction. 3,695,180, 10-3-72, Cl. 102-87.000.

Stettler, Christian H., to Grotnes Machine Works, Inc. Method and apparatus for forming cylinders from strip material. 3,662,940, 5-16-72, Cl. 228-15.

Stettner, Dennis; and Hollison, Ronald B. Ski equipment lock assembly. 3,670,535, 6-20-72, Cl. 70-58.000.

Stetzler, Grant F., to Western Electric Company, Incorporated. System and method for determining the maximum output voltage swing on operational amplifiers. 3,702,970, 11-14-72, Cl. 330-2.000.

Steuber, Charles H.; Cremer, Robert L.; and Wood, Jerry D., to Buddy L Corporation. Toy vehicle. 3,633,307, 1-11-72, Cl. 46-201.

Steucke, Erwin W.: *See—*
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Steude, Heinrich: *See—*
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Schliebs, Reinhard; Brandt, Hans-Walther; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; and Schnuchel, Gunther, 3,686,349.

Steudel, Fritz, to Raytheon Company. Phased array. 3,680,109, 7-25-72, Cl. 343-100.0sa.

Steudel, Goetz Wolfgang, to RCA Corporation. Voltage-controlled oscillator using complementary symmetry MOSFET devices. 3,702,446, 11-7-72, Cl. 331-111.000.

Steufmehl, Willi, to Maschinen- und Bohrgerate-Fabrik Alfred Wirth & Co., KG. Machinery for driving tunnels, galleries or the like. 3,639,006, 2-1-72, Cl. 299-31.

Steufmehl, Willi, to Maschinen-Und Bohrgerate-Fabrik Wirth, Alfred, & Co. K.G. Stepper advancing apparatus for drilling inclined tunnels. 3,642,326, 2-15-72, Cl. 299-31.

Steunenberg, Robert K.: *See—*
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Steury, Virgil H. Camper type vehicle and drive assembly for raising the top thereof. 3,674,305, 7-4-72, Cl. 296-27.000.

Stevels, William A., to Aldrich Machine Works. Textile picker having means for varying feed of a web passing therethrough. 3,680,192, 8-1-72, Cl. 19-240.000.

Steven Manufacturing Co.: *See—*
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Steveninck, Johannes Van, to Shell Oil Company. Method and apparatus for burying a pipeline having fixed fluidization means. 3,695,049, 10-3-72, Cl. 61-72.400.

Stevens, Alan F.; and Bergson, Arnold A., to Quest Electronics Corporation. Sound hazard integrator. 3,697,973, 10-10-72, Cl. 340-261.000.

Stevens, Arthur Dexter, to Marconi Company Limited, The. Fault location and reconfiguration in redundant data processors. 3,681,578, 8-1-72, Cl. 235-153.000.

Stevens, Arthur L. Lapidary holder and attachment therefor. 3,688,452, 9-5-72, Cl. 51-229.000.

Stevens, Ash, Inc.: *See—*
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Stevens, Bernard, to General American Transportation Corporation. Stamp dispensing machine. 3,655,109, 4-11-72, Cl. 226-46.

Stevens, Brooks, Jr., to Riggs & Lombard Inc. Method and apparatus for processing knit goods and the like. 3,643,475, 2-22-72, Cl. 68-18.

Stevens, Bruce W., to Menasha Corporation, mesne. Drainage foil resurfacing machine. 3,659,497, 5-2-72, Cl. 90-17.000.

Stevens, Calvin L.: *See—*
Ash, Arthur B.; and Stevens, Calvin L., 3,694,498.

Stevens, Charles Edward, to Exton, John M.; as trustee of the Trust Exton Development Company. Apparatus for ornamenting glass articles. 3,676,962, 7-18-72, Cl. 51-227.00r.

Stevens, Charles Edward, to Exton, John M.; trustee of the trust known for business purposes as the Exton Development Company. Method for manufacturing masks to be used for ornamenting glass articles in an abrasive blasting process. 3,702,496, 11-14-72, Cl 29-472.900.

Stevens, Charles H., to Sybron Corporation. Adjustable shim for pressure vessel doors. 3,694,145, 9-26-72, Cl. 21-91.000.

Stevens, Christopher Richard: *See—*
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Stevens Corporation: *See—*
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Stevens, Curtis E.; and Phillips, Chandler A., to Bertea Corporation. System for detecting the position of a movable element. 3,701,136, 10-24-72, Cl. 340-199.000.

Stevens, Curtis Edgar, to Bertea Corporation. Anti-skid system. 3,671,082, 6-20-72, Cl. 303-21.00p.

Stevens, David; and Blau, Donald Z. Carriage for waste disposal bags and the like. 3,666,283, 5-30-72, Cl. 280-36.
Stevens, Derek Norman; and Underwood, Peter James, to General Motors Corporation. Windscreen wipers. 3,638,512, 2-1-72, Cl. 74-595.
Stevens, Don L.: *See—*
Filter, Harold E.; and Stevens, Don L., 3,632,458.
Stevens, Douglas N.; Bisque, Ramond E.; and Bloom, Duane N., to Earth Sciences, Inc. Process for the recovery of diamond particles from alumina or silicate wastes. 3,644,094, 2-22-72, Cl. 23-209.9.
Stevens, Edward J., to Minnesota Mining and Manufacturing Company. Skewed billets for making louvered films. 3,707,416, 12-26-72, Cl. 156-196.000.
Stevens, Elbert M. Anchor. 3,682,125, 8-8-72, Cl. 114-206.00r.
Stevens, Emerson W., to United States of America, Air Force. S/TOL aircraft. 3,660,981, 5-9-72, Cl. 60-226.00r.
Stevens, Eugene H.; and Sullivan, Paul A., to Hughes Aircraft Company. Apparatus for synchronizing an opaque video tape with a video display. 3,659,049, 4-25-72, Cl. 178-69.5tv.
Stevens, Fred C. Non-skid braking system for vehicles. 3,659,904, 5-2-72, Cl. 303-21.0cg.
Stevens, Gary L. Method of treating cathodo-luminescent phosphors. 3,637,410, 1-25-72, Cl. 117-8.
Stevens, George D. Packaged composition for enhancing the growth of plants. 3,647,411, 3-7-72, Cl. 71-1.
Stevens, Guy William W., to Eastman Kodak Company. Focus control for optical instruments. 3,648,587, 3-14-72, Cl. 95-44.
Stevens, Harry G.; and Smith, Robert Earl. Work holder. 3,695,468, 10-3-72, Cl. 214-340.000.
Stevens, Harry R.: *See—*
Palmason, Einar H.; and Stevens, Harry R., 3,646,879.
Stevens, Henry C.: *See—*
Barter, James A.; Eddy, Clifford O.; and Stevens, Henry C., 3,642,755.
Doran, Thomas J.; Wagner, Melvin P.; and Stevens, Henry C., 3,664,403.
Stevens, Henry C., to PPG Industries, Inc. Polymerization of fluorine-containing ethylenically unsaturated monomers in the presence of a beta-hydroxyalkyl tertinary-butyl peroxide. 3,640,985, 2-8-72, Cl. 260-92.1.
Stevens, Henry C.; and Wartmann, Hans J., to PPG Industries, Inc. O,O'-diol bisperoxycarborates. 3,652,631, 3-28-72, Cl. 260-453.
Stevens, Hugh D.: *See—*
Mitchell, Reid L.; Muller, Thomas E.; Stevens, Hugh D.; and Tabke, Robert S., 3,670,069.
Stevens, J. P., & Co., Inc.: *See—*
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Stevens, Justus Bickford; Meyer, Walter William; and Howland, John Sinclaire, to Sealol, Inc. Damping device for a mechanical fluid seal. 3,658,349, 4-25-72, Cl. 277-89.
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Stewart, Mary J.; and Price, John A., to FMC Corporation. Organo mercapto-antimony compound as polycondensation catalysts. 3,644,292, 2-22-72, Cl. 260-75.
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Stewart, William H. Self-mounting siding. 3,631,642, 1-4-72, Cl. 52-105.
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Stieger, Gerhard; and Flasch, Josef, to Reichhold-Albert-Chemie Aktiengesellschaft. Water-soluble binders prepared from phenolic resin and mono-olefinically unsaturated acid. 3,705,862, 12-12-72, Cl. 260-19.0ua.
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Stier, Ronald L., to Belden Corporation. Shielded cable. 3,639,674, 2-1-72, Cl. 174-36.
Stieren, Arthur J. Apparatus for transferring piled silage. 3,687,322, 8-29-72, Cl. 214-520.000.
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Stiff, Bernard G. E.; and Finelli, Thomas M., to Avco Corporation. Bearing. 3,675,980, 7-11-72, Cl. 308-238.000.
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Stiles, Alvin B. Uniform composite structures of catalyst and fibrous refractory. 3,691,097, 9-12-72, Cl. 252-440.000.
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Stimson, Allen Gwyn, to Eastman Kodak Company. Exposure control. 3,689,805, 9-5-72, Cl. 317-124.000.
Stimson, Paul B., to United States of America, Navy. Directional inclinometer. 3,706,225, 12-19-72, Cl. 73-189.000.
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Stine, Laurence O.; and Broughton, Donald B., to Universal Oil Products Company. Process for the production and recovery of ortho-xylene, para-xylene and ethylbenzene. 3,636,121, 1-18-72, Cl. 260-674.
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Stingl, Hans Alfred, to Toms River Chemical Corporation. Process for dyeing polyester fibers with nitrodiphenylamine dyestuff. 3,685,957, 8-22-72, Cl. 8-179.000.
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Stipanovic, Joseph G.; and Allan, Earl E., to Westinghouse Air Brake Company. Dust boot for tread brake units. 3,638,503, 2-1-72, Cl. 74-18.
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Stirzenbecher, George H., to Air Plastic Service GmbH. Heating devices. 3,697,728, 10-10-72, Cl. 219-548.
Stites, Francis H., to GTE Information Systems Incorporated. Information processing system. 3,689,898, 9-5-72, Cl. 340-172.500.
Stites, William E. Precision machine tool stop. 3,689,172, 9-5-72, Cl. 408-241.000.
Stivers, David A.; and Guenthner, Richard A., to Minnesota Mining and Manufacturing Company. Perfluoro olefin vinylidene fluoride elastomer product and process. 3,632,788, 1-4-72, Cl. 260-30.8.
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Stix, Thomas H., to United States of America, Atomic Energy Commission. Controlled fusion reactor. 3,663,362, 5-16-72, Cl. 176-4.000.
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Stockebrand, Thomas C., to Digital Equipment Corporation. Position locating system. 3,665,608, 5-30-72, Cl. 33-1.00m.
Stockel, Karl. Fluid cooled thrust nozzle for a rocket. 3,695,515, 10-3-72, Cl. 239-127.100.
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Stockel, Richard Frederick; and Herbes, William Frank, to American Cyanamid Company. Process for tris (hydroxymethy) phosphine by use of high boiling solvent. 3,704,325, 11-28-72, Cl. 260-606.50p.
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Stoddard, Ivan; and Broughton, Terence D., to USM Corporation. Foot form and shoemaking method. 3,705,433, 12-12-72, Cl. 12-133.00r.
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Stoddard, Robert D.; Schumacher, Arnold; Conley, Grant W.; and Williams, Roy M., Jr., to Sanders Associates, Inc. Variable rate display generator. 3,665,454, 5-23-72, Cl. 340-324.

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Stoen, Clifford L. Reversible indexing mechanism. 3,633,442, 1-11-72, Cl. 74-822.
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Stoffel, Robert W., to Allied Chemical Corporation. Fluid time delay automatic retractor. 3,648,946, 3-14-72, Cl. 242-107.4.
Stoffel, Robert W., to Robbins, Jim, Seat Belt Company. Reflex seat belt buckle. 3,649,999, 3-21-72, Cl. 24-230.
Stoffel, Robert W., to Allied Chemical Corporation. Controlled inertia shoulder strap retracting device. 3,679,152, 7-25-72, Cl. 242-107.400.
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Stoker, Carl B., Jr., to Goodyear Tire & Rubber Company, The. Package with transparent window. 3,695,417, 10-3-72, Cl. 206-45.310.
Stoker, Robert J.; and Hanley, James E., II. Cooling tower. 3,648,990, 3-14-72, Cl. 261-109.
Stokes, Charles S.: *See*—
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Stokes, Robert G.: *See*—
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Stokes, William S. Membrane system. 3,663,350, 5-16-72, Cl. 161-151.000.
Stokes, William S. Composite membrane and tile system. 3,666,606, 5-30-72, Cl. 161-37.
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Stoklasek, Antonin. Pneumatic stabilizing system for vehicles. 3,674,282, 7-4-72, Cl. 280-124.00f.
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Stolar, Morris Emmanuel, to Miles Laboratories, Inc. Method of treating acne with benzyl alcohol. 3,663,716, 5-16-72, Cl. 424-343.
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Stoliker, Lawrence F.: *See*—
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Stoll, Christian: *See*—
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Stoll, David. Article and container assembly. 3,651,929, 3-28-72, Cl. 206-45.33.
Stoll, Gottlieb. Portable grinder apparatus. 3,638,362, 2-1-72, Cl. 51-170.
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Stoll, Kurt. Electrical switch apparatus. 3,649,789, 3-14-72, Cl. 200-82.
Stoll, Malcolm H. Gift wrapper. 3,658,240, 4-25-72, Cl. 229-87.
Stoll, Max: *See*—
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Stoller, Arthur Irwin; and Schilp, William Henry, Jr., to RCA Corporation. Heat seal of a glass member to another member. 3,635,510, 1-18-72, Cl. 287-189.365.
Stoller, Arthur Irwin; and Opresko, Stephen Thomas, to RCA Corporation. Method and material for etching semiconductor bodies. 3,677,848, 7-18-72, Cl. 156-17.000.
Stoller, Daniel. Portable ice cube maker. 3,665,728, 5-30-72, Cl. 62-320.
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Stolpa, Gerhard, to Henkel & Cie G.m.b.H. Preparation of facticelike products. 3,676,468, 7-11-72, Cl. 260-403.000.
Stolpen, Beulah Harris. Language teaching apparatus and method. 3,670,427, 6-20-72, Cl. 35-35.00j.
Stolshek, John D., to Republic Corporation. Apparatus for removing insulation from electrical conductors. 3,667,328, 6-6-72, Cl. 81-9.500.
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Stoltz, Andries Johannes, to Monres (Proprietary) Limited. Bricklaying machine. 3,659,392, 5-2-72, Cl. 52-749.
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Stolworthy, Henry Stanford. Fuel control assembly for internal combustion engines having fuel injectors. 3,638,628, 2-1-72, Cl. 123-139.
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Stolzenwald, Ralf J.; and Korner, Peter, to Bosch, Robert, Photokino G.m.b.H. Motion picture camera with dissolving shutter and variable-focus lens. 3,677,625, 7-18-72, Cl. 352-91.000.
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Stolzfus, John E.: *See*—
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Stomper, Joseph M., to Stewart-Warner Corporation. Air motor. 3,699,846, 10-24-72, Cl. 91-346.000.
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Dutkiewicz, Bronislaw K., 3,677,234.
Kuo, Chi Sheng, 3,637,174.
Nelson, Hazen E., 3,632,505.
Noble, John H., 3,667,370.
Stone, Albert M.; and Westerfield, Edwin E., to United States of America, Navy. System for determining azimuth. 3,680,124, 7-25-72, Cl. 343-113.00r.
Stone, Alice B. Multiple nesting hair curler. 3,692,034, 9-19-72, Cl. 132-40.000.
Stone, Beverly I. Visual training machine. 3,648,386, 3-14-72, Cl. 35-8.
Stone, Charles E., to Chaston Medical & Surgical Products, Inc. Surgical pad. 3,698,393, 10-17-72, Cl. 128-296.000.
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Partain, James H.; and Johnson, Richard H., 3,664,573.
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Stone, Ellery W., to Schering Corporation, mesne. Body fluid collector and separator having improved flow rate. 3,682,596, 8-8-72, Cl. 23-253.00r.
Stone, Elmer O.: *See*—
Smithgall, Harry E.; and Stone, Elmer O., 3,694,050.
Stone, Eric William; and White, Wilfred Arthur Stephen, to Imperial Chemical Industries Limited. Treatment of textile materials. 3,663,160, 5-16-72, Cl. 8-137.000.
Stone, Glenn Duane, to Du Pont de Nemours, E. I., and Comany. Imagewise hardening direct writing photodeveloped silver halide emulsions. 3,671,245, 6-20-72, Cl. 96-64.000.
Stone, Guthrie B.; and Holmes, William F., to Springwater Manufacturing Co., Inc. Hydraulically operated metal forming machine. 3,678,724, 7-25-72, Cl. 72-324.000.
Stone, Henry Asaph, III: *See*—
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Stone, Horace Alexander: *See*—
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Stone, J. James, Jr.; Madden, Thomas J., Jr.; Gerlach, Glendon T.; and Keur, Robert I., to Dick, A. B., Company. Image copying apparatus. 3,673,936, 7-4-72, Cl. 95-12.000.
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Findlay, Hugh T.; Fuller, Sterritt R., Jr.; and Stone, Jerry F., 3,682,764.
Stone, John Alexander; Lamster, Hal Bernhard; Baker, Charles L.; and Bakiras, Spiro, to Time Sharing Sciences, Inc. Computer independent concentrators. 3,681,755, 8-1-72, Cl. 340-172.500.
Stone, John T.: *See*—
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Stone, Joseph K.; Beck, Peter J.; and Prince, Edward J., to Kaiser Industries Corporation. Auxiliary composition for steel-making furnaces. 3,666,445, 5-30-72, Cl. 75-94.000.
Stone, Julian, to Bell Telephone Laboratories, Incorporated. Arrangements for detecting distorted optical pulses using a correlation technique. 3,697,757, 10-10-72, Cl. 250-199.000.
Stone, Julian, to Bell Telephone Laboratories, Incorporated. Error reduction in communication systems. 3,699,463, 10-17-72, Cl. 329-145.000.
Stone, Kenneth R.: *See*—
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Stone, Leslie F., to Richardson Company, The. Automatic apparatus for supplying liquids to roller-mills. 3,643,876, 2-22-72, Cl. 241-34.
Stone, Leslie F., to Richardson Company, The. Liquid level controller. 3,667,500, 6-6-72, Cl. 137-386.000.
Stone, Morris Denor, to United Engineering and Foundry Company. Automatic gauge control of strip in rolling mill employing backup roll bending. 3,651,675, 3-28-72, Cl. 72-8.
Stone, Obed W. Machine for killing insects. 3,685,431, 8-22-72, Cl. 99-253.000.

Stone, Orison W. End structure for shadow box display carton. 3,687,279, 829-72, Cl. 206-45.140.
Stone, Ralph K., to United States Envelope Company. Filled and sealed easily opened bag and method of making same. 3,674,195, 7-4-72, Cl. 229-66.000.
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Stone, Richard S.; Lapson, Lawrence B.; and Little, Arthur D., Inc. Interferometric gravity gradiometer incorporating retroreflectors and means to correct for their relative shifting. 3,688,584, 9-5-72, Cl. 73-382.000.
Stone, Richard S., to Little, Arthur D., Inc. Interferometric method and apparatus for measuring gravity gradients. 3,704,626, 12-5-72, Cl. 73-382.000.
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Stone, Thomas W., to Singer Company, The, mesne. Method of fastening coil leads. 3,664,017, 5-23-72, Cl. 29-596.000.
Stone, Virgil D., to Gulf Oil Corporation. Method and apparatus for shutting in offshore wells. 3,666,009, 5-30-72, Cl. 166-.5.
Stone, Webster R., to Esso Production Research Company. Noise reduction on seismic records. 3,638,175, 1-25-72, Cl. 340-15.5.
Stone, William S.: *See—*
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Stoneham, Jeffrey R., to Eastman Kodak Company. Shutter mechanism. 3,672,285, 6-27-72, Cl. 95-59.000.
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Stoner, Eugene Morrison. Linkless cartridge feed system. 3,683,743, 8-15-72, Cl. 89-33.00d.
Stoner, Jack L. Chain lubricating apparatus. 3,684,059, 8-15-72, Cl. 184-15.00b.
Stoner, John H. Low speed lawn edger. 3,653,447, 4-4-72, Cl. 172-16.
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Stonner, Frederik W., to Sterling Drug Inc. 17β-hydroxy-17-ethynyl-4-androsteno-[3,2-c]-2'-(p-fluorophenyl) pyrazole and compositions containing same. 3,657,435, 4-18-72, Cl. 424-241.
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Storb, Uwe; Kaiser, Herbert; and Kaiser, Gunter, to Gebr. Kaiser, Maschinenfabrik. Apparatus for the production of pellets from a melt. 3,702,748, 11-14-72, Cl. 425-6.000.
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Storch, Leonard. Photocomposition error correction system. 3,690,231, 9-12-72, Cl. 95-4.50r.
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Stork, Harald; and Schmidt, Felix Helmut, to Boehringer Mannheim G.m.b.H. Process for the preparation, preservation and transportation of blood and serum samples for use in clinical analyses. 3,645,692, 2-29-72, Cl. 23-230.

Stork, Willi; deceased (by Aufderhaar, Elfriede Storkgeb.; heir), to Windmoller & Holscher. Bag-making machine. 3,643,552, 2-22-72, Cl. 93-27.
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Story, John N.; Mayer, Thomas E.; and Yokota, George, to Worthington Corporation. Valve structure oriented for foolproof uni-directional installation. 3,648,722, 3-14-72, Cl. 137-454.4.
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Story, Raymond E.: *See—*
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Storyk, John M. Suspension system. 3,675,884, 7-11-72, Cl. 248-317.000.
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Stoten, Terence Arthur, to Kent Meters Limited. Metering stations. 3,636,517, 1-18-72, Cl. 340-150.
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Stouffer, Ronald, to Bowles Fluidics Corporation. Fluid driven pneumatic displays. 3,695,607, 10-3-72, Cl. 272-8.00d.
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Stout, Albert W.: *See—*
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Stout, Arthur G., to Web Press Engineering, Inc. Web support nozzles for drier. 3,638,330, 2-1-72, Cl. 34-156.
Stout, Beauford F., to Worth Well Surveys, Inc. Measuring borehole temperatures employing diode junction means. 3,670,567, 6-20-72, Cl. 73-154.000.
Stout, Beauford F.; and Hann, George W., to Worth Well Surveys, Inc. Apparatus employing diode junction means for measuring subterranean temperatures. 3,672,215, 6-27-72, Cl. 73-154.000.
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Stout, Daniel M., to Whitmire Research Laboratories, Inc. Art of controlling houseflies. 3,653,145, 4-4-72, Cl. 43-131.
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Stout, Eldon Charles: *See—*
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Stout, John C., to Irrigation Accessories Co. Flexible seal assembly for spigot and bell conduit joint. 3,656,771, 4-18-72, Cl. 277-207.
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Stout, Robert L., to United States of America, Air Force. Process for producing protective coating of siloxane resin and product produced. 3,637,570, 1-25-72, Cl. 260-33.6.
Stout, Rodney W.: *See—*
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Stovall, William B., to Continental Oil Company. Method for controlling the heating of a metal immersed in a plating solution. 3,652,322, 3-28-72, Cl. 117-93.
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Stover, Arthur H. Oil absorbent slag compositions. 3,701,734, 10-31-72, Cl. 252-88.000.
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Stover, Harris A., to Collins Radio Company. Intermittent phase control loop for swept frequency pulse generator. 3,638,135, 1-25-72, Cl. 331-14.
Stover, Harris A., to Collins Radio Company. Electronic aids for aquanauts. 3,665,380, 5-23-72, Cl. 340-6.
Stover, Raymond W., to Xerox Corporation. Xerographic development. 3,685,488, 8-22-72, Cl. 118-637.000.
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Stowasser, William F.; and Miller, Keith A., to Air Products and Chemicals, Inc. Water cooling method and apparatus employing liquid nitrogen. 3,672,182, 6-27-72, Cl. 62-98.000.
Stowe, Brian, to Lucas, Joseph, (Industries) Limited. Windscreen wiper motors. 3,670,118, 6-13-72, Cl. 200-47.000.
Stowe, Richard W., to Melpar, Inc. Hydrogen-filled gas detector having cathode helix supported by envelope wall. 3,656,019, 4-11-72, Cl. 313-217.

Stowe, Robert A.; and Martin, Irvin J., to Dow Chemical Company, The. Method of dehydrogenating compounds. 3,641,180, 2-8-72, Cl. 260t669.
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Stoy, Erich: *See—*
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Stracener, James R.: *See—*
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Strachan, Robert, to Robertshaw Controls Company. Digital clock structure and parts therefor. 3,690,963, 9-12-72, Cl. 58-125.00c.
Strachan, Ronald A., to Ideal Industries, Inc. Heating arrangement. 3,654,429, 4-4-72, Cl. 219-346.
Strache, Hanns; and Dammermann, Rolf, to Chemische Werke Huels A.G. Recovery of crude cis,trans,transcyclododecatriene-1,5,9 having a low chlorine content. 3,655,794, 4-11-72, Cl. 260-666.
Strack, Donald R., to Protective Treatments, Inc. Self-supporting, nonload-bearing resilient tape sealant. 3,652,380, 3-28-72, Cl. 161-255.
Strack, Hans A.: *See—*
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Strack, Richard R., to American Optical Corporation. Leachable bundle of optical fibers. 3,653,739, 4-4-72, Cl. 350-96.
Strack, Richard R., to American Optical Corporation. Method for producing flexible image transporting fiber optic conduit. 3,669,772, 6-13-72, Cl. 156-15.000.
Strack, Richard R., to American Optical Corporation. Method of fabricating illuminated fiber optics. 3,674,452, 7-4-72, Cl. 65-4.000.
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Straitz, John F., III, to Combustion Unlimited, Incorporated. Vent seals for smoke stack. 3,685,534, 8-22-72, Cl. 137-171.000.
Straitz, John F., III, to Combustion Unlimited, Incorporated. Ground flare. 3,703,349, 11-21-72, Cl. 431-202.000.
Strakhov, Valery Ivanovich: *See—*
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Stram, Michael A., to Sinclair Oil Corporation. Method of producing high strength construction compositions of a mixture of soil, Portland cement and asphalt. 3,645,764, 2-29-72, Cl. 106-96.
Stram, Michael A.; and Zuraw, Charles L., to Atlantic Richfield Company. Water-in-oil emulsion hydraulic fluids. 3,645,903, 2-29-72, Cl. 252-77.
Stram, Michael A., to Atlantic Richfield Company. Lubricant compositions. 3,657,123, 4-18-72, Cl. 252-34.7.
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Strandberg, Charles F., Jr.; Strandberg, Robert C.; and Kennon, Jerry M., to Strandberg Engineering Laboratories, Inc. Time accumulator for accumulating workers' time on the job. 3,665,165, 5-23-72, Cl. 235-92.00t.
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Strandtmann, Maximilian Von; Cohen, Marvin P.; and Shavel, John, Jr., to Warner-Lambert Company. Spiro pyrano [3,2-f] quinoline-3,1 pyrido [3,4,b] indole. 3,704,234, 11-28-72, Cl. 260-288.000.
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Strang, Herman D. Garment hanger lock mechanism. 3,647,072, 3-7-72, Cl. 211-4.
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Strange, Harold O.: *See—*
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Strange, John P.; Nebash, Stanley P.; McInnes, Alexander C.; and McConnaughey, Paul W., to Mine Safety Appliances Company. Filter cassette with removable capsule. 3,686,835, 8-29-72, Cl. 55-270.000.
Strange, Lyle H. Track laying equipment and carrier therefor. 3,680,720, 8-1-72, Cl. 214-38.00r.
Stranger-Johannessen, Per, to A/S Norcem. Method for extracting D-xylose from xylan containing material. 3,687,807, 8-29-72, Cl. 195-11.00.
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Stranicky, Fedor, to AB Svensk Industris Konstruktions-och Beraknings-Kontor SIKOB. Folding carton consisting of a strip of sheet material folded to form a tube and provided with end walls. 3,653,579, 4-4-72, Cl. 229-37.
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Strapp, Joseph P.; and Cornford, Neri E., to United States of America, Navy. Apparatus for determining the presence of a vessel by detecting its wake. 3,706,962, 12-19-72, Cl. 340-4.00r.
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Stratton, Edwin F., to Mercury Processors, Inc. Mercury, vapor type ore reduction apparatus and method. 3,662,998, 5-16-72, Cl. 266-16.
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Straub, Dieter, to Telefunken Patentverwertungsgesellschaft m.b.H. Full adder. 3,679,883, 7-25-72, Cl. 235-175.000.
Straub, E. R. Carl. Reed switch. 3,689,859, 9-5-72, Cl. 335-206.000.
Straub, Paul J., to Mallory, P. R., & Co., Inc. Timer with internal stop mechanism comprising annular ring structure interfitting complementary housing members. 3,699,277, 10-17-72, Cl. 200-38.00r.
Straub, Richard K., to Farbenfabriken Bayer Aktiengesellschaft. Cutting torch tip guide. 3,698,701, 10-17-72, Cl. 266-23.00m.
Straubel, Max, to Zundapp-Werke Gesellschaft mit beschrankter Haftung, Firma. Internal combustion engine with controlled lubrication supply. 3,648,677, 3-14-72, Cl. 123-196.
Straubing, Irlbach B.: *See—*
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Strauch, Heinrich. Inductive transducers. 3,634,799, 1-11-72, Cl. 336-92.
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Straughn, Robert O.; and Reinhart, Richard D., to General Mills, Inc. Process for producing an onion flavored snack. 3,653,916, 4-4-72, Cl. 99-8.1.
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Straus, Alan E., to Chevron Research Company. Water-containing dry cleaning compositions. 3,655,572, 4-11-72, Cl. 252-171.
Straus, Albert E. Suture cutter. 3,659,343, 5-2-72, Cl. 30-124.
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Strauss, Cyrus M.; and Bauer, John M., to Allied Chemical Corporation. Etching solutions. 3,650,960, 3-21-72, Cl. 252-79.3.
Strauss, Edgar H., to Ruti Machinery Works, Ltd. Insertion element for inserting weft threads on a loom. 3,640,313, 2-8-72, Cl. 139-12.
Strauss, Edgar H., to Ruti Machinery Works, Ltd.; formerly Caspar Honegger. Shed-forming apparatus on a loom. 3,640,314, 2-8-72, Cl. 139-12.
Strauss, Edgar H., to Ruti Machinery Works, Ltd.; formerly Caspar Honegger. Device for producing thread windings on a loom. 3,672,404, 6-27-72, Cl. 139-12.000.
Strauss, Edgar H., to Ruti Machinery Works, Ltd. Reed tooth arrangement on a wave-type loom. 3,678,966, 7-25-72, Cl. 139-12.000.
Strauss, Edgar H. Guide arrangement for weft thread inserting elements. 3,683,969, 8-15-72, Cl. 139-12.000.
Strauss, Edgar H., to Ruti Machinery Works, Ltd.; formerly Caspar Honegger. Drive shaft for a wave-type loom. 3,687,171, 8-29-72, Cl. 139-12.000.
Strauss, Edgar H., to Ruti Machinery Works, Ltd. Arrangement of reed teeth on a wave-type loom. 3,688,806, 9-5-72, Cl. 139-12.000.

Strauss, Erwin S. Floating platform. 3,673,975, 7-4-72, Cl. 114-43.500.
Strauss, Georg: *See—*
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Strauss, George M., to Kollsman Instrument Corporation. Parameter read-out systems for pressure-frequency transducers. 3,668,930, 6-13-72, Cl. 73-386.000.
Strauss, Gunther; Schneider, Klaus; and Jacquemin, Werner, to Chemische Werke Huls Aktiengesellschaft. Production of alcohols. 3,651,153, 3-21-72, Cl. 260-617.
Strauss, Herbert S.: *See—*
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Strauss, Herbert S., to Duro-Test Corporation. Seal structures for electric discharge lamps. 3,675,068, 7-4-72, Cl. 313-217.000.
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Strauss, Karl-Peter, to Rollei-Werke Franke & Heidecke. Capacitor overcharge protection circuit. 3,681,672, 8-1-72, Cl. 320-1.00.
Strauss, Levi, & Co.: *See—*
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Strauss, Robert E.: *See—*
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Shaw, Charles H.; and Strauss, Robert G., 3,635,632.
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Strawn, Charles F.; and Donovan, John C., to Johnson Service Company. Apparatus for measuring small changes in condition sensitive capacitance transducers. 3,636,444, 1-18-72, Cl. 324-61.
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Streb, Alan J.; Stivers, George S.; and Kelly, Howard R., to Teledyne, Inc., mesne. High versatile radioisotope thermoelectric generator. 3,668,015, 6-6-72, Cl. 136-202.
Streb, Ernest L., to Frontier Industries, Inc. Apparatus for cradling tanks. 3,650,501, 3-21-72, Cl. 248-146.
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Strebel, Albert; and Habegger, Oskar, to Maschinenfabrik Burckhardt AG. Crosshead arrangement for the drive mechanism of high-pressure compressors and pumps. 3,657,972, 4-25-72, Cl. 92-128.
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Strebig, Richard W. Automatic electric jig-fishing device. 3,691,668, 9-19-72, Cl. 43-19.200.
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Streck, Clemens, to GAF Corporation. Direct dye, alkanolamine or morpholine, and neutral salt concentrate and milling preparation thereof. 3,679,353, 7-25-72, Cl. 8-79.000.
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Streetman, Foy J.; and Armitstead, John D. Gouger attachment for conventional electrode holder. 3,654,421, 4-4-72, Cl. 219-70.
Streets, William L.; and Glenn, Charles O., to Phillips Petroleum Company. Dewaxing of waxy petroleum distillates. 3,682,812, 8-8-72, Cl. 208-38.0900.
Strege, Robert J., Sr., to Sperry Rand Corporation. Monitor for servo systems. 3,634,746, 1-11-72, Cl. 318-565.
Strehle, Horst, to Kombinat Veb Pentacon Dresden Kamera- und Kinowerke. Objective lens adaptor. 3,641,892, 2-15-72, Cl. 95-10.
Strehler, Erich; Kaumle, Fritz; and Rolf, Stuttgart, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Compound crankshaft with a drive-gear wheel for multi-cylinder piston engines, especially internal combustion engines. 3,686,971, 8-29-72, Cl. 74-597.000.
Strehler, Richard; Eichinger, Hans; and Hubl, Julius, to Hurth, Carl, Maschinen- und Zahnradfabrik. Shiftable friction clutch. 3,703,226, 11-21-72, Cl. 192-48.910.
Strehlke, Gunter; and Fuchs, Gundolf, to Deutsche Texaco Aktiengesellschaft. Process for production of 1,3-dimethyl-5-isopropylbenzene. 3,636,184, 1-18-72, Cl. 260-672.
Strehlow, Wolfgang H. Epitaxial film process and products thereof. 3,692,572, 9-19-72, Cl. 117-201.000.
Streich, Martin, to Messer Griesheim GmbH. Process for separating a liquid gas mixture containing methane. 3,656,312, 4-18-72, Cl. 62-28.
Streich, Martin, to Linde Aktiengesellschaft. Prefractionation with subsequent recombination of feed in double column rectifier. 3,683,634, 8-15-72, Cl. 62-29.000.
Streich, Martin; and Voigt, Hartmut, to Messer Griesheim GmbH. Production of nitrogen and argon-free oxygen. 3,688,513, 9-5-72, Cl. 62-22.000.
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Streicher, Heinz; Riek, Siegfried; and Leutwein, Manfred, to Eastman Kodak Company. Reader for information carriers in sheet form. 3,645,612, 2-29-72, Cl. 353-27.
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Strelets, Khaim Lipovich; Chesnokov, Alexandr Sergeevich; Devyatkin, Vladimir Nikolaevich; Tatakin, Alexandr Nikolaevich; Krasikov, Evsei Dmitrievich; Leonova, Ljudmila Sergeevna; Medvetskaya, Galina Arkadievna; and Nechaeva, Tatyana Georgievna. Fused saltelectrolyzer for magnesium production. 3,676,323, 7-11-72, Cl. 204-244.000.
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Streng, Ludwig. Device for measuring the thickness of metalic layers utilizing beta ray backscattering. 3,639,763, 2-1-72, Cl. 250-83.3.
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Strenglein, Harry F., to Sperry Rand Corporation. High frequency test device. 3,683,381, 8-8-72, Cl. 343-17.700.
Strenglein, Harry F., to Sperry Rand Corporation. Vehicle tire pressure monitor system. 3,694,803, 9-26-72, Cl. 340-58.000.
Streschnak, Benno; and Doll, Willy, to Haarmann & Reimer Gesellschaft mit beschrankter Haftung. Ultraviolet radiation protection composition, containing a mixture of cinnamic acid esters. 3,644,614, 2-22-72, Cl. 424-60.
Stresemann, Siegfried; Langlit, Karl-Heinz; and Mahringer, Karl-Heinz, to Demag Aktiengesellschaft. Support arrangement for metallurgical vessel such as steel mill converter. 3,652,072, 3-28-72, Cl. 266-36.
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Striebel, Wilhelm K.; and Loch, Werner, to Dyckerhoff Zementwerke Aktiengesellschaft. Water-repellent cement and soils. 3,656,979, 4-18-72, Cl. 106-95.
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Strier, Murray P.; and Smatko, Joseph S., to McDonnell Douglas Corporation. Polytetrafluoroethylene battery separator and method for producing same. 3,661,645, 5-9-72, Cl. 136-20.
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Strilko, Peter S., to Du Pont de Nemours, E. I., and Company. Deactivating dual response photosensitive compositions with visible and ultraviolet light. 3,666,466, 5-30-72, Cl. 96-48.
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Stuart, John W., to United States of America, National Aeronautics and Space Administration. Diffuse reflective coating. 3,702,775, 11-14-72, Cl. 117-35.00r.

Stuart, Robert B., to Penn Yan Boats Incorporated. Exhaust system for tunnel stern boat. 3,659,547, 5-2-72, Cl. 115-34.

Stuart, Robert L.: *See—*
Chisholm, Eugene H.; and Stuart, Robert L., 3,698,740.

Stuart, Robert W. Rotary drill assembly. 3,640,352, 2-8-72, Cl. 175-107.

Stuart, Ronald Stiles; and Wasson, Burton K., to Frosst, Charles E., & Co. 1-Morpholino phenoxy-3-alkylamino-2-propanols. 3,686,176, 8-22-72, Cl. 260-247.50r.

Stubbe, Gilbert Jules Ghislain: *See—*
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Stubbe Maschinenfabrik GmbH: *See—*
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Stubben, Werner Johannes Karl, to Stubben, Joh's, OHG. Riding saddle and attachment means. 3,641,739, 2-15-72, Cl. 54-46.

Stubblefield, Charles David; and Wells, John Lee, to Huber, J. M., Corporation. Carbon black burner construction. 3,650,475, 3-21-72, Cl. 239-419.3.

Stubbmann, Albert, to Kohner Bros., Inc. Toy with pseudo automobile controls and pseudo automobile windshield and windshield wiper mechanism. 3,659,375, 5-2-72, Cl. 46-1.

Stubbmann, Albert, to Kohner Bros., Inc. Escapement mechanism. 3,698,252, 10-17-72, Cl. 74-1.500.

Stubbs, Edward L.: *See—*
Loeffler, Robert W.; Loeffler, Walter W., Jr.; and Stubbs, Edward L., 3,689,311.

Stubbs, Robert C.: *See—*
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Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,657,199.
Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,699,080.
Stuberg, Robert O. Process for sealing a top-opening carton. 3,662,515, 5-16-72, Cl. 53-39.
Stubiger, Ernst: *See—*
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Stubstad, James A.: *See—*
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Stuby, Kenneth P., to International Business Machines Corporation. Hour-glass shaped conductive connection through semiconductor structures. 3,648,131, 3-7-72, Cl. 317-235.
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Stuchlik, Rene, to Societe Rhodiaceta. Spinneret unit and method for the spinning of chemical filaments. 3,634,576, 1-11-72, Cl. 264-176.
Stuck, Carl G.; and Wilkes, Arthur L., to American Data Systems Inc. Data terminal system. 3,701,856, 10-31-72, Cl. 179-26.00a.
Stuck, Klaus, to Ehrenreich, A., & Cie. Ball joint with cover plate for vehicles linkages. 3,677,586, 7-18-72, Cl. 287-87.000.
Stuck, Klaus, to Ehrenreich, A., & Cie. Ball joint for omni-directional motion attachments. 3,695,650, 10-3-72, Cl. 287-88.000.
Stuck, Klaus, to Ehrenreich, A., & Cie. Ball joint with cover plate. 3,695,651, 10-3-72, Cl. 287-87.000.
Stuckert, Paul E., to International Business Machines Corporation. Geometrically dependent distributed section transmission line attenuator. 3,634,789, 1-11-72, Cl. 333-81.
Stuckey, Ronald L.: *See—*
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Stucky, Duane L.; Donaldson, Richard G.; and Alexander, Allen D., to Industrial Nucleonics Corporation. Measuring system support. 3,668,397, 6-6-72, Cl. 250-83.30d.
Studebaker, James B.: *See—*
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Studenick, David K.; Tyler, Allen L.; and Squillari, Walter, to United States of America, National Aeronautics and Space Administration. System for stabilizing torque between a balloon and gondola. 3,698,667, 10-17-72, Cl. 244-32.000.
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Studer, Hans-Luzius; Petri, Eckart; Wurmstedt, Karl; and Haas, Jan Tomas, to Hamburger Flugzeugbau GmbH. Aircraft fan with outflow deflectors. 3,704,828, 12-5-72, Cl. 239-265.190.
Studer, Jean-Fred: *See—*
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Studer, Philip A., to United States of America, National Aeronautics and Space Administration. Electric motive machine including magnetic bearing. 3,694,041, 9-26-72, Cl. 308-10.000.
Studer, Victor Vernon: *See—*
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Wilke, Gunther; Heimbach, Paul; and Delliehausen, Claus, 3,660,440.
Studinka, Josef; and Gabler, Rudolf, to General Electric Company. Linear aromatic copolythioethers. 3,706,702, 12-19-72, Cl. 260-47.00r.
Studley, David K., to Quantor Corporation. Microfilm camera. 3,677,159, 7-18-72, Cl. 95-31.0el.
Studli, Hans. Worm housing for double worm press. 3,696,736, 10-10-72, Cl. 100-146.000.
Studnick, William R., to Western Electric Company, Incorporated. Method of and radiant energy transmissive member for reflow soldering. 3,657,508, 4-18-72, Cl. 219-85.
Studtmann, George H.: *See—*
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Studtmann, George H., to Borg-Warner Corporation. Static transfer switching system. 3,634,701, 1-11-72, Cl. 307-269.
Studtmann, George H., to Borg-Warner Corporation. Thyristor with added gate and fast turn-off circuit. 3,638,042, 1-25-72, Cl. 307-252.
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Stuebinger, Adolf; Mueller, Herbert; and Overwien, Hermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of isoprene. 3,657,376, 4-18-72, Cl. 260-681.
Stuemky, Robert E., to Gates Rubber Company, The. Continuously variable friction gear. 3,677,109, 7-18-72, Cl. 74-796.000.
Stuetz, Dagobert E.: *See—*
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Stuetz, Dagobert E., to Celanese Corporation. Stabilization procedure and apparatus for polymeric fibrous materials. 3,632,092, 1-4-72, Cl. 263-3.
Stuetz, Dagobert E.; Belohlav, Leo R.; and Reader, Arthur M., to Celanese Corporation. Continuous production of uniform graphite fibers. 3,634,035, 1-11-72, Cl. 23-209.1.
Stuetz, Dagobert E., to Celanese Corporation. Direct production of graphite fibrous materials from preoxidized acrylic fibrous materials. 3,656,903, 4-18-72, Cl. 23-209.1.
Stuetz, Dagobert E., to Celanese Corporation. Thermal stabilization of addition polymers. 3,671,488, 6-20-72, Cl. 260-45.70r.
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Stuhlmann, Hans; and Stuhlmann, Werner, to Battenfeld Maschinenfabriken GmbH., Firma, mesne. Apparatus for treatment of granulated goods. 3,678,597, 7-25-72, Cl. 34-48.000.
Stuhlmann, Werner: *See—*
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Stull, James T., to United States Steel Corporation. Guide mechanism for oscillating continuous casting mold. 3,662,813, 5-16-72, Cl. 164-273.
Stull, John William: *See—*
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Stuller, Howard E.; and Baker, Jerry D., to Clark Equipment Company. Hydrostatic vehicle-4 wheel drive, 4 wheel steering. 3,666,034, 5-30-72, Cl. 180-6.48.
Stults, Richard L.; and Curry, Robert W., to Hughes Aircraft Company. Surveillance and intrustio detecting system. 3,641,266, 2-8-72, Cl. 178-6.8.
Stum, Linly R. Reel for fence wire, etc. 3,650,492, 3-21-72, Cl. 242-86.7.
Stummeyer, Herbert: *See—*
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Stump, Eugen; and Frankle, Gerhard, to Suddeutsche Kuhlerfabrik Julius Fr. Behr, Firma. Extraneous heater primarily for motor vehicles operated with liquid fuel, particularly gasoline. 3,648,681, 3-14-72, Cl. 126-110.
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Stump, Harry C.; and Ford, Paul L., to Armour and Company. Process for preparing a sausage meat emulsion. 3,649,301, 3-14-72, Cl. 99-109.
Stump, Harry C.; and Ford, Paul L., to Armour and Company. Preparation of sausage meat emulsion. 3,650,767, 3-21-72, Cl. 99-109.
Stump, Paul W., to Clevepak Corporation. Tubular member. 3,648,920, 3-14-72, Cl. 229-49.
Stump, Paul W.; and Bierstedt, Heinz J., to Clevepak Corporation. Method and apparatus for convolutely winding tubes of irregular shapes. 3,665,818, 5-30-72, Cl. 93-81.

Stump, Walter: *See—*
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Carder, Frank B.; Stumpe, Warren R.; Frassetto, Bruno S.; and Bell, Charles H., 3,655,076.
Stumpf, Gunter. Cutting machine for fabrics and thermoplastics. 3,631,751, 1-4-72, Cl. 83-171.
Stumpf, Gunter. Follower appliance for fabric folding machines. 3,674,253, 7-4-72, Cl. 270-31.000.
Stumpf, Gunter. Apparatus for forming stacks of cloth webs which are cut to length. 3,701,299, 10-31-72, Cl. 83-72.000.
Stumpf, Marvin D.: *See—*
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Stumpf, Marvin D.; and Koenig, Elmer A. Breech loaded syringe and method of breech loading same. 3,705,582, 12-12-72, Cl. 128-218.00p.
Stumpf, Paul R., to Kimberly-Clark Corporation. Device for filling and sealing flexible containers. 3,638,253, 2-1-72, Cl. 5-337.
Stumpf, Robert J.: *See—*
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Stumpf, Robert J., to Kimberly-Clark Corporation. Disposable diaper with improved liner material. 3,665,921, 5-30-72, Cl. 128-287.
Stumpf, Robert J., to Kimberly-Clark Corporation. High bulk corrugated nonwoven fabric. 3,668,054, 6-6-72, Cl. 161-128.000.
Stumpf, Robert J., to Kimberly-Clark Corporation. Method of manufacturing an elastic nonwoven fabric. 3,687,754, 8-29-72, Cl. 156-72.000.
Stumpf, Robert J.; and Mattes, William J., to Kimberly-Clark Corporation. Composite high-loft material for blankets. 3,687,796, 8-29-72, Cl. 161-67.000.
Stumpf, Robert J., to Kimberly-Clark Corporation. Separable clasp containing high-loft, non woven fabric. 3,694,867, 10-3-72, Cl. 24-204.000.
Stumpf, Robert J., to Kimberly-Clark Corporation. Method of producing high-loft, nonwoven paneling material and covering. 3,705,063, 12-5-72, Cl. 156-72.000.
Stumpf, Robert J., to Kimberly-Clark Corporation. Method of producing crushed high-loft, nonwoven material, including card and breaker frame blending. 3,705,065, 12-5-72, Cl. 156-72.000.
Stumpfig, Friedrich. Method and apparatus for adapting engine to stratified charge operation. 3,661,125, 5-9-72, Cl. 123-32.0st.
Stumph, Stephen L.: *See—*
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Stumphauzer, William C.: *See—*
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Stumphauzer, William C.; Hogstrom, Edwin F.; Nord, Eric T.; Schneider, Richard E.; and Rood, Alvin A., to Nordson Corporation. Method of spraying closed end cans. 3,697,313, 10-10-72, Cl. 117-96.000.
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Stuner, John P. Mechanics magnetic glove. 3,636,568, 1-25-72, Cl. 2-161.
Stunkard, Gerald A. Self centering pipe working machine. 3,650,514, 3-21-72, Cl. 266-23.
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Sturdivan, Rex E., to Zinsco Electrical Products. Electrical power outlet for trailer camp sites and the like. 3,691,288, 9-12-72, Cl. 174-38.000.
Sturdy, Clifford, to Davy and United Engineering Company Limited. Ingot manipulator for a rolling mill. 3,675,789, 7-11-72, Cl. 214-1.0qg.
Sturel, Bernard: *See—*
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Sturgeon, Edward G., to Syncro Corporation. Brake controller. 3,704,042, 11-28-72, Cl. 303-3.000.
Sturgeon, George; and Jackson, George, to British Iron and Steel Research Association, The. Apparatus for production of metal strip from metal powder. 3,674,389, 7-4-72, Cl. 425-79.000.
Sturgeon, George M.; and Sykes, Geoffrey M. H., to British Iron and Steel Research Association, The. Rolling strip from powder. 3,632,244, 1-4-72, Cl. 425-79.
Sturgeon, George Mc Hardy; and Sheffield, Jackson George, to British Iron and Steel Research Association, The. Production of metal strip from metal powder. 3,674,390, 7-4-72, Cl. 425-79.000.
Sturgeon, Robert G., to Barnes-Hind Pharmaceuticals, Inc., mesne. Contact lens case. 3,695,280, 10-3-72, Cl. 134-166.00r.
Sturgeon, Ronald F. Multiple-axial-pin tumbler lock. 3,681,955, 8-8-72, Cl. 70-363.000.
Sturgeon, Ronald F. Multiple-axial-pin tumbler lock. 3,681,957, 8-8-72, Cl. 70-411.000.
Sturges Company, The: *See—*
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Sturges, Hiram A. Single cylinder hydraulic stabilizer for steering. 3,658,027, 4-25-72, Cl. 115-18.
Sturges, James R.: *See—*
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Sturges, Nigel; and Nutton, Leonard Charles, to Sewprima Limited. Neddle positioning attachment for a sewing machine. 3,636,901, 1-25-72, Cl. 112-219.
Sturgess, Geoffrey John; Hoffman, Jacob Sherman; Vdoviak, John William; and Hirschkron, Robert, to General Electric Company. Air blast fuel atomizer. 3,703,259, 11-21-72, Cl. 239-400.000.
Sturgis, Clifford M. Self-contained steam heating unit. 3,640,456, 2-8-72, Cl. 237-7.
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Sturhan, Klaus, to Gebr. Isringhausen, Firma. Seat construction. 3,679,166, 7-25-72, Cl. 248-399.000.
Sturlason, Leif Viggo: *See—*
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Sturm, Bernard J.: *See—*
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Sturm, Carl-Heinz; and Weber, Willi, to Aktiengesellschaft Brown, Boveri & Cie. Heat tube. 3,688,838, 9-5-72, Cl. 165-96.000.
Sturm, Edward L., to Eastman Kodak Company. Control, signal and actuating mechanism for use with photoflash lamp units having pre-energized strikers. 3,677,157, 7-18-72, Cl. 95-11.50r.
Sturm, Elmar; and Vogel, Christian, to Ciba-Geigy Corporation. Thiocarboxylic acid esters of 8-azabicyclo[3.2.1] octanes and 9-azabicyclo[3.3.1]nonanes. 3,661,916, 5-9-72, Cl. 260-292.
Sturm, Elmar; and Vogel, Christian. N-carbonyl derivatives of azabicyclooctanes. 3,705,165, 12-5-72, Cl. 260-293.540.
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Sturm, Hans Juergen; Mayer, Kurt; Kilpper, Gerhard; and Armbrust, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Disperse monoazo dyes of the 5-aminopyrazole series. 3,639,387, 2-1-72, Cl. 260-163.
Sturm, Hans Juergen, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of cyanoacetaldehyde. 3,647,854, 3-7-72, Cl. 260-465.1.
Sturm, Hans Juergen; and Goerth, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2,4-dihydroxyquinolines. 3,652,571, 3-28-72, Cl. 260-289.
Sturm, Hans Juergen; Armbrust, Herbert; Nienburg, Hans; and Eisfeld, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of O-benzoylbenzoic acid. 3,655,741, 4-11-72, Cl. 260-517.
Sturm, Hans Juergen; Armbrust, Herbert; Eisert, Manfred; and Schecker, Hans-Georg, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of o-benzoylbenzoic acid. 3,658,893, 4-25-72, Cl. 260-517.
Sturm, Hans Juergen; and Armbrust, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 5-aminopyrazoles substituted in the 1-position. 3,682,913, 8-8-72, Cl. 260-256.40n.
Sturm, Hans-Juergen; and Armbrust, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2-aryl-3-aminoindazoles. 3,651,081, 3-21-72, Cl. 260-310.
Sturm, Hans-Juergen; and Goerth, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2,4-dihydroxyquinoline. 3,682,928, 8-8-72, Cl. 260-283.0sy.
Sturm, Hans-Jurgen; and Mayer, Kurt, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Disperse water-insoluble benzeneazo-3-acetyl-or 3-propionyl-aninodiphenylamine dyestuffs. 3,640,996, 2-8-72, Cl. 260-207.1.
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Sturman, Oded E., to Sturman, Oded E. Self-latching solenoid actuator. 3,683,239, 8-8-72, Cl. 317-150.000.
Sturmer, Hans, to Bosch, Robert, G.m.b.H. Sealing device for pistons of rotary piston machines. 3,655,304, 4-11-72, Cl. 418-124.
Sturmer, Hans, to Bosch, Robert, G.m.b.H. Transmission arrangement with basic transmission mechanism. 3,691,861, 9-19-72, Cl. 74-330.000.
Sturmer, Hans, to Bosch, Robert, G.m.b.H. Fuel injection valve. 3,702,683, 11-14-72, Cl. 239-585.000.
Sturmo, Giuseppe; and Maran, Mario, to F.A.V. S.r.L. Automobile tester. 3,690,165, 9-12-72, Cl. 73-117.000.
Sturt, Alan Charles, to BP Chemicals Limited. Polymerisation process. 3,663,655, 5-16-72, Cl. 260-875.000.
Sturt, Alan Charles, to BP Chemicals Limited. Emulsion-suspension graft copolymerization process. 3,663,657, 5-16-72, Cl. 260-878.
Sturtevant Engineering Co. Ltd.: *See—*
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Sturwold, Robert J.: *See—*
Boylan, Jack B.; and Sturwold, Robert J., 3,679,617.
Sharkey, Hubert Joseph; and Sturwold, Robert J., 3,700,618.
Sturzinger, Oskar, to Anstalt Europaische Handelsgesellschaft. Synchronizing devices. 3,702,900, 11-14-72, Cl. 178-53.100.
Sturzinger, Oskar Edwin. System for ascertaining the accumulation of pulverulent, granular or flaky bulk goods. 3,647,301, 3-7-72, Cl. 356-103.
Stutz, Herbert D. Camper anchoring device. 3,649,065, 3-14-72, Cl. 296-23.
Stutz, Paul: *See—*
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Stutz, Peter: *See—*
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Stutzman, Guy R.; and Comstock, Allan J., to International Telephone and Telegraph Corporation. Electron multiplier having dynode modules. 3,684,910, 8-15-72, Cl. 313-105.000.
Stuyvenber, Franciscus D., to Hydraudyne N.V. Hydraulic cylinder. 3,683,754, 8-15-72, Cl. 92-165.000.
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Sugioka, Yasuji, to Taiyo Seiki Co., Ltd. Apparatus for applying a slip of marble paper onto the bound edge of piled sheets of paper. 3,689,352, 9-5-72, Cl. 156-556.000.
Sugisawa, Hiroshi, to Canadian Patents and Development Limited. Preservation of volatile foodstuff flavours. 3,695,896, 10-3-72, Cl. 99-140.00r.
Sugita, Keiji: *See—*
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Sugiura, Kaku, to Nippon Electronics Co., Ltd. Automatic alarm system. 3,706,961, 12-19-72, Cl. 340-1.00r.
Sugiura, Naokatsu, to Sansui Electric Co., Ltd. Automatic tape driving system for tape recorders using a low frequency signal with a non-signal for reversing. 3,702,908, 11-14-72, Cl. 179-100.20s.
Sugiura, Shotaro: *See—*
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Sugiura, Shotaro; and Ishii, Takami, to Ube Industries, Ltd. Process for the preparation of high molecular weight polyoxy-methylene. 3,639,347, 2-1-72, Cl. 260-64.

Sugiura, Shotaro; Ueno, Haruo; Ishikawa, Hideo; Yano, Takefumi; and Shimamura, Tuneo, to UBE Industries, Ltd. Process for producing highly crystalline polyolefins. 3,644,320, 2-22-72, Cl. 260-93.7.

Sugiura, Susumu: *See—*
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Sugiyama, Keiji, to Pioneer Electronic Corporation. Method of manufacturing a magnetic head. 3,686,751, 8-29-72, Cl. 29-603.000.

Sugiyama, Kimroku: *See—*
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Sugiyama, Mineo, to Nippon Electric Company, Limited. Microwave relay equipment. 3,633,103, 1-4-72, Cl. 325-11.

Sugiyama, Mitsunori: *See—*
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Sugiyama, Takashi; Kurata, Satoshi; and Nakane, Hisao, to Yokogawa Electric Works, Ltd. Ratio measuring apparatus. 3,652,930, 3-28-72, Cl. 324-57.

Sugiyama, Yoshihiko: *See—*
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Suh, John T., to Colgate-Palmolive Company. Sulfonamidoalkyl amino acids. 3,632,628, 1-4-72, Cl. 260-470.

Suh, John T., to Colgate-Palmolive Company. Pharmaceutical compositions and methods containing 1,2,3,4-tetrahydrobenzothieno [2,3-c] pyridines. 3,636,218, 1-18-72, Cl. 424-263.

Suh, John T., to Colgate-Palmolive Company. Derivatives of 1,2,3,4-tetrahydrobenzothieno [2,3-c]pyridines. 3,651,068, 3-21-72, Cl. 260-294.8.

Suh, John T.; and Schnettler, Richard A., to Colgate-Palmolive Company. 13-Substituted dibenzo[b,g]quinolizines. 3,654,284, 4-4-72, Cl. 260-289.

Suh, John T.; and Schnettler, Richard A., to Colgate-Palmolive Company. 1,2-Disubstituted benzo [b] quinolizines. 3,655,671, 4-11-72, Cl. 260-288.

Suh, John T.; and Schnettler, Richard A., to Colgate-Palmolive Company. 1-Hydroxybenzo[6]quinolizine derivatives. 3,661,915, 5-9-72, Cl. 260-289.

Suh, John T., to Colgate-Palmolive Company. Pharmaceutical compositions containing amides of β-(3-thianaphthenyl) ethylamines. 3,663,702, 5-16-72, Cl. 424-275.

Suh, John T.; and Schnettler, Richard A., to Colgate-Palmolive Company. 2-Hydroxybenzo [b]quinolizines. 3,665,006, 5-23-72, Cl. 260-289.

Suh, John T., to Colgate-Palmolive Company. 1H-3-(Substituted aminoalkylidene) cyclopenta[β] thianaphthenes. 3,682,967, 8-8-72, Cl. 260-330.500.

Suh, John T.; and Bare, Thomas M., to Colgate-Palmolive Company. 1-(4-Hydroxy-3-(hydroxymethyl)-phenyl) -1-hydroxy-2-aralkylaminoethanes. 3,700,692, 10-24-72, Cl. 260-340.500.

Suh, John T., to Colgate-Palmolive Company. Certain 2-amidino-1,2,3-4-tetrahydrobenzothiene [2,3-c]azepines. 3,704,237, 11-28-72, Cl. 260-294.80b.

Suhami, Albert; Sabbah, Benjamin; Inbar, Dan; Yarom, Artzi; and Ben-Zeev, Dan, to Elscint Ltd. Phototubes for scintillation detector. 3,701,901, 10-31-72, Cl. 250-71.50r.

Suhara, Toshiro; and Fukuda, Shigehisa. Electric explosion metal spraying for substrate. 3,639,150, 2-1-72, Cl. 117-93.

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Suhs, Gerhard W., to Combustion Engineering, Inc. Flexible seal between roof and sidewalls of a steam generator. 3,645,238, 2-29-72, Cl. 122-235.

Suisher, Jno H., & Son: *See—*
Sundberg, Robert C.; Carlson, William; and Wood, Lampkin H., 3,636,958.

Suisse, Georges. Projection gun. 3,682,384, 8-8-72, Cl. 239-15.000.

Suita, Shigeo, to Mizoguchi, Ryuichi and Kamiya, Masataka. Automatic door opening and closing means. 3,660,939, 5-9-72, Cl. 49-263.

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Sulinski, Harry V., to United States of America, Army. Shell mold composition. 3,656,983, 4-18-72, Cl. 106-38.3.
Sulkowki, Theodore S.; and Mascitti, Albert A., to American Home Products Corporation. α-Imino-2-toluic acids. 3,647,865, 3-7-72, Cl. 260-518.
Sulkowski, Theodore S.; and Mascitti, Albert A., to American Home Products Corporation. α-Aryl-3-(2-imidazolin-2-yl)-2-naphthalenemethanols. 3,649,640, 3-14-72, Cl. 260-309.6.
Sulkowski, Theodore S.; and Childress, Scott J., to American Home Products Corporation. Process for preparing 9b-substituted-1-sulfonyl-1,2,3,9b-tetrahydro-5H-imidazo [2,1-a] isoindol-5-ones. 3,657,221, 4-18-72, Cl. 260-309.7.
Sulkowski, Theodore S., to American Home Products Corporation. Process for the preparation of tetrahydropyrimidoisoindolols. 3,657,240, 4-18-72, Cl. 260-251.
Sulkowski, Theodore S., to American Home Products Corporation. Benzodiazocines. 3,663,532, 5-16-72, Cl. 260-239.0bd.
Sullifoam, Inc.: *See—*
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Sullivan, Alfred Bay; and Campbell, Robert Henry, to Monsanto Company. 2-Morpholinosulfinyl benzothiazoles. 3,635,918, 1-18-72, Cl. 260-79.5.
Sullivan, Alfred Bay, to Monsanto Company. Method for preparation of organic polysulfides. 3,705,923, 12-12-72, Cl. 260-608.000.
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Sullivan, Charles E., 30% to Spain, Byron and 65% to Holman, Robert S. Fluid flow control device. 3,685,538, 8-22-72, Cl. 137-504.000.
Sullivan, Charles I.; and Cahill, Richard H., to Staley, A. E., Manufacturing Company. Polymer composition. 3,697,466, 10-10-72, Cl. 260-29.6.
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Sullivan, David Lee, to Du Pont de Nemours, E. I., and Company. Trimerization of butadiene. 3,655,795, 4-11-72, Cl. 260-666.
Sullivan, Dean R., to United States of America, Navy. Automatic threshold detector with selectable percentage of threshold crossings. 3,665,326, 5-23-72, Cl. 328-151.
Sullivan, Donald B.: *See—*
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Sullivan, Edward F., 1/2 to B & K Tool & Die Corporation. Method and apparatus for machining rings. 3,660,945, 5-9-72, Cl. 51-73.
Sullivan, Edward F., to Crown Cork & Seal Company, Inc. Container closing apparatus and method. 3,660,963, 5-9-72, Cl. 53-42.
Sullivan, Edward F. High compression piston ring and piston assembly. 3,687,018, 8-29-72, Cl. 92-169.000.
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Sullivan, Frank, to GAF Corporation. Secondary oil recovery process. 3,637,494, 1-25-72, Cl. 252-8.55.
Sullivan, Frank Aloysius Vincent; and Dejneka, Tamara, to American Cyanamid Company. Antiozonants for rubber. 3,634,313, 1-11-72, Cl. 260-45.8.
Sullivan, Gene F., to Brown, Howard W. Portable hoisting unit. 3,671,015, 6-20-72, Cl. 254-142.000.
Sullivan, Harold G., to United States of America, Air Force. Automatic channel equalization apparatus with data equalization mode adaptor. 3,671,672, 6-20-72, Cl. 178-69.00a.
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Sullivan, John Anthony, to Simon, Henry, Limited. Container machinery. 3,638,538, 2-1-72, Cl. 93-93.
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Sullivan, John P., Jr., to Itek Corporation. Gelable and gelled compositions. 3,700,451, 10-24-72, Cl. 96-66.000.
Sullivan, John R. Canopy for vehicles. 3,638,993, 2-1-72, Cl. 296-95.
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Sullivan, Joseph T., to Standard-Farrington Alarm & Signal Corporation. Automatic time-controlled alarm system. 3,688,293, 8-29-72, Cl. 340-213.00r.
Sullivan, Matthew A. Control cable. 3,657,942, 4-25-72, Cl. 74-501.
Sullivan, Matthew A., to Sullifoam, Inc. Pallet. 3,675,595, 7-11-72, Cl. 108-51.000.
Sullivan, Matthew A., to Sullivan Products, Inc. Fuel tank for use in model airplanes. 3,679,092, 7-25-72, Cl. 220-85.00r.
Sullivan, Michael F., to Eastman Kodak Company. Palladium images by hydrogen reduction. 3,687,668, 8-29-72, Cl. 96-48.000.
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Sullivan, Robert H., to Du Pont de Nemours, E. I., and Company. Preparation of para nitrobenzoic acids and 4'-nitro-4-biphenycarboxylic acids. 3,681,444, 8-1-72, Cl. 260-515.00r.
Sullivan, Robert H., to Du Pont de Nemours, E. I., and Company. Process for oxidizing xylenes to phthalic acids. 3,700,731, 10-24-72, Cl. 260-524.00r.
Sullivan, Robert J., to Caterpillar Tractor Company. Scraper apron for improved closing in rock. 3,693,273, 9-26-72, Cl. 37-129.000.
Sullivan, Robert P.; and McClain, John N., to Combustion Engineering, Inc. Assembly fixture for constructing superheater and/or reheater modules. 3,644,978, 2-29-72, Cl. 29-202.

Sullivan, Robert T., to Polaroid Corporation. Camera attachment for copying photographic transparencies. 3,697,175, 10-10-72, Cl. 355-39.000.

Sullivan, Ronald D.: *See—*
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Sullivan, Shelby F.; and Whitehouse, Harper John, to United States of America, Navy. Structural material with controlled gas entrapment. 3,632,703, 1-4-72, Cl. 264-40.

Sullivan, Thomas E.; and Frenkel, Lothar, to United States of America, National Aeronautics and Space Administration. Waveguide mixer. 3,633,110, 1-4-72, Cl. 325-445.

Sullivan, Wayne A.; and Scolaro, Donald A., to Bendix Corporation, The. Gated variable polarity reversing ramp generator. 3,648,067, 3-7-72, Cl. 307-228.

Sullivan, Wayne S., to Camelot Stone, Inc. Method of making cellular plastic building panel. 3,700,516, 10-24-72, Cl. 156-79.000.

Sullivan, William A.: *See—*
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Sullivan, William A., to Xerox Corporation. Method and apparatus for removing a residual image in an electrostatic copying system. 3,634,077, 1-11-72, Cl. 96-1.4.

Sullivan, William A., to Xerox Corporation. Simultaneous image transfer. 3,697,171, 10-10-72, Cl. 355-17.000.

Sullivan, William A., Jr.: *See—*
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Sullivan, William A., Jr., to Xerox Corporation. Method for developing electrostatic latent images. 3,707,390, 12-26-72, Cl. 117-17.500.

Sulser, Troy S.: *See—*
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Sulzberg, Theodore; and Cotter, Robert J., to Union Carbide Corporation. Carboxy 9-dicyanomethylene nitrofluorene. 3,637,798, 1-25-72, Cl. 260-465.

Sulzer Brothers Limited: *See—*
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Sumiyoshi, Masaharu: *See*—
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Sumlock Anita Electronics Limited: *See*—
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Summer, Dale E.: *See*—
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Summer, James R., to Garrett Corporation, The. Fail-safe inflatable slide. 3,674,124, 7-4-72, Cl. 193-25.00b.

Summer, James R.; and White, Randall F., to Garrett Corporation, The. Fluid distensible truss. 3,692,144, 9-19-72, Cl. 182-48.000.

Summerer, Raymond Edwin: *See*—
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Summerfelt, Vernon E., to Clorox Company, The. Liquid drain opening composition and method. 3,697,431, 10-10-72, Cl. 252-103.000.

Summerfield, William F.; and Nuttall, Fleet E., to Mattel, Inc. Simplified talking toy. 3,667,763, 6-6-72, Cl. 274-9.00r.

Summerfield, William F., to Mattel, Inc. Strip record for a phonograph. 3,675,930, 7-11-72, Cl. 274-11.00r.

Summerlin, Frederick A.: *See*—
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Summerlin, Frederick A., to Avdel Limited. Lockbolt swaging apparatus. 3,645,125, 2-29-72, Cl. 72-391.

Summerlin, Frederick Arthur: *See*—
Bradley, William David; and Summerlin, Frederick Arthur, 3,657,956.
Sanders, John Stewart; Savage, Donald Stanley; and Summerlin, Frederick Arthur, 3,646,757.

Summers, Charles Gene; and Young, Evan Johnson, to Monsanto Company. Stabilizing polymers with 2,2'-methylenebis (6-alkyl or cycloalkyl)-3,4-xylenols. 3,632,553, 1-4-72, Cl. 260-45.95.

Summers, Charles W.: *See*—
Horn, Leo B.; and Summers, Charles W., 3,662,699.

Summers, Daniel J., Jr.: *See*—
Lowery, Ronald M.; and Summers, Daniel J., Jr., 3,700,808.

Summers, George D., to Fairchild Industries, Inc. Visual display communication apparatus for enabling a handicapped or infirm individual to communicate information. 3,651,512, 3-21-72, Cl. 340-325.

Summers, George D. Implantable bio-data monitoring method and apparatus. 3,672,352, 6-27-72, Cl. 128-2.00r.

Summers, Gerald D.: *See*—
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Summers, James E., Jr. Metal identification meter employing the thermoelectric effect. 3,667,032, 5-30-72, Cl. 324-32.
Summers, Joe N., Jr.: *See—*
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Summers, Stanely E.; and Seltzer, Clyde W., to Ametek, Inc. Mechanical fuse. 3,675,282, 7-11-72, Cl. 24-230.0sl.
Summers, Stanley E., to Ametek, Inc. Pressure relief device. 3,693,691, 9-26-72, Cl. 152-427.000.
Summers, Thomas W., to Brown and Williamson Tobacco Corporation. Piston type cigarette filter. 3,695,274, 10-3-72, Cl. 131-10.00a.
Summers, Thomas Wade: *See—*
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Sumoto, Takao: *See—*
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Sump, Kenneth R.; Robinson, Ramon K.; Drumheller, Kirk; and Howard, Boyd D., to United States of America, Atomic Energy Commission. Process of forming an isotopic heat source. 3,666,846, 5-30-72, Cl. 264-.500.
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Sung, Fu-Tien, to Grove Manufacturing Company. Crane boom. 3,690,742, 9-12-72, Cl. 308-3.00r.
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Sung, Rodney L.; Dille, Kenneth L.; and Newman, Stanley R., to Texaco Inc. Mixtures of alkoxylated diphenyl monohalo phosphates phenyl, dihalo phosphates, and triphenyl phosphates as motor fuel additives. 3,658,497, 4-25-72, Cl. 44-69.
Sung, Thomas. Circularly sweeping toothbrush. 3,702,487, 11-14-72, Cl. 15-22.00r.
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Sutphin, John A.; and Whippen, Marlen G., to Hercules Incorporated. Injection molding process for inhibiting propellant. 3,642,961, 2-15-72, Cl. 264-3.
Sutren, Claude, to Regie Nationale des Usines Renault and Automobiles Peugeot. Folding head control devices. 3,658,378, 4-25-72, Cl. 296-137.
Sutter, David Lord, to American Cyanamid Company. Apparatus and process for producing novel extruded acrylic sheet. 3,642,752, 2-15-72, Cl. 260-89.5.
Sutter, Delos Mason: *See—*
Boore, Edward Joseph; and Sutter, Delos Mason, 3,636,755.
Sutter, Fritz; and Maier, Andreas, to Buss AG. Method and an apparatus for the production of dispersions of dyestuffs. 3,669,416, 6-13-72, Cl. 259-21.000.
Sutter, Hermann, to Fischer, F. L. Coagulating instrument. 3,643,663, 2-22-72, Cl. 128-303.17.
Sutter, Hubert; and Beck, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of segment copolymers. 3,703,567, 11-21-72, Cl. 260-880.00b.
Sutter, Robert E. Orthodontic applicator tool. 3,686,762, 8-29-72, Cl. 32-66.000.
Sutterer, William F.: *See—*
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Nemeth, Piroska E.; and Sutton, Blaine M., 3,635,945.
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Sutton, David A., to Information Magnetics Corporation. Air cooled linear motor. 3,681,630, 8-1-72, Cl. 310-16.000.
Sutton, Denver. Tandem wheeled vehicle with stabilizing apparatus. 3,700,059, 10-24-72, Cl. 180-30.000.

Sutton, Edwin Clement. Cord containing and winding device. 3,633,843, 111-72, Cl. 242-96.
Sutton Engineering Company: *See—*
Dickey, Clyde W.; and Bland, Ray A., 3,678,720.
Huertgen, Helmut B., 3,653,247.
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Sutton, James F. Public transportation system. 3,690,267, 9-12-72, Cl. 104-165.000.
Sutton, John Anthony, to Courtaulds Limited. Garment dyeing process. 3,698,855, 10-17-72, Cl. 8-150.000.
Sutton, Raymond. Fire hydrant spray device. 3,650,471, 3-21-72, Cl. 239-67.
Sutton Research Corporation: *See—*
Briskin, Theodore; and Ward, Geoffrey R., 3,640,285.
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Sutyak, John J., to Mesta Machine Company. Edging and slitting apparatus and method. 3,657,953, 4-25-72, Cl. 83-8.
Suurmaa, Raivo Alexandrovich: *See—*
Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.
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Suvanto, Erkki: *See—*
Fredrikson, Bengt; Larsen, Stein; and Suvanto, Erkki, 3,685,570.
Suverison, Lyle B., to General Motors Corporation. Self-retaining fiber optic lens. 3,649,098, 3-14-72, Cl. 350-96.
Suverkrop, Don, to Hopper, Inc. Convertible level luffing crane. 3,685,668, 8-22-72, Cl. 212-8.00a.
Suverkropp, Claus P. J., to Signetics Corporation. Lead straightener and method. 3,687,172, 8-29-72, Cl. 140-147.000.
Suverkropp, Geertrudes H.: *See—*
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Suvorov, Boris V.; Kagarlitsky, Alfred Davydovich; Kan, Iskra Ivanovna; and Lebedeva, Olga Borisovna. Method of producing pyridine. 3,689,491, 9-5-72, Cl. 260-290.00r.
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Suykens, Matthieu, to Borg-Warner (Canada) Limited, mesne. Bulk material discharging arrangement. 3,704,797, 12-5-72, Cl. 214-15.00d.
Suzsuki, Saburo; Isono, Kiyoshi; and Nagatsu, Junsaku. Antibiotics of agricultural fungicides, polyoxins D, E, F, G and H. 3,703,506, 11-21-72, Cl. 260-211.50r.
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Suzuki, Akihisa, to Nippon Gakki Seizo Kabushiki Kaisha. Vibrato effect producing apparatus using reciprocating displacement of both record and playback heads. 3,688,054, 8-29-72, Cl. 179-100.20r.
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Suzuki, Akira, to Toyoda Koki Kabushiki Kaisha; t/a Toyoda Machine Works Limited. Power steering apparatus. 3,657,967, 4-25-72, Cl. 91-372.
Suzuki, Akira; and Narumi, Tadataka, to Toyoda Koki Kabushiki Kaisha. Fluid control system for vehicles. 3,662,548, 5-16-72, Cl. 60-51.
Suzuki, Akira; and Ida, Sagamihara Keisuke, to Tokyo Shibaura Electric Co., Ltd. Hermetically sealed electric compressor. 3,664,771, 5-23-72, Cl. 417-410.000.
Suzuki, Akira; Esashi, Yoshiaki; and Nakanishi, Tsunemoto, to Tamura Electric Works Limited. Tape control apparatus of tape processing machines. 3,687,397, 8-29-72, Cl. 242-191.000.
Suzuki, Choken: *See—*
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Fa, Charles H.; and Suzuki, Clarence K., 3,690,968.
Suzuki, Eiichi, to Toppan Printing Company Limited. Multisurface continuous printing apparatus. 3,689,153, 9-5-72, Cl. 355-89.000.
Suzuki, Eizo: *See—*
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Suzuki, Hajime: *See—*
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Suzuki, Henry K., to Velsicol Chemical Corporation. Process for the production of 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetranydro-4,7-methanoindane. 3,671,595, 6-20-72, Cl. 260-648.00c.
Suzuki, Hideaki: *See—*
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Suzuki, Hideo; Ozawa, Yoshiko; and Tanabe, Osamu, to Industrial Science and Technology, Agency of. Method of reducing raffinose content of beet molasses. 3,647,625, 3-7-72, Cl. 195-11.
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Arimura, Tohru; Kamata, Masamoto; Saito, Morio; Suzuki, Hiromu; and Iguchi, Masakazu, 3,677,045.
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Ogata, Masatzugu; Sato, Mikio; Watanabe, Yutaka; and Suzuki, Hiroshi, 3,637,572.
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Suzuki, Hisao; Musashi, Akira; Hiruta, Makoto; and Muramoto, Hiroo, to Nippon Soda Co., Ltd. Low temperature peroxide curable thermosetting polyurethane resin having terminal unsaturation. 3,678,014, 7-18-72, Cl. 260-77.5cr.
Suzuki, Ichizo; Yasui, Hideo; and Nanba, Kazuhiko, to Kabushiki Kaisha Ohara Kogaku Garasu Seizosho. Optical glass. 3,669,696, 6-13-72, Cl. 106-47.00q.

Suzuki, Isamu; Ichikawa, Kiyoshi; Ohmura, Jyukichi; and Iwashita, Hidemaro, to Asahi Kasei Kogyo Kabushiki Kaisha. Method of improving the stability of polyurethane solutions. 3,642,703, 2-15-72, Cl. 260-77.5.

Suzuki, Isamu; Ichikawa, Kiyoshi; Nakahara, Yasuji; and Kondo, Kunico, to Asahi, Kasei Kogyo Kabushiki Kaisha. Elastic polyurethane fibers. 3,645,976, 2-29-72, Cl. 260-75.

Suzuki, Isao: *See*—
Kikuchi, Makoto; and Suzuki, Isao, 3,703,100.

Suzuki, Jiro, to Dainippon Pharmaceutical Co., Ltd. Tube for connecting blood vessels. 3,683,926, 8-15-72, Cl. 128-334.00r.

Suzuki, Kazu, to Hewlett-Packard Company. Photographing system for oscilloscope. 3,638,549, 2-1-72, Cl. 95-44.

Suzuki, Kazuaki, to Showa Kagaku Kogyo Kabushiki Kaisha. Triazinyl-coumarins. 3,671,524, 6-20-72, Cl. 260-249.800.

Suzuki, Keiichi: *See*—
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Suzuki, Kenkichi: *See*—
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Suzuki, Kenzo; and Sasaki, Seiya, to Riken Piston Ring Ind. Co., Ltd. Process for producing aningot of chromium metal or chromium-base alloy. 3,640,700, 2-8-72, Cl. 75-10.

Suzuki, Kiichi: *See*—
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Suzuki, Kikuji: *See*—
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Suzuki, Kiyoshi, to Teletype Corporation. Ribbon positioning mechanism for telegraph printers. 3,666,069, 5-30-72, Cl. 197-16.000.

Suzuki, Koichiro: *See*—
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Suzuki, Koji: *See*—
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Suzuki, Koji, to Iwasaki Tsushinki Kabushiki Kaisha; a/k/a Iwatsu Electric Co., Ltd. Count-down circuit using a tunnel diode. 3,700,917, 10-24-72, Cl. 307-225.00b.

Suzuki, Kouichi: *See*—
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Suzuki, Kozaburo: *See*—
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Suzuki, Kunimoto: *See*—
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Suzuki, Masao: *See*—
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Suzuki, Masaru: *See*—
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Suzuki, Masaru; and Hyodo, Masayoshi, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Combination turn-signal and hazard-warning signal system. 3,641,493, 2-8-72, Cl. 340-81.

Suzuki, Masaru, to Kabushiki-Kaisha Tokai Denki Seisakushe. Passing signals for automobiles. 3,648,101, 3-7-72, Cl. 315-82.

Suzuki, Masaru; Hyodo, Masayoshi; and Kurihara, Yoshiaki, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Combination turn-signal and hazard-warning system. 3,662,336, 5-9-72, Cl. 340-81.

Suzuki, Masaru, to Kabushiki-Kaisha Tokai Rika Denki Seisakusho. Hazard warning switch for automotive vehicles. 3,665,130, 5-23-72, Cl. 200-61.270.

Suzuki, Masaru; and Murakami, Yukinobu, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Multiple switch construction. 3,671,691, 6-20-72, Cl. 200-61.540.

Suzuki, Masaru, to Kabushiki Kaisha Tokai Rika Denik Seisakusho. Steering structure capable of simultaneously completing a horn circuit in a motor-car. 3,671,758, 6-20-72, Cl. 307-10.00r.

Suzuki, Masaru; and Kawai, Yoshihiro, to Kabushiki-Kaisha Tokai Rika Denki Seisakusho. Directional signaling mechanism for automotive vehicle. 3,699,286, 10-17-72, Cl. 200-61.340.

Suzuki, Masataka; and Shibata, Minoru, to Mitsubishi Denki Kabushiki Kaisha. Electronic cooking apparatus. 3,681,557, 8-1-72, Cl. 219-10.550.

Suzuki Metal Industry Co., Ltd.: *See*—
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Okamoto, Kazuo; Eguchi, Naoki; Sakao, Nasuo; Honda, Ichiro; and Suzuki, Eizo, 3,647,571.

Suzuki, Michio, to Pioneer Electronic Corporation. Magnetic tape magazine playing device. 3,703,251, 11-21-72, Cl. 226-90.000.

Suzuki, Migaku: *See*—
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Suzuki, Minoru: *See*—
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Suzuki, Minoru, to Kabushiki Kaisha Ricoh. Paper feed table lifting device for a printing press. 3,667,385, 6-6-72, Cl. 101-232.

Suzuki, Minoru, to Kabushiki Kaisha Ricoh. Sheet feed device for printing machines and the like. 3,689,062, 9-5-72, Cl. 271-36.000.

Suzuki, Morio: *See*—
Kodera, Yoshihide; Kato, Jun; Shimada, Kazuo; Suzuki, Morio; Ohse, Hidetaka; Ohshima, Satoshi; and Kuriki, Yasunori, 3,654,143.
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Suzuki, Motoyuki: *See*—
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Suzuki, Munehiko; Hosokawa, Etsuo; and Waki, Misao, to Showa Densen Denran Kabushiki Kaisha; a/k/a Showa Electric Wire and Cable Co., Ltd. Novel polyimides and compositions thereof that are soluble in phenolic solvents. 3,634,304, 1-11-72, Cl. 260-33.4.

Suzuki, Munehiko; Hosokawa, Etsuo; Waki, Misao; and Fukushima, Masatada,, to Shawa Densen Denran Kabushiki Kaisha; a/k/a Showa Electric Wire & Cable Co., Ltd. Solvent soluble aromatic polymides and production thereof. 3,666,709, 5-30-72, Cl. 260-33.40p.

Suzuki, Munehiko; Hosokawa, Etsuo; Waki, Misao; and Fukushima, Masatada, to Showa Electric Wire & Cable Co., Ltd. Phenolic-solvent-soluble aromatic polyamide-imide and process for producing same. 3,692,740, 9-19-72, Cl. 260-47.0cp.

Suzuki, Munehiko; Hosokawa, Etsuo; Waki, Misao; and Fukushima, Masatada, to Showa Electric Wire & Cable Co., Ltd. Aromatic polyamide-imides soluble in phenolic solvents and process for producing same. 3,696,077, 10-3-72, Cl. 260-78.0tf.

Suzuki, Nobuhiko, to Nippon Gakki Seizo Kabushiki Kaisha. Presetting device for electronic musical instrument. 3,675,173, 7-4-72, Cl. 335-268.000.

Suzuki, Nobuo: *See*—
Ichikawa, Yataro; Tokashiki, Michiyuki; and Suzuki, Nobuo, 3,632,830.
Ichikawa, Yataro; Tokashiki, Michiyuki; and Suzuki, Nobuo, 3,666,791.
Ichikawa, Yataro; Yamashita, Gentaro; Tokashiki, Michiyuki; and Suzuki, Nobuo, 3,668,235.

Suzuki, Norio; and Furukawa, Yoji, to Tokyo Shibaura Electric Co., Ltd. Projector. 3,670,158, 6-13-72, Cl. 240-41.500.

Suzuki, Osamu: *See*—
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Suzuki, Reiichi; Tahara, Tadasu; and Mototani, Hideo, to Nitto Kasei Co., Ltd. Crystalline propylene polymer compositions of improved workability. 3,674,769, 7-4-72, Cl. 260-93.700.

Suzuki, Rokuji: *See*—
Ishii, Yoshio; Sakai, Shizuyoshi; Fukuda, Nobuo; Shimada, Shoji; Kurokawa, Kikuro; and Suzuki, Rokuji, 3,654,156.

Suzuki, Ruuzo; Sato, Sumihisa; Okamoto, Shuji; Shinozaki, Akira; and Doi, Tatsumi, to Koneshiroku Photo Industry Co., Ltd. Control device for use in copying machines. 3,687,542, 8-29-72, Cl. 355-28.000.

Suzuki, Ryokuya: *See*—
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Suzuki, Ryuji; and Yokozeki, Seiki, to Matsushita Electric Industrial Co., Ltd. High frequency heating apparatus. 3,643,055, 2-15-72, Cl. 219-10.55.

Suzuki, Saburo: *See*—
Shimogaki, Toshio; Suzuki, Saburo; and Shigematsu, Hiroaki, 3,643,780.

Suzuki, Saburo; Isono, Kiyoshi; Nagatsu, Junsaku; Akashiba, Takeo; and Sasaki, Shigeki, to Rikagaku Kenkyusho. Antibiotics of agricultural fungicides, polyoxins A and B; and process for preparing. 3,700,655, 10-24-72, Cl. 260-211.500.

Suzuki, Satoshi: *See*—
Maeda, Yo; Suzuki, Satoshi; Nakamura, Yoshiharu; Masubuchi, Yorimitu; Ueyama, Tamotsu; Fukutomi, Naoki; and Takahashi, Hiroshi, 3,646,670.

Suzuki, Schoichi; and Okumura, Takatosi, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic, musical instrument employing variable resistor fingerboards. 3,694,559, 9-26-72, Cl. 84-1.010.

Suzuki, Seikou: *See*—

Hohsho, Yukio; Yamada, Koichiro; Oyama, Yoshishige; Teranishi, Takao; and Suzuki, Seikou, 3,669,423.
Suzuki, Shigenori: *See*—
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Suzuki, Shigeo: *See*—
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Suzuki, Shigeru; and Nagahara, Yasumori, to Ricoh Co., Ltd. Device for cycling predetermined number of operations of controlled machine or the like. 3,634,637, 1-11-72, Cl. 200-61.41.
Suzuki, Shigeru, to Kabushiki Kaisha Ricoh. Sheet-container and-feeding device. 3,635,468, 1-18-72, Cl. 271-61.
Suzuki, Shigeru, to Ricoh Co., Ltd. Liquid level indicator instrument. 3,644,691, 2-22-72, Cl. 200-84.
Suzuki, Shigeru; Sugita, Keiji; Koizumi, Yutaka; and Kanno, Tadaaki, to Kabushiki Kaisha Ricoh. Electrophotographic duplicator in which copy paper is cut to the length of the original. 3,651,727, 3-28-72, Cl. 83-296.
Suzuki, Shigeru, to Kabushiki Kaisha Ricoh. Slit exposure optical system. 3,661,456, 5-9-72, Cl. 355-66.
Suzuki, Shigeru; Sugita, Keiji; and Nagahara, Yasumori, to Ricoh Co., Ltd. Electrophotographic copying machine. 3,672,762, 6-27-72, Cl. 355-10.000.
Suzuki, Shigeru, to Kabushiki Kaisha Ricoh. Original holder plate for copying machines. 3,682,548, 8-8-72, Cl. 355-113.000.
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Suzuki, Takamitsu: *See*—
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Suzuki, Takashi; and Iesaka, Hiroyuki, to Japan Gas-Chemical Company, Inc. Process for producing durene. 3,636,177, 1-18-72, Cl. 260-668.
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Suzuki, Takashi, to Matsushita Electric Industrial Co. Ltd. Heat-sensitive sheet. 3,674,538, 7-4-72, Cl. 117-36.700.
Suzuki, Takashi; and Furukawa, Hikaru, to Takeda Riken Industry Company Limited. Digital-analog converting apparatus. 3,688,301, 8-29-72, Cl. 340-347.0da.
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Suzuki, Toshio, to Nippon Seiko Kabushiki Kaisha. Shell type needle bearing. 3,677,032, 7-18-72, Cl. 64-17.00a.
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Suzuki, Tsutomu, to Pioneer Electronic Corporation. Magnetic head using the hall effect for reveberation. 3,701,861, 10-31-72, Cl. 170-100.2ch.
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Suzuki, Yoshio; Aono, Shunji; and Fukushima, Hideaki, to Sumitomo Chemical Company, Ltd. Certain thienyl aliphatic hydrocarbon amides. 3,666,774, 5-30-72, Cl. 260-332.20a.
Suzuki, Yoshiro; Nagahara, Shigehiro; and Ichimura, Nobuyoshi, to Asahi Glass Co., Ltd. Solder glass for adhering, sealing or coating. 3,674,520, 7-4-72, Cl. 106-54.000.
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Svaldi, Marvin A., to Marathon Oil Company. Use of diverting agents for injection well stimulation. 3,707,194, 12-26-72, Cl. 166-305.00r.
Svanoe, Hans, to Struthers Scientific and International Corporation. Crystallization of potassium chloride from carnallite decomposition. 3,644,102, 2-22-72, Cl. 23-298.
Svanstrom, Elis Kjell Ake, to Rederiaktiebolaget Nordstjernan. Process for the production of metal powder. 3,661,557, 5-9-72, Cl. 75-.5.
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Svensson, Sven-Erik Vilhelm; and Thoma, Erno Jozef. Flexible scaffold for supporting sliding molds or climbing molds used for the erection of concrete structures. 3,659,978, 5-2-72, Cl. 425-63.
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Svorec, Richard S. Keyed stereophonic transmission system. 3,679,836, 7-25-72, Cl. 179-15.0bt.

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Swain, Charles Gardner, to Ionics, Incorporated. Temperature-compensated current reference. 3,700,934, 10-24-72, Cl. 307-310.000.

Swain, James Bert; and Jeffries, David, to Baisod-Atomic, Inc. Web transport system particularly for high resolution photographic printing. 3,689,154, 9-5-72, Cl. 355-97.000.

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Swaine, Robert L.; and Prendergast, Anne M., to Clay, William C., Jr., mesne. Cola beverage composition and method of making. 3,632,354, 1-4-72, Cl. 99-78.

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Swango, William Herald: *See—*
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Swanke, Roy L.: *See—*
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Swann, Carl C. Twin lens parallax free camera system. 3,653,314, 4-4-72, Cl. 95-44.

Swann, Richard C. G.: *See—*
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Swann, Richard Charles George: *See—*
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Swann, William Richard, to Jessett & Henry (Food Machinery) Limited. Food slicing machines. 3,643,718, 2-22-72, Cl. 146-94.

Swanquist, Wesley W., to All-Steel Equipment Inc. Device for attaching electrical boxes to metal studding. 3,684,230, 8-15-72, Cl. 248-229.000.

Swanson, Arden E.: *See—*
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Swanson, Bruce W.: *See—*
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Swanson, Carl Loyal W.: *See—*
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Swanson, Carl R., to Zenith Radio Corporation. Compact distributed-parameter network. 3,643,182, 2-15-72, Cl. 333-29.

Swanson, Elston H.; Fahnestock, James D.; and Wicks, William H., to Instruments for Industry Inc. Signal generator. 3,689,849, 9-5-72, Cl. 331-1.00a.

Swanson, Eric R.: *See—*
Bickel, John E.; Freres, Clemens H.; Gossard, Earl E.; Britt, James E.; Ortwein, Norman R.; and Swanson, Eric R., 3,680,115.

Swanson, Forrest V.; and Sellon, Raymond N., Jr., to Case, J. I., Company. Plural panel door assembly. 3,692,083, 9-19-72, Cl. 160-206.000.

Swanson, Frank D.; and Gregornik, Norm, to Honeywell Inc. Epoxy-modified, amine curable urethane resin and method of making same. 3,649,599, 3-14-72, Cl. 260-77.5.

Swanson, Garland L. Reel assembly for harvester. 3,638,408, 2-1-72, Cl. 56-219.

Swanson, Gunnar E., to Nielsen Hardware Corporation, The. Catch with anti-release latch. 3,670,371, 6-20-72, Cl. 24-68.00t.

Swanson, Hilmer I., to Gates Radio Company. Pulse duration modulation transmitter. 3,643,161, 2-15-72, Cl. 325-150.

Swanson, Hilmer I., to Harris-Intertype Corporation. Meter driver circuit having initial overdrive and means to discharge a storage circuit at a constant rate. 3,649,911, 3-14-72, Cl. 324-125.

Swanson, John G., to Westinghouse Electric Corporation. Metal-insulator structures and method for forming. 3,671,819, 6-20-72, Cl. 317-234.000.

Swanson, John J.: *See—*
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Swanson, John L., to United States of America, Atomic Energy Commission. Method of improving recovery of neptunium in the purex process. 3,652,233, 3-28-72, Cl. 23-341.

Swanson, John W.; Hartman, David A.; Beers, Russel L.; and Jamieson, Ernest J., to Cities Service Oil Company. Lubricating oil composition. 3,647,694, 3-7-72, Cl. 252-51.5.

Swanson, Kenneth B.: *See—*
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Swanson, Kenneth W.; Rolland, William C.; and Kraft, Michael J., to Pneumatic separator, filter and particle conveying. system. 3,703,957, 11-28-72, Cl. 209-144.000.
Swanson, Norman, to Veritas International. Hull construction. 3,650,235, 3-21-72, Cl. 114-67.
Swanson, Raymond W.; and Yaffe, Marvin M.; deceased (Yaffe, Beverly Ruth; administratrix). Contra-leverage construction for a truck-and like stake. 3,661,420, 5-9-72, Cl. 296-43.000.
Swanson, Raymond W. Releasable automatic fastener for a truck stake and like. 3,674,304, 7-4-72, Cl. 296-43.000.
Swanson, Richard Maurice, to Bell Telephone Laboratories, Incorporated. Line lockout circuit. 3,705,959, 12-12-72, Cl. 179-18.00f.
Swanson, Robert E. Aerosol operated horn. 3,670,690, 6-20-72, Cl. 116-112.000.
Swanson, Roger I., to Dake Corporation. Method and means for indicating tension. 3,696,412, 10-3-72, Cl. 340-421.000.
Swanson, Rollin J. Atmospheric water collector. 3,675,442, 7-11-72, Cl. 62-285.000.
Swanson, Ronald R.: *See—*
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Swanson, Swan G. Variable high speed gear pump. 3,669,577, 6-13-72, Cl. 418-21.
Swanson, Wayne L. Method and apparatus for handling articles in transit. 3,665,866, 5-30-72, Cl. 105-369.
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Swanson, William C.; Moyer, Donald W.; and Asmus, Rodger W., to International Harvester Company. Manual disconnect and feathering control for a hydrostatic transmission. 3,699,678, 10-24-72, Cl. 60-53.00r.
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Swanwick, Barry Frederick, to Monk, S. A., (Sutton in Ashfield) Limited. Straight bar knitting machines. 3,657,905, 4-25-72, Cl. 66-89.
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Swanwick, Barry Frederick; West, Ernest; and Cuthbertson, John Harry, to S.A. Monk (Sutton-in-Ashfield) Limited. Yarn carrier driver means for vee bed knitting mchines. 3,673,819, 7-4-72, Cl. 66-126.000.
Swarbrick, Richard; and Katselis, George N. Nicolas. Analog computing apparatus for performing square rooting, multiplication and logarithmic calculation. 3,634,671, 1-11-72, Cl. 235-193.
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Swart, Richard H., Sr. Humidifier control system. 3,640,265, 2-8-72, Cl. 126-113.
Swartz, Edward. Watertight electric receptacle connector. 3,633,150, 1-4-72, Cl. 339-36.
Swartz, Elmer L., to United States of America, Army. One shot fluid gate. 3,690,338, 9-12-72, Cl. 137-81.500.
Swartz, Harold Lee: *See—*
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Swartz, Horace M.: *See—*
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Swartz, Horace M., to FMC Corporation. Truck tow conveyor switching apparatus. 3,691,959, 9-19-72, Cl. 104-88.000.
Swartz, Jerome: *See—*
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Swartz, Leonard B., to Oxygen Valve Company of America. Gas supply connector and regulator valve. 3,646,965, 3-7-72, Cl. 137-614.06.
Swartz, Paul S.; and Westendorp, Willem F., to General Electric Company. Acyclic generator with vacuum arc commutator for rapid generation of short, high energy pulses. 3,646,394, 2-29-72, Cl. 315-205.
Swartz, William M. Method of making plastic articles. 3,631,580, 1-4-72, Cl. 29-407.
Swartz, William M. Method for applying letters to plaques and the like. 3,676,248, 7-11-72, Cl. 156-235.000.
Swatman, Peter P., to British Leyland (Austin-Morris) Limited. Carburetters for internal combustion engines. 3,667,741, 6-6-72, Cl. 261-50.00a.
Swatt, Leonard W., to Acme Spring Company. Adjustable bed. 3,644,946, 2-29-72, Cl. 5-68.
Swayn, Francis H. Fabric treatment processes. 3,650,672, 3-21-72, Cl. 8-137.
Swayne, Kenneth G.; and Dragun, Henry L., to Du Pont de Nemours, E. I., and Company. Plug flow method for molding foamed polylactams. 3,663,670, 5-16-72, Cl. 264-53.
Swearingen Aviation Corporation, mesne: *See—*
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Swearingen, Judson S. Rotary gas handling machine and rotor therefor free of vibration waves in operation. 3,642,379, 2-15-72, Cl. 415-119.
Swearingen, Judson S. Removal of dispersed gas from lubricating fluids. 3,670,850, 6-20-72, Cl. 184-6.230.
Swearingen, Judson S.; and Sunder, Sham. Refrigeration process for use in liquefication of gases. 3,690,114, 9-12-72, Cl. 62-40.000.
Swearingen, Kent W.: *See—*
Berglund, Neil C.; King, Robert W.; and Swearingen, Kent W., 3,672,297.
Bunker, William H.; Kerr, John W.; Mitrofanoff, Nicholas S.; and Swearingen, Kent W., 3,680,054.
Swearingen, Kent W., to International Business Machines Corporation. Apparatus for controlling the cycle steals required by a chain printer under CPU control. 3,693,160, 9-19-72, Cl. 340-172.500.
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Swedenberg, Clyde J.; and Cziesla, Manfred J., to United States of America, Navy. Homogeneous solid solution oxidizing composition. 3,697,340, 10-10-72, Cl. 149-19.000.
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Sweeney, Eric C.: *See—*
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Sweeney, Frank B., to Emcon Technology, Inc. PCV valve. 3,664,368, 5-23-72, Cl. 137-480.
Sweeney, Gerald T.; and Erdman, Oliver E., to Soil Sampling Service, Inc. Method and apparatus for installing elongated cords in unstable earth formations. 3,665,717, 5-30-72, Cl. 61-39.000.
Sweeney, James S.: *See—*
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Sweeney, Richard F.; and Price, Alson K., to Allied Chemical Corporation. Novel polyfluorosulfonate salts. 3,642,880, 2-15-72, Cl. 260-503.
Sweeney, Richard F.; Price, Alson K.; and Khan, Aziz U., to Allied Chemical Corporation. Polyfluoroisoalkoxyalkyl amido carboxylic acids and salts thereof. 3,644,513, 2-22-72, Cl. 260-534.
Sweeney, Richard F.; and Price, Alson K., to Allied Chemical Corporation. Fluorocarbon derivatives. 3,651,069, 3-21-72, Cl. 260-294.8.
Sweeney, Richard F.; Khan, Aziz Urrehman; Price, Alson K.; Jones, Edward Stephen; and Otto, Julian A., to Allied Chemical Corporation. Derivatives pyridinium of polyfluoroisoalkoxy-alkanamides. 3,674,800, 7-4-72, Cl. 260-295.0am.

Sweeney, Richard F.; and Price, Alson K., to Allied Chemical Corporation. Quaternary ammonium compounds. 3,681,413, 8-1-72, Cl. 260-404.500.

Sweeney, Richard F.; and Yao, Charles Cheng-Yu, to Allied Chemical Corporation. Preparation of polyhaloisoalkoxyalkanoic acids and derivatives thereof. 3,700,733, 10-24-72, Cl. 260-544.00f.

Sweeney, Robert. Disposable self-packaging dustpan kit. 3,639,937, 2-8-72, Cl. 15-104.8.

Sweeney, Robert. Vapor control sheet material. 3,650,883, 3-21-72, Cl. 161-162.

Sweeney, Thomas E. Foldable semi-rigid airfoil for airborne vehicles. 3,647,163, 3-7-72, Cl. 244-49.

Sweeney, William A.: *See—*
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Sweeney, William A.; and Woo, Gar Lok, to Chevron Research Company. Hydrogenated olefin sulfonate detergent bars. 3,652,662, 3-28-72, Cl. 260-513.

Sweeney, William A., to Chevron Research Company. Color reduction of olefin sulfonates. 3,699,157, 10-17-72, Cl. 260-513.00r.

Sweeney, William A.; and Woo, Gar Lok, to Chevron Research Company. Hydrogenated olefin. 3,705,114, 12-5-72, Cl. 252-555.000.

Sweeney, William G.: *See—*
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Sweeney, William M.; and Bialy, Jerzy J., to Texaco Inc. Thermally stable jet fuel composition. 3,647,404, 3-7-72, Cl. 44-62.

Sweeney, William M.; Bialy, Jerzy J.; and Dille, Kenneth L., to Texaco Inc. Thermally stable jet fuel composition. 3,652,239, 3-28-72, Cl. 44-63.

Sweeney, William M.; and Alexander, David Lee, to Texaco Inc. Process for transportation of waxy crude oils. 3,675,671, 7-11-72, Cl. 137-13.000.

Sweeney, William M., to Texaco Inc. Pour depressant compositions of cracked ethylene/propylene/diene terpolymers. 3,681,302, 8-1-72, Cl. 260-80.780.

Sweenie, Richard E.; and Griffith, James M., to Magnavox Company, The. Acoustic coupler and preamplifier for facsimile machines. 3,657,479, 4-18-72, Cl. 179-1.00c.

Sweeny, Allen N., to Devlieg Machine Company. Tool having resilient bumper. 3,699,843, 10-24-72, Cl. 90-11.00a.

Sweeny, Keith H.; and Fischer, James R., to United States of America, Interior. Reductive degradation of halogenated pesticides. 3,640,821, 2-8-72, Cl. 210-59.

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Sweet, Douglas W., to General Motors Corporation. Synchronoizing circuit for four-wheel anti-lock brake control system. 3,702,206, 11-7-72, Cl. 303-21.00r.

Sweet, Ervin J.: *See—*
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Rygelis, Joseph; Sweet, Ervin J.; and Doyle, Brian W., 3,672,162.

Sweet, Ervin J.; Doyle, Brian W.; and Rygelis, Joseph, to Avco Corporation. Combustion liner joint. 3,698,743, 10-17-72, Cl. 285-41.000.

Sweet, Harold C., 50% to Williams, Merton E. Portable distillery. 3,672,959, 6-27-72, Cl. 202-181.000.

Sweet, Larrie H.; and Baker, Nelson H., Jr., to Carborundum Company, The. Furnace wall construction. 3,668,831, 6-13-72, Cl. 52-484.000.

Sweet, Ralph; and Dyck, F. Ben, to Sweet, Ralph, General Delivery. Automatic depth control device for tillage units. 3,658,133, 4-25-72, Cl. 172-4.

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Sweetser, Donald Arthur, to Thomas Industries Inc. Combined lighting and ventilating fixture. 3,701,895, 10-31-72, Cl. 240-9.00a.

Sweger, Russell P., to Barber-Colman Company. Transmitter-receiver system. 3,662,241, 5-9-72, Cl. 318-473.

Sweger, Russell P., to Barber-Colman Company. On-off time proportioning summer-winter thermostat and control system employing same. 3,667,539, 6-6-72, Cl. 165-26.000.

Sweger, Theodore J., to Illinois Railway Equipment Company. Device for automatically latching a container to a railway car or the like and for automatically unlatching it therefrom. 3,670,663, 6-20-72, Cl. 105-366.00c.

Sweitzer, Richard G.: *See—*
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Sweitzer, Stanley E., to Western Electric Company, Incorporated. Methods for selectively coating ferromagnetic articles. 3,635,730, 1-18-72, Cl. 117-38.

Swenck, George F., to Reynolds Metals Company. Method of making ball bat metal body system. 3,691,625, 9-19-72, Cl. 29-557.000.

Swengel, Robert Charles, Sr.; and Lemke, Timothy Allen, to AMP Incorporated. Terminal device for welded termination of electrical leads. 3,656,092, 4-11-72, Cl. 339-213.

Swengel, Robert Charles, Sr., to AMP Incorporated. Pre-insulated and uninsulated wire terminal bonding process and apparatus. 3,703,623, 11-21-72, Cl. 219-137.000.

Swensen, Eugene L.; and Gibson, Franklin E., to Liskey Aluminum Inc. Floor panel for an elevated floor assembly. 3,696,578, 10-10-72, Cl. 52-618.000.

Swenson, Donald G.; and Trautman, George H., Jr., to Niagara Machine & Tool Works. Deflection compensating press brake die support. 3,702,558, 11-14-72, Cl. 72-389.000.

Swenson, Henry F. Swing arm for holding a dressing device. 3,669,089, 6-13-72, Cl. 125-11.

Swenson, Henry F. Grinding wheel dressing apparatus. 3,695,249, 10-3-72, Cl. 125-11.0cd.

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Swenson, Robert A.: *See—*
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Swerdfeger, Leroy E., to Malan Vibrator Co., Inc. Free rotor vibrator. 3,650,509, 3-21-72, Cl. 259-1.

Swerdlow, Nathan, to General Electric Company. Liquid cooled bus containing a disconnecting link. 3,646,245, 2-29-72, Cl. 174-21.

Swerdlow, Richard Barry, to Bell Telephone Laboratories, Incorporated. Push-pull feed-forward amplifier. 3,693,109, 9-19-72, Cl. 330-81.000.

Swered, Paul: *See—*
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Swersey, Burt L., to Brookline Instrument Company. Infusion monitor utilizing weight detecting means. 3,656,478, 4-18-72, Cl. 128-214.

Swet, Charles J., to United States of America, Navy, mesne. Deployment method for a telescoping solar array. 3,635,425, 1-18-72, Cl. 244-1.

Swet, Charles J., to United States of America, Navy. Optical scanning spacecraft system. 3,676,581, 7-11-72, Cl. 178-5.40r.

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Swets, Don E., to General Motors Corporation. Crystal growth of tetrigonal germanium dioxide from a flux. 3,650,702, 3-21-72, Cl. 23-300.

Swett, Alan M.: *See—*
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Swett, James B.; and Croyle, Jack V., to Dart Industries, Inc. Press type closure. 3,679,088, 7-25-72, Cl. 220-42.00r.

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Swett, James B., to Dart Industries Inc. Mold for congealable comestibles. 3,680,828, 8-1-72, Cl. 249-134.000.

Swett, James B.; and Smith, Sidney Z., to Dart Industries, Inc. Storage container for celery or the like. 3,698,783, 10-17-72, Cl. 312-351.000.

Swett, James B.; and Ashton, Harold P., to Dart Industries, Inc. Mold for ingestible substances. 3,700,204, 10-24-72, Cl. 249-104.000.

Swett, Leo Ralph, to Abbott Laboratories. 1,3-Dimethyl-5-methylamino-8-phenylpyrazolo [4,3-e] [1,4] diazepine. 3,657,271, 4-18-72, Cl. 260-310.

Swett, Leo Ralph; and Ratajczyk, James Daniel, to Abbott Laboratories. 5-Pyrazolylthiopropionic acid derivatives. 3,665,008, 5-23-72, Cl. 260-310.

Swett, Leo Ralph; and Ratajczyk, James Daniel, to Abbott Laboratories. Pyrazolothiazepines and isoxazolothiazepines. 3,669,983, 6-13-72, Cl. 260-307.00h.

Swett, Leo Ralph; Ratajczyk, James Daniel; and Young, Patrick Richard, to Abbott Laboratories. N'-[4-formyl]-5-amido pyrazoles. 3,686,171, 8-22-72, Cl. 260-240.00g.

Swett, Leo Ralph; and Paris, Gerard Yvon, to Abbott Laboratories. 1,3-Dimethyl-4,5-di (p-substituted phenyl)-6H-pyrrolo [2,3-c] pyrazoles. 3,701,785, 10-31-72, Cl. 260-310.00r.
Swezey, Edwin W., to Union Camp Corporation. Process and apparatus for forming display packages. 3,657,855, 4-25-72, Cl. 53-3.
Swiatosz, Edmund; and Chambers, Walter S., to United States of America, Navy. Fire fighting and control similator. 3,675,343, 7-11-72, Cl. 35-10.000.
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Swiecicki, Ignacy, to Allis-Chalmers Manufacturing Company. Valve with energy dissipation chamber. 3,704,856, 12-5-72, Cl. 251-118.000.
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Sysun, Viktor Viktorovich; Skvortsov, Boris Vasilievich; Basov, Jury Georgievich; and Roldugin, Vladimir Ivanovich. Gas-dynamic discharge light source. 3,703,658, 11-21-72, Cl. 313-113.000.
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Sze, Morgan C.; Unger, Harold; and Bennett, Thomas M., to Lummus Company, The. Delayed coking of pyrolysis fuel oils. 3,687,840, 8-29-72, Cl. 208-131.000.
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Szeles, Marcel. Anti-glare headlights. 3,643,081, 2-15-72, Cl. 240-7.1.
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Szigeth, Laszlo, to Lonza Ltd. Method for the catalytic hydrogenation of organic nitro derivatives in the gaseous state to corresponding amines. 3,636,152, 1-18-72, Cl. 260-580.
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Szmuszkovicz, Jacob, to Upjohn Company, The. Compositions and methods for lowering blood sugar levels. 3,651,232, 3-21-72, Cl. 424-267.

Szmuszkovicz, Jacob, to Upjohn Company, The. Diaminocycloalkanes. 3,652,559, 3-28-72, Cl. 260-247.5.

Szmuszkovicz, Jacob, to Upjohn Company, The. 2,3-Bis(p-methoxyphenyl)-indole-5-carboxylic acid derivatives. 3,654,308, 4-4-72, Cl. 260-326.13.

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Szostak, Henryk; and Smith, Clarence C., to Union Special Machine Company. Machines stitch forming and thread controlling mechanisms for sewing. 3,688,711, 9-5-72, Cl. 112-162.000.

Szostak, Roland; Hartwig, Karl; and Maurischat, Gunter, to Agfa-Gevaert Aktiengesellschaft. Electronic copying equipment with controlled heater. 3,705,289, 12-5-72, Cl. 219-216.000.

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Szptyman, Jack J. Watercraft. 3,702,598, 11-14-72, Cl. 114-67.00a.

Szpur, Roman, to NDM Corporation, mesne. Medical electrode with relatively rigid electrolyte cup. 3,696,807, 10-10-72, Cl. 128-10e.

Szpur, Roman, to Sebon Corporation, The. Syringe and method. 3,699,961, 10-24-72, Cl. 128-218.00m.

Sztorc, Stanley J., to National Creative Merchandising Corporation. Cartridge holder. 3,666,337, 5-30-72, Cl. 312-111.

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Szucs, Robert J., to Borg-Warner Corporation. Hospital bed. 3,678,519, 7-25-72, Cl. 5-62.000.

Szulagyi, Bela A.; Brent, Allan L.; and Greguss, Pal, to Modern Pollution Control, Inc. Incinerator. 3,680,501, 8-1-72, Cl. 110-8.00a.

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Szumilas, Wladislaw; Adam, Macedon Emil; Lata, Ilie; and Muresan, Gheorghe, to Uzina Mecanica de Gaz Metan Medias. Plug-type valve with lost-motion actuator. 3,685,793, 8-22-72, Cl. 251-164.000.

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Szupillo, Raymond E. Thin films of alpha Fe_2O_3 and method of forming. 3,695,908, 10-3-72, Cl. 117-8.000.

Szwarc, John J.; and Doyle, Thomas E., to Freeman Chemical Corporation. Apparatus for concentrating ultraviolet radiation, for curing polymerizable compositions and method for hardening filling compositions in dental cavities. 3,638,312, 2-1-72, Cl. 32-15.

Szyfter, Bruno. Floatable breakwater element. 3,673,805, 7-4-72, Cl. 61-5.000.

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Szymanski, Chester D., to National Starch and Chemical Corporation. Novel converting starch. 3,635,741, 1-18-72, Cl. 106-213.

Szymanski, Leonard W.; and Slaski, Joseph A., to Lift Parts Mfg., Inc. Extendable self-aligning trailer hitch. 3,698,739, 10-17-72, Cl. 280-478.00b.

Szymanski, Ronald. Dual purpose luminous headlight safety ring and fog lens attachment means. 3,696,238, 10-3-72, Cl. 240-46.590.

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T & E Manufacturing Company: *See—*
Burgess, Ronald, 3,648,571.

T. & T. Vicars Limited: *See—*
Crispe, Stanley William; and Wood, Henry, 3,642,114.

T & W Manufacturing Corporation: *See—*
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T. I. (Group Services) Limited: *See—*
Whittington, Keith Richard, 3,693,415.

T. M. M. (Research) Limited: *See—*
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T. O. Plastics: *See—*
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T. O. Plastics, Inc.: *See—*
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T. V. Manufacturing Limited: *See—*
Ayers, Peter John Henry, 3,665,270.

T-Bar Incorporated: *See—*
Lambert, James B.; Seiden, Lewis J.; and Morgan, Henry A., 3,689,856.

Tabankin, Phyllis. Sequentially-operable hidden camera device. 3,672,269, 6-27-72, Cl. 95-11.

Tabares, Gilbert; and Clifford, Joseph, to International Telephone and Telegraph Corporation. Switching device with cams pivotal about an axis parallel to the plane of movement of switch plungers. 3,655,932, 4-11-72, Cl. 200-153.

Tabary, Jean, to Lebon & Cie (Cie Centrals d'Eclairage par l'Gas). Storage of fluids. 3,683,628, 8-15-72, Cl. 61-.500.

Tabasso, Giovanni: *See—*
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Tabata, Hisanobu; Tabata, Norimasa; and Nakajima, Rokuro. Production of fresh water, brine and magnesium hydroxide. 3,676,067, 7-11-72, Cl. 23-204.00r.

Tabata, Masaaki: *See—*
Susami, Kozo; Minami, Keiichi; Tabata, Masaaki; Kojima, Teiryo; and Yunoki, Zyuji, 3,660,973.

Tabata, Norikazu: *See—*
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Tabata, Norimasa: *See—*
Tabata, Hisanobu; Tabata, Norimasa; and Nakajima, Rokuro, 3,676,067.

Tabata, Yoneho; and Oizumi, Chihiro, to Japan Atomic Energy Research Institute. Lower temperature solid phase polymerization of acrylonitrile in the presence of an organic carbonyl compound. 3,679,562, 7-25-72, Cl. 204-159.230.

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Tabayanagi, Seiichi: *See—*
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Tabenkin, Benjamin: *See—*
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Jungermann, Eric; Taber, David; and Raphaelian, Leo A., 3,652,768.
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Taber, David; and Raphaelian, Leo A., to Armour-Dial, Inc. Synergistic antiseptic compositions. 3,687,856, 8-29-72, Cl. 252-107.000.

Taber, David; and Raphaelian, Leo A. Synergistic antiseptic compositions. 3,705,104, 12-5-72, Cl. 252-107.000.

Taber, Robert C.: *See—*
Brooker, Leslie G. S.; Daniel, Daniel S.; and Taber, Robert C., 3,639,127.

Taber, Robert C.; and Russell, William H., to Eastman Kodak Company. Photographic elements and means for rapid processing of photographic elements. 3,647,459, 3-7-72, Cl. 96-66.5.

Taber, Robert C.; and Koller, James E., to Eastman Kodak Company. Direct-positive photographic elements containing multiple layers. 3,647,463, 3-7-72, Cl. 96-68.

Taber, Robert C., to Eastman Kodak Company. Speed increasing combination of stabilizers for radiographic elements. 3,671,258, 6-20-72, Cl. 96-107.000.
Taber, Russell E. Display device. 3,631,820, 1-4-72, Cl. 108-2.
Taber, Russell E. Display device. 3,688,914, 9-5-72, Cl. 211-49.00s.
Tabet Manufacturing Co., Inc.: *See—*
Tabet, Michael A., 3,673,484.
Tabet, Michael A., to Tabet Manufacturing Co., Inc. Remote servo control circuit for remote controlled switches and switchboards. 3,673,484, 6-27-72, Cl. 318-674.000.
Tabisz, Sylvester C.: *See—*
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Tabke, Robert S.: *See—*
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Johnson, Marvin M.; and Tabler, Donald C., 3,677,933.
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Tabler, Donald C., to Phillips Petroleum Company. Molybdenum-antimony hydrogenation catalyst. 3,651,158, 3-21-72, Cl. 260-667.
Tabler, Donald C.; and Johnson, Marvin M., to Phillips Petroleum Company. Dehydrocyclization of hydrocarbons. 3,651,164, 3-21-72, Cl. 260-673.5.
Tabler, Donald C.; and Johnson, Marvin M., to Phillips Petroleum Company. Disproportionation of alkylbenzenes. 3,668,265, 6-6-72, Cl. 260-672.
Tabler, Donald C., to Phillips Petroleum Company. Hydrocarbon dehydrogenation employing metal antimonide catalysts. 3,676,513, 7-11-72, Cl. 260-668.00d.
Tabler, Donald C., to Phillips Petroleum Company. Semi-homogeneous liquid suspension catalyst complex for selective hydrogenation. 3,692,852, 9-19-72, Cl. 260-666.00a.
Tabler, James G.: *See—*
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Tabor, John R., to Mining Equipment Manufacturing Corporation. Tunneling machine with tandem spoil barriers. 3,667,808, 6-6-72, Cl. 299-33.
Tabor, John R. Tunneling machine with concrete wall forming mechanism. 3,677,602, 7-18-72, Cl. 299-31.000.
Tabor, John R. Tuneling machine with concrete form transfer apparatus. 3,690,470, 9-12-72, Cl. 214-1.0bb.
Tabor, Joseph M.; and Betker, Ted C., to General Mills Fun Group, Inc. Frame for stretching and mounting a needlecraft project. 3,678,607, 7-25-72, Cl. 38-102.910.
Tabor, Paul C., to Meteor Research Limited. Rod and clevis assembly. 3,687,488, 8-29-72, Cl. 287-59.000.
Tabor, Theodore E.; Farber, Hugh A.; and Vivian, Thomas A., to Dow Chemical Company, The. Method and compositions for treating flexible substrates. 3,658,575, 4-25-72, Cl. 117-102.
Tabuchi, Hideho: *See—*
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Tabuchi, Ichiro; Iwami, Akira; Harita, Yasuhiro; and Yamamoto, Toshiaki, to Mitsui Shipbuilding and Engineering Co., Ltd. Container supporting apparatus in the container ship. 3,669,284, 6-13-72, Cl. 214-10.5.
Tabuchi, Ichiro; and Harita, Yasuhiro, to Mitsui Shipbuilding and Engineering Co., Ltd. Apparatus for fixing containers in the ship. 3,680,518, 8-1-72, Cl. 114-72.000.
Tabuchi, Kimitaka: *See—*
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Taburinsky, Grigory Semenovich; Gutterman, Eduard Mikhailovich; and Fain, Arnold Izrailevich, to Vsesojuzny Nauchno-Issledovatelsky Institut liteinogo maschinostroenia liteinoi tekhnologii i Avtomati. Sandslinger head. 3,682,231, 8-8-72, Cl. 164-198.000.
Taccone, Russell W. Cooling conveyor. 3,659,701, 5-2-72, Cl. 198-221.
Taccone, Russell W., to Bangor Punta Operations, Inc. High impact molding machine. 3,692,093, 9-19-72, Cl. 164-212.000.
Taccone, Russell W., to Bangor Punta Operations, Inc. Mold forming apparatus. 3,695,339, 10-3-72, Cl. 164-213.000.
Tacey, Charles Arthur, to Philograph Publications Limited. Didactic apparatus. 3,636,230, 1-18-72, Cl. 35-34.
Tachibana, Sachihiko; Nakai, Susumu; Makino, Yoichi; Matsumura, Hisashi; Tabuchi, Kimitaka; Hiraoka, Michio; Akoh, Shigeichi; and Orito, Hiroshi, to Henshu Seishi Kabushiki Kaisha. Apparatus for producing non-woven fabrics. 3,644,078, 2-22-72, Cl. 425-83.
Tachick, Henry N., to General Electric Company. Solid state voltage and fault detector means having integral circuit integrity indicators. 3,639,833, 2-1-72, Cl. 324-51.
Tachick, Henry N., to General Electric Company. Handling means for a cable termination housing having stress isolating means between the housing and the handling means. 3,646,503, 2-29-72, Cl. 339-110.
Tachick, Henry N.; and Belcher, James E., to General Electric Company. Support means for pivotally mounting a power cable termination housing. 3,662,297, 5-9-72, Cl. 339-60.
Tachida, Hiroki, to Nippon Gakki Seizo Kabushiki Kaisha. Hammer flange mounting structure for use in piano. 3,696,699, 10-10-72, Cl. 84-25.00.
Tachikawa, Kyoji; Tanaka, Yoshiaki; and Fukuda, Satoshi, to National Research Institute for Metals, Director of. Superconductor and its manufacturing method. 3,674,553, 7-4-72, Cl. 117-217.000.
Tachikawa Research Institute: *See—*
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Asaeda, Takashi, 3,632,722.
Asaeda, Takashi, 3,632,723.
Tachikawa, Ryuji; Takagi, Hiromu; Kamioka, Toshiharu; Fukunaga, Mitsunobu; Kawano, Yoichi; and Miyadera, Tetsuo, to Sankyo Company Limited. Benzodiazepinium salts and process for preparing the same. 3,696,094, 10-3-72, Cl. 260-239.30d.
Tachikawa, Takuji; Ohgoshi, Akio; Yoshida, Susumu; Nakayama, Akira; and Ishii, Eiji, to Sony Corporation. Grid structure for color picture tubes. 3,638,063, 1-25-72, Cl. 313-348.
Tack, Carl E., to Amsted Industries Incorporated. Articulated car auxiliary center bearing. 3,635,168, 1-18-72, Cl. 105-4.
Tack, Carl E.; and Rodgers, Loyal J., to Amsted Industries Incorporated. Articulated railroad car connection. 3,646,604, 2-29-72, Cl. 105-4.
Tacke, Peter; Binsack, Rudolf; and Weissel, Oskar, to Farbenfabriken Bayer Aktiengesellschaft. 2,2',4,4'-Tetrachloro-5,5'-diamino-diphenyl ether. 3,673,123, 6-27-72, Cl. 260-571.000.
Tackett, Raymond W., to Burroughs Corporation. Luminous gas alphanumeric display device. 3,673,451, 6-27-72, Cl. 313-109.500.
Tackle and Gear, Inc.: *See—*
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Tacquet, Maurice: *See—*
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T.A.D. Avanti, Inc.: *See—*
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Tada, Fusao; Inamine, Seiei; and Hatanaka, Tsutomu, to Sakai Chemical Industry Co., Ltd. Process for manufacturing trialkyl phosphites. 3,674,897, 7-4-72, Cl. 260-976.000.
Tada, Haruhiko: *See—*
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Tada, Kiyoyuki, to Sanyo Electric Co., Ltd. Information output system. 3,662,346, 5-9-72, Cl. 340-172.500.
Tada, Shoji: *See—*
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Tada, Tetsuya. Hand sprayer. 3,701,478, 10-31-72, Cl. 239-333.000.
Tada, Yasuo. Graphic display. 3,659,282, 4-25-72, Cl. 340-324.00a.
Tada, Yoshiharu; and Sawada, Minoru, to Diesel Kiki Kabushiki Kaisha. Electronic governer for fuel-injection type internal combustion engines. 3,695,242, 10-3-72, Cl. 123-102.000.
Tadahira, Kenich; and Kojima, Jiro, to Taisei Kensetsu Kabushiki Kaisha. Device for tightening a nut and bolt assembly. 3,633,446, 1-11-72, Cl. 81-57.46.
Tadashi, Ito: *See—*
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Taddei, Carlo, to Seal Spout Europe S.p.A. Machine for applying pouring spouts to containers. 3,673,663, 7-4-72, Cl. 29-200.00a.
Taddei, Romano, to Olivetti, Ing., C., & C., S.p.A. Electronic recirculating stores. 3,634,832, 1-11-72, Cl. 340-172.5.
Taddei, Romano, to Olivetti, Ing. C., & C., S.p.A. Accounting machine processor. 3,689,893, 9-5-72, Cl. 340-172.500.
Tadeda Chemical Industries, Ltd.: *See—*
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Tadie, Andre Francis. Motion-pictures projection device. 3,694,060, 9-26-72, Cl. 352-14.000.
Tadini, Costantino: *See—*
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Tadokoro, Tomoo, to Toyo Kogyo Co., Ltd. Reactor for internal combustion engine. 3,653,205, 4-4-72, Cl. 60-29.
Tadokoro, Tomoo; Hayashida, Motoyuki; and Yoshimura, Shigetake, to Toyo Kogyo Co., Ltd. Exhaust gas purification system for internal combustion engine. 3,657,893, 4-25-72, Cl. 60-289.
Tadokoro, Tomoo, to Toyo Kogyo Co., Ltd. Reactor. 3,703,083, 11-21-72, Cl. 60-322.000.

Tadokoro, Toyotoshi, to Furubayashi Kogyo Kabushiki Kaisha. Method and apparatus for forming valve bodies. 3,681,960, 8-8-72, Cl. 72-61.000.

Taeger, Joachim, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Device for cleaning magnetic filters. 3,631,985, 1-4-72, Cl. 210-222.

Tafapolsky, Bernard, to Gillette Company, The. Processes for sharpening razor blades. 3,696,013, 10-3-72, Cl. 204-129.550.

Tafel, Leonard I., to North American Rockwell Corporation. Cooling roll. 3,633,663, 1-11-72, Cl. 165-89.

Tafel, Leonard I., to North American Rockwell Corporation. Registry mechanism for printing units. 3,641,933, 2-15-72, Cl. 101-181.

Tafel, Leonard I., to North American Rockwell Corporation. Means for oscillating and silencing a ductor roller in a printing press. 3,698,313, 10-17-72, Cl. 101-350.000.

Tafel, Leonard Immanuel, to Miehle-Goss-Dexter, Incorporated. Drive and interrupter arrangement for rotary offset press. 3,633,503, 1-11-72, Cl. 101-218.

Taft, David D., to Ashland Oil, Inc. Method for preparing a water-dispersible acrylic copolymer. 3,661,827, 5-9-72, Cl. 260-29.6mn.

Taft, William G., to Westinghouse Electric Corporation. Hydrostatic reactor cavity seal. 3,633,784, 1-11-72, Cl. 220-13.

Tag-A-Tron, Inc., mesne: *See—*
Kono, Harry W., 3,651,503.

Taga, Jun. Method for extruding into cavities defined by a fixed plates and moving metal molds a foamable on non-foamable thermoplastic polymeric resin. 3,689,612, 9-5-72, Cl. 264-48.000.

Taga, Koji; and Noguchi, Masahiko, to Konoshima Chemical Co., Ltd. Manufacturing method for high purity synthetic cryolite from crude wet process phosphoric acid. 3,676,061, 7-11-72, Cl. 23-88.000.

Taga, Koji; and Noguchi, Masahiko, to Konoshima Chemical Co., Ltd. Manufacturing method for pure synthetic cryolite. 3,676,062, 7-11-72, Cl. 23-88.000.

Tagawa, Hazime, to Matsushita Electronics Corporation. Glow discharge tube for code display. 3,641,383, 2-8-72, Cl. 313-109.5.

Tagawa, James M.: *See—*
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Tagawa, James M.; and Tiao, Hui-Li, to International Business Machines Corporation. Cassette driven by either vacuum bins or pinch rollers. 3,706,979, 12-19-72, Cl. 340-174.10c.

Tagawa, Katuhiro, to Nissan Motor Company, Limited. Liquefied fuel gas container. 3,659,742, 5-2-72, Cl. 220-86.00r.

Tagawa, Takao, to Sharp Kabushiki Kaisha. Electrostatic printing apparatus. 3,673,599, 6-27-72, Cl. 346-74.0cr.

Tagaya, Koozoo: *See—*
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Taggart, George. Swivel sectioned building wall. 3,645,053, 2-29-72, Cl. 52-65.

Taggart, Raymond: *See—*
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Taggart, William J.: *See—*
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Tagliafico, Giovan Battista; and Grazzini, Ferdinando, to Minnesota Mining and Manufacturing Company. Solarization of silver halide photographic emulsions. 3,647,458, 3-7-72, Cl. 96-45.2.

Taglieber, Kurt: *See—*
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Tagnon, Luc Andre, to Societe des Lunetiers, Societe en Commandite simple a Capital Variable. Device for holding and clamping an optical lens on an edging machine. 3,631,637, 1-4-72, Cl. 51-237.

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Tago, Satoshi, to Mitsubishi Petrochemical Co., Ltd. Process for the production of synthetic resin pipes. 3,700,764, 10-24-72, Cl. 264-273.000.

Taguchi, Kazuo; and Tsuchida, Hiroaki, to Tokyo Shibaura Electric Co., Ltd. Three-phase bus system and interconnecting member. 3,701,929, 10-31-72, Cl. 317-103.000.

Taguchi, Kikuo: *See—*
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Taguchi, Naoyoshi. Gas detecting element and method of making it. 3,644,795, 2-22-72, Cl. 317-230.

Taguchi, Naoyoshi. Gas detecting element and method of manufacturing same. 3,676,820, 7-11-72, Cl. 338-34.000.

Taguchi, Naoyoshi. Gas detecting device. 3,695,848, 10-3-72, Cl. 23-254.00e.

Taguchi, Ryusuke: *See—*
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Taguchi, Tatsuya, to Canon Kabushiki Kaisha. Interlocking device for the exposure meter in a camera. 3,677,149, 7-18-72, Cl. 95-10.00c.

Taguchi, Youichi; and Asano, Shinji, to Toyo Plywood Co., Ltd. Facing plywood having printed grain. 3,640,797, 2-8-72, Cl. 161-60.

Tahara, Tadasu: *See—*
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Tahara, Takasi: *See—*
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Taiheiyo Kinoku Kabushiki Kaisha Co., Ltd.: *See—*
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Taiho Kogyo Co., Ltd.: *See—*
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Taillon, John Kellner, to Bell & Howell Company. Control system. 3,690,750, 9-12-72, Cl. 352-124.000.

Tailor, John P. Gas cleaning process. 3,687,630, 8-29-72, Cl. 423-242.000.

Taima, Susumu; and Nozaki, Saiji, to Nippon Carbide Kogyo Kabushiki Kaisha. Shaping composition of chlorinated polyvinyl chloride having improved heat coloration. 3,646,163, 2-29-72, Cl. 260-876.

Taira, Akio, to Olympus Optical Co., Ltd. Wide angle flat field microscopic objective of low power. 3,647,282, 3-7-72, Cl. 350-225.

Taira, Yasunori, to Tokyo Giken Kogyo Kabushiki Kaisha. Cold-working plastic bending machine. 3,704,616, 12-5-72, Cl. 72-167.000.

Taisei Kensetsu Kabushiki Kaisha: *See—*
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Taiseki, Kunugi: *See—*
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Taisho Pharmaceutical Ltd.: *See—*
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Tait, John B., to International Business Machines Corporation. Time sensed static beam holographic storage system. 3,669,521, 6-13-72, Cl. 350-3.500.

Tait, Thomas. Vegetable processing machine. 3,646,978, 3-7-72, Cl. 146-83.

Tait, Thomas Theodore. Method and apparatus for producing aseptically packaged sterile articles. 3,634,997, 1-18-72, Cl. 53-127.

Taits, Samuil Zalmanovich: *See—*
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Taiyo Kogyo Company Limited: *See—*
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Sakamoto, Junzo; Nozaki, Tadashi; Tsuji, Yoshifumi; and Shimada, Masaharu, 3,672,561.

Taiyo Seiki Co., Ltd.: *See—*
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Taiyo Yuden Kabushiki Kaisha: *See—*
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Takimoto, Hisao: *See—*
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Takimoto, Syozo. Marine propulsion device. 3,677,217, 7-18-72, Cl. 115-31.000.
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Takizawa, Kinichi. Method of manufacturing carpets. 3,635,257, 1-18-72, Cl. 139-116.5.
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Takriti, Nassir; Quoos, Kurt; Leifeld, Ferdinand; and Appenzeller, Valentin, to Textilausruestungs-Gesellschaft Schroers & Co. Apparatus to pattern and to dye single colored textiles, expecially carpets, with different colors or tones. 3,683,649, 8-15-72, l. 68-5.00d.
Taks, Gerardus J. J. M.: *See—*
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Talalay, Anselm: *See—*
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Talavera, Jorge Cervantes: *See—*
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Talbert, David Godwin, to S.E. Laboratories(Holdings) Limited. Oscilloscopes utilizing video signals to modulate the beam with varying deflection periods. 3,648,098, 3-7-72, Cl. 315-26.
Talbert, David V., to National Semiconductor Corporation. Lateral transistor structure and method of making the same. 3,651,565, 3-28-72, Cl. 29-590.
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Talbot, Meldon L.; and Foster, Theodore T., to Syntex Corporation. Dicyclopentadienyl iron compounds. 3,673,232, 6-27-72, Cl. 260-439.0cy.
Talbott, George Robert: *See—*
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Talbott, Michael M.: *See—*
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Horn, Fordyce H.; Porter, Joseph W.; and Talento, Joseph L., 3,663,775.
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Talento, Joseph L., to General Electric Company. Contact structure for an electric circuit breaker. 3,686,456, 8-22-72, Cl. 200-166.00c.
Talge, Henry J.; McNair, Samuel L.; and Litman, Marvin W., to Songrand Corporation, The. Apparatus for heating and conditioning hair curling rollers. 3,654,428, 4-4-72, Cl. 219-288.
Talgo, Paul, to Fuller Company. Kiln seal. 3,700,220, 10-24-72, Cl. 263-32.00r.
Talibdzhanov, Zakhidzhan Sadykdzhanovich: *See—*
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Tall, Murry. Burglar and fire alarm system. 3,653,022, 3-28-72, Cl. 340-274.
Tallarico, Robert A.; and Goff, Don L. Suspendible sleeping cocoon. 3,675,256, 7-11-72, Cl. 5-120.000.
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Tallegas, Francois, to C.I.T.-Compagnie Industrielle des Telecommunications and Societe Lannionnaise d'Electronique. Connecting network arrangement for time switching. 3,676,855, 7-11-72, Cl. 340-172.500.
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Talley, Thomas W.; and Talley, Thomas M. Film washing device. 3,635,143, 1-18-72, Cl. 95-97.
Talley, Walter J., Jr., to Sweco, Inc. Wastewater concentration with plural distributors. 3,707,235, 12-26-72, Cl. 210-377.000.
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Talley, William A., Jr., to Mobil Oil Corporation. Method and apparatus for reentry of subsea wellheads. 3,638,722, 2-1-72, Cl. 166-.5.
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Talley, William A., Jr., to Mobil Oil Corporation. Apparatus for treating drill cutting at offshore locations. 3,688,781, 9-5-72, Cl. 134-56.00r.
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Talmadge, Arthur. Record rack. 3,647,074, 3-7-72, Cl. 211-40.
Talmage, Charles Robert, to New Britain Machinery Company. Force-applying tools. 3,668,951, 6-13-72, Cl. 81-121.00r.
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Talonn, Daniel A., to Sherwood Medical Industries Inc. Slope calculator. 3,650,466, 3-21-72, Cl. 235-61.
Talonn, Daniel A.; and Stumpf, Marvin D., to Sherwood Medical Industries Inc. Spirometer. 3,653,374, 4-4-72, Cl. 128-2.08.
Talvalkar, Shashikant G.: *See—*
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Talwani, Manik, to United States of America, Navy, mesne. Off-leveling computer. 3,633,003, 1-4-72, Cl. 235-150.25.
Tam, George M., to Bendix Corporation, The. Combination warning switch and proportioning valve. 3,661,426, 5-9-72, Cl. 303-6.
Tam, William A., to Chicago Bridge & Iron Company. Dynamic fendering system. 3,688,729, 9-5-72, Cl. 114-230.000.
Tam, William A., to Chicago Bridge & Iron Company. Stable offshore structures. 3,690,108, 9-12-72, Cl. 61-46.000.
Tamada, Akihiro: *See—*
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Tamai, Akira: *See—*
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Tamai, Isamu; Oyama, Minoru; Osakada, Atsushi; and Shinohara, Yasuo, to Toray Industries, Inc. Modified cellular particle and process for the production thereof. 3,655,542, 4-11-72, Cl. 204-159.2.
Tamai, Tasuo, to Fuji Photo Film Co., Ltd. Method for forming dye image using an electrophotographic developer containing a gelatin toner. 3,654,865, 4-11-72, Cl. 101-463.
Tamai, Yasuo: *See—*
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Tamai, Yasuo, to Fuji Photo Film Co., Ltd. Process for coating zinc oxide powder with cadmium sulfide. 3,634,333, 1-11-72, Cl. 252-501.
Tamai, Yasuo; Matsumoto, Seiji; and Honjo, Satoru, to Fuji Photo Film Co., Ltd. Electrophotographic reversal developing process. 3,655,419, 4-11-72, Cl. 117-17.5.
Tamai, Yasuo; Osada, Chiaki; Ono, Hisatake; and Honjo, Satoru, to Xerox Corporation. Electrophotographic plate and process employing inorganic photoconductive material with a photochromic sensitizing agent. 3,660,086, 5-2-72, Cl. 96-1.7.

Tamai, Yasuo; Takimoto, Masaaki; and Miyatuka, Hajime, to Fuji Photo Film Co., Ltd. Manufacturing process for manufacturing electrophotographic sensitive material. 3,661,572, 5-9-72, Cl. 96-1.7.

Tamai, Yasuo; and Honjo, Satoru, to Fuji Shashin Film Kabushiki Kaisha. Method of producing electrophotographic liquid developers having very fine coloring material. 3,668,126, 6-6-72, Cl. 252-62.1.

Tamai, Yasuo; and Honjo, Satoru, to Fuji Photo Film Co., Ltd. Method of manufacturing bases for electrostatic recording material or electrophotographic material. 3,672,988, 6-27-72, Cl. 117-215.000.

Tamai, Yasuo; and Miyazuka, Hajime, to Fuji Photo Film Co., Ltd. Process for producing photoconductive layer for electrophotography. 3,674,476, 7-4-72, Cl. 96-1.800.

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Tamai, Yasuo; and Honjo, Satoru, to Fuji Photo Film Co., Ltd. Process for the production of electrophotographic developer containing gelatin. 3,682,825, 8-8-72, Cl. 252-62.100.

Tamai, Yasuo; and Honjo, Satoru, to Fuji Photo Film Co., Ltd. Process for developing electrostatic latent image and liquid developer used therefor. 3,692,523, 9-19-72, Cl. 96-1.400.

Tamai, Yasuo; Sato, Masamichi; Matsumoto, Seiji; and Honjo, Satoru, to Fuji Photo Film Co., Ltd. Developing method for electrophotography. 3,703,400, 11-21-72, Cl. 117-37.0le.

Tamaki, Toshio: *See—*
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Tamaru, Kenai; Onishi, Takaharu; and Soma, Mitsuyuki, to Tokyo University. Ammonia synthesis catalyst. 3,660,028, 5-2-72, Cl. 23-198.

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Tamate, Tokutaro; Yagi, Eiichi; and Ikeda, Hisayuki, to Kabushikikaisha Yokogawa Denki Seisakusho. Apparatus for measuring pH. 3,677,925, 7-18-72, Cl. 204-195.00r.

Tambini, Angelo Luigi Alfredo, to Imperial Chemical Industries Limited. Crimping of yarn. 3,636,149, 1-18-72, Cl. 264-40.

Tamboise, Maurice P.: *See—*
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Tamburro, Robert J.; and Ohanian, Ronald N. Tamperproof serial number. 3,707,300, 12-26-72, Cl. 283-8.000.

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Tami, Joseph, Jr. Electrolytic transistor with collector in base-emitter current path. 3,701,930, 10-31-72, Cl. 317-230.000.

Tamigaga, Hiroshi. Material cutting machine. 3,636,808, 1-25-72, Cl. 83-514.

Tamkin, Michael S.: *See—*
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Tammela, Viljo; and Turunen, Olli, to Neste Oy. Method for manufacturing partially acylated regenerated cellulose foil or fibre. 3,649,341, 3-14-72, Cl. 117-118.

Tammes, Hans: *See—*
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Tamol, Ronald A.; and Meyer, Leo F., to Morris, Philip, Incorporated. Film covering for apertured smoking product wrapper. 3,699,973, 10-24-72, Cl. 131-15.00b.

Tamol, Ronald A.; and Meyer, Leo F., to Morris, Philip, Incorporated. Chemically modified film covering for apertured smoking product wrapper. 3,705,588, 12-12-72, Cl. 131-15.00b.

Tampax Incorporated: *See—*
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Tamplen, Jack W. Locking device and method and apparatus for emplacing same. 3,670,821, 6-20-72, Cl. 166-315.000.

Tamplen, Jack W. Reversible arming method and apparatus for emplacing a locking device in tubing. 3,677,346, 7-18-72, Cl. 166-315.000.

Tamplen, Jack W. Relative three body motion positioning apparatus employing driving and driven slots. 3,703,104, 11-21-72, Cl. 74-88.000.

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Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov Nikolai Nikolaevich; Purmalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and rits, Leonid Borisovich, 3,683,683.
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Tarbell, Harlan E.; Mogg, Donald W.; and Shea, Frederick L., to Grefco, Inc. Roof insulation adhesive. 3,644,240, 2-22-72, Cl. 260-4.
Tarbet, Cecil Sidney Charles, to Cecil Instruments Limited. Stepping device for rotating the table of a sample changing equipment. 3,686,960, 8-29-72, Cl. 74-1.500.
Tarbet, Cecil Sidney Charles, to Cecil Instruments Limited. Carrier for an individual sample cell. 3,692,416, 9-19-72, Cl. 356-244.000.
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Tarbox, John W.; Hinds, Walter E.; and Castro, Rodolfo, to Hughes Aircraft Company. System for ordered dispensing of wire and the like. 3,699,630, 10-24-72, Cl. 29-203.0mw.
Tarcici, Adnan S. Solar heating devices. 3,643,648, 2-22-72, Cl. 126-270.
Tardiff, Armand L.: *See—*
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Tardoskegyi, Louis V., to Electrovert Manufacturing Co., Ltd. Wave soldering using inert gas to protect pretinned and soldered surfaces of relatively flat workpieces. 3,705,457, 12-12-72, Cl. 29-494.000.
Tarducci, Tullio; Gatti, Alvaro; and Buffa, Antonio. Folding bags to be used in shopping having collapsible wheels, and capable to be reduced to a hand-bag. 3,701,541, 10-31-72, Cl. 280-37.000.
Tarhan, Mehmet Orhan, to Bethlehem Steel Corporation. Methanol synthesis. 3,689,575, 9-5-72, Cl. 260-632.00r.
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Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., 3,700,422.
Tarmann, Bruno; and Vonbank, Heinrich, to Gebr. Bohler & Co. Aktiengesellschaft, Firma. Apparatus for manufacturing stretch-formed products of high-melting metals. 3,650,314, 3-21-72, Cl. 164-270.
Tarmann, Bruno; and Vonbank, Heinrich, to Gebr. Bohler & Co. Aktiengesellschaft. Improvements in or relating to processes of manufacturing rolled stock from products of continuous casting processes. 3,680,623, 8-1-72, Cl. 164-76.000.
Tarnblom, Stig-Goran Harry: *See—*
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Tarneja, Krishan S.; Rossi, Vito A.; and McNally, James B., to Westinghouse Electric Corporation. Phosphorus diffusion technique. 3,666,574, 5-30-72, Cl. 148-188.
Tarney, Robert Edward; and Verbanc, John J., to Du Pont de Nemours, E. I., and Company. Synthetic hydrocarbon elastomers having improved building tack. 3,657,203, 4-18-72, Cl. 260-5.
Tarnoff, Sherwin S., to Air Balance, Inc., mesne. Combined ventilating louver and back draft damper. 3,682,084, 8-8-72, Cl. 98-110.000.

Tarnopol, Milton S.; and Snyder, Thomas P., to PPG Industries, Inc. Applying electroconductive heating circuits to glass. 3,671,311, 6-20-72, Cl. 117-211.000.

Tarnopol, Milton S.; and Snyder, Thomas P., to PPG Industries, Inc. Applying electroconductive heating circuits to glass electroplating. 3,703,445, 11-21-72, Cl. 204-15.000.

Tarr, William A., to Sarkes Tarzian, Inc. Linear sawtooth scan generator utilizing negative feedback and Miller integration. 3,646,393, 2-29-72, Cl. 315-27.

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Tarrant, Fred K., Jr.: *See—*
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Tarrant Manufacturing Company: *See—*
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Tarry, Robert James; Kriellaars, Johannes C.; and Lord, Ronald D., to Cae Industries Ltd. Capacitive moisture measurement. 3,681,685, 8-1-72, Cl. 324-61.000.

Tarshis, Lemuel A.; and Walker, James L., to General Electric Company. Grain size of metal castings. 3,690,874, 9-12-72, Cl. 75-170.000.

Tarshis, Lemuel A.; Walker, James L.; and Berry, Thomas F., to General Electric Company. Superalloy segregate braze. 3,696,500, 10-10-72, Cl. 29-487.000.

Tartaglia, John. Tailpiece for stringed musical instruments. 3,688,630, 9-5-72, Cl. 84-302.000.

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Tarter, Carl M., to T & W Manufacturing Corporation. Spark plug hole construction and method. 3,683,873, 8-15-72, Cl. 123-41.820.

Tartter, Arnold; Luebcke, Enno; and Belde, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Green pigment dyes of the phthalocyanine series. 3,649,642, 3-14-72, Cl. 260-314.5.

Tartter, Arnold; Riedel, Guenter; and Nold, Eberhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dye nitrates. 3,682,979, 8-8-72, Cl. 260-393.000.

Tarui, Yasuo: *See—*
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Tarulli, Luigi. Reciprocating pump for concrete. 3,704,967, 12-5-72, Cl. 417-519.000.

Tarusawa, Yasutaka, to Kabushika Kaisha Suwa Seikosha. Lockable crown for waterproof watch. 3,686,883, 8-29-72, Cl. 58-90.00b.

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Tarzwell, Robert K.: *See—*
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Tasaki, Toshio; and Fukao, Keiji, to Olympus Optical Co., Ltd. Stero-microscope with illumination by specularly reflected light. 3,637,283, 1-25-72, Cl. 350-91.

Taschenberg, Ernest J., to Koppers Company, Inc. Hydrodynamic lift-type face seal. 3,640,541, 2-8-72, Cl. 277-96.

Tascher, Edward R.; and Koenig, Elmer A., to Sherwood Medical Industries Inc. Syringe filling apparatus. 3,662,517, 5-16-72, Cl. 53-282.

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Tashiro, Hiroji; and Yamaguchi, Tutomu, to Toka Shikiso Chemical Industry Co., Ltd. Epoxy resin curing agent. 3,704,229, 11-28-72, Cl. 252-182.000.

Tashiro, Isao: *See—*
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Tashiro, Kenichi; and Tanaka, Hirokazu, to Stanley Denki Kabushiki Kaisha. Light responsive and measuring device. 3,680,024, 7-25-72, Cl. 338-17.000.

Tashiro, Kijuro; and Yokoyama, Masuzo, to Mitsubishi Petrochemical Co., Ltd. Catalytic production of olefin polymers. 3,676,418, 7-11-72, Cl. 260-88.200.

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Tassell, Kitchener B. Syringe. 3,662,753, 5-16-72, Cl. 128-218.00m.

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Tatara, Seizo; and Ohdachi, Yoshio. Car washing device. 3,693,206, 9-26-72, Cl. 15-21.00d.

Tatchell, John J., to Morganite Research & Development Limited. Manufacture of carbon filaments. 3,663,170, 5-16-72, Cl. 23-209.4.

Tatchell, Keith Reid: *See—*
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Tate, Bryce E.; and Allingham, Robert P., to Pfizer Inc. Method and compositions for inhibiting microbial growth. 3,644,635, 2-22-72, Cl. 424-283.

Tate, Bryce E.; and Berg, Rudolph G., to Pfizer Inc. Iminodisuccinic acid salts as detergent builders. 3,697,453, 10-10-72, Cl. 252-546.000.

Tate, Charles G., Jr., to Tate Manufacturing Company. Monument construction. 3,648,422, 3-14-72, Cl. 52-104.

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Tate, Gary L.; Summers, John J.; and Kramer, Joseph O., to Hamilton of Indiana, Inc. Means to sense and control speed of movement of glass sheet on gas support bed. 3,634,057, 1-11-72, Cl. 65-163.

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Tate, Jack F., to Texaco Inc. Method of and composition for the prevention of scale. 3,682,831, 8-8-72, Cl. 252-180.000.

Tate, Jack F., to Texaco Inc. Method for stimulating well production. 3,704,751, 12-5-72, Cl. 166-307.000.

Tate, John E.; Borenstein, David E.; Langley, Isaac L., Jr.; and Banning, Jack A., to Phillips Fibers Corporation. Plug metered evaporative reaction tube. 3,684,459, 8-15-72, Cl. 23-285.000.

Tate, Lawrence A., to International Business Machines Corporation. Read gating circuit for core sensing. 3,670,314, 6-13-72, Cl. 340-174.

Tate, Malcolm C.: *See—*
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Tateishi, Mataji, to Mitsubishi Jukogyo Kabushiki Kaisha. Fuel injection pump construction. 3,695,784, 10-3-72, Cl. 417-296.000.
Tateisi Electronics Co.: *See—*
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Tatematsu, Kenzo; Hosono, Hiroo; Katagiri, Toshio; Hayashi, Yoshiaki; and Ando, Hiroyuki, to Matsushita Electric Industrial Co., Ltd. Automatic answering telephone set. 3,700,818, 10-24-72, Cl. 179-6.00r.
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Tateno, Hideo; and Nemoto, Kuniharu, to Nippon Electric Company, Limited. Method of fabricating semiconductor devices having alloyed junctions. 3,671,339, 6-20-72, Cl. 148-179.000.
Tateno, Hiroshi: *See—*
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Tatsuta, Sumitaka; and Ueno, Wataru, to Fuji Photo Film Co., Ltd. Process for producing photographic materials. 3,704,154, 11-28-72, Cl. 117-34.000.
Tatsuta, Yoshio, to ISE Electronics Corporation. Switching circuit for luminous display tubes. 3,656,142, 4-11-72, Cl. 340-324.
Tatsutomi, Yasuo; and Kajihara, Yoshihiro, to Toyo Kogyo Co., Ltd. Temperature compensating connection between exhaust purifier and pipe. 3,645,092, 2-29-72, Cl. 60-29.
Tatsutomi, Yasuo; and Noma, Tetsuo, to Toyo Kogyo Co., Ltd. Device for containing and subsequently consuming the fuel vapors escaping to the atmosphere for an internal combustion engine. 3,675,634, 7-11-72, Cl. 123-136.000.
Tatsutomi, Yasuo, to Toyo Kogyo Co., Ltd. Exhaust gas recycle system for a rotary piston internal combustion engine. 3,682,151, 8-8-72, Cl. 123-119.00a.
Tatsutomi, Yasuo; and Takokoro, Tomoo, to Toyo Kogyo Co., Ltd. Control system for purifying exhaust gas of an internal combustion engine. 3,685,295, 8-22-72. Cl. 60-290.000.
Tatsutomi, Yasuo, to Toyo Kogyo Co., Ltd. System for purifying exhaust gas of an internal combustion engine. 3,704,591, 12-5-72, Cl. 60-290.000.
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Taub, William; Denss, Rolf; and Ostermayer, Franz, to Taub, William, Denss, Rolf and Ostermayer, Franz. Cyclohexenyl amines in the treatment of pain. 3,692,913, 9-19-72, Cl. 424-325.000.
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Tauber, Elisha; and Murray, Maxwell John, to Commonwealth Scientific and Research Organization. Glazing concrete. 3,640,754, 2-8-72, Cl. 117-70.
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Gerchenova, Nina Andreevna; Gurvich, Lev Moiseevich; Zelenskaya, Olga Ivanovna; Koretsky, Alexandr Filippovich; Machulsky, Petr Alexeevich; Nesterova, Maria Petrovna; Selifanova, Evdokia Prokofievna; Taubman, Arkady Borisovich; and Furaeva, Ekaterina, 3,68,099.

Taubner, Fred R.; and Chenot, Charles F., to Sylvania Electric Products, Inc. Phosphor coating for arc discharge lamps. 3,649,329, 3-14-72, Cl. 117-33.5.

Taubner, Valentine J., Jr. Flexible, linked jewelry beads. 3,685,284, 8-22-72, Cl. 59-80.000.

Tauchi, Shoji: *See—*
Itoh, Yokichi; Shirasaka, Nobuhiko; and Tauchi, Shoji, 3,661,727.
Koga, Yasushi; Kozuka, Hirotsugu; and Tauchi, Shoji, 3,682,699.

Tauchi, Shoji; Miwa, Ichiro; and Homma, Makoto, to Hitachi, Ltd. Method of manufacturing semiconductor devices. 3,707,410, 12-26-72, Cl. 148-187.000.

Tauchi, Syoji: *See—*
Nishizawa, Jun-Ichi; Sasaki, Ichiemon; Ishida, Katsuhiko; Tauchi, Syoji; Ishimura, Takeshi; Seki, Takeo; and Kozuma, Noboru, 3,634,849.

Taudien, Alfred: *See—*
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Tauern, Dankmar: *See—*
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Tauger, Mikhail Borisovich. Throttle divider of fluid medium flow. 3,674,047, 7-4-72, Cl. 137-101.000.

Taul, Everett G., to Bush Manufacturing Company. Lumber sorter. 3,631,977, 1-4-72, Cl. 209-80.

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Tausch, Gilbert H.: *See—*
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Tauschek, Max J., to TRW Inc. Method of manufacturing hard faced exhaust valves. 3,649,380, 3-14-72, Cl. 148-142.

Tauscher, Kenneth E.; Roome, Theodore F., Jr.; and Coon, David S., to Sanders Associates, Inc. Time domain modulator for spectrum shaping of pulsed waveforms. 3,699,449, 10-17-72, Cl. 325-324.000.

Taussig, Peter R.: *See—*
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Taussky, Ilona. Process of improving the quality of fats obtained during rendering or refining. 3,649,656, 3-14-72, Cl. 260-412.7.

Taut, Karl H. Modular, knock-down furniture. 3,672,739, 6-27-72, Cl. 312-107.000.

Tautz, William Paul: *See—*
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Tavano, John B. Panic door. 3,660,940, 5-9-72, Cl. 49-366.

Tavano, Joseph V., Sr. Safety construction for vehicles. 3,656,792, 4-18-72, Cl. 298-85.000.

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Taverne, Jules L., to Deere & Company. Crop conditioner with baffle of fluffer means. 3,680,290, 8-1-72, Cl. 56-1.000.

Tavernier, Bernard Hippoliet; De Meyer, Alfons Jozef; and Vanheertum, Johannes Josephus, to Gevaert-Agfa N.V. Method of improving the color tone of a recording layer containing photoconductive lead (II) oxide. 3,642,470, 2-15-72, Cl. 96-1.5.

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Tavkozlesi Kutato Intezet: *See—*
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Tavs, Peter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for preparing 4-oxaphosphorinanes. 3,663,729, 5-16-72, Cl. 260-606.5.

Tavss, Edward A.: *See—*
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Shay, Edward Griffin; and Tavss, Edward A., 3,678,173.

Tavzes, Radovan; Koron, Jelko; and Kansky, Evgen, to Institut za Elektroniko in Vakuumsko Tehniko. Miniature variable-resistance device with flexible disk contact. 3,657,690, 4-18-72, Cl. 338-154.

Tawada, Hiroyuki: *See—*
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Tawada, Hiroyuki; Meguro, Kanji; and Kuwada, Yutaka, to Takeda Chemical Industries, Ltd. Triazolo [1,5-a][1,4]benzodiazepine derivatives. 3,703,525, 11-21-72, Cl. 260-308.00r.

Tawara, Yoshiyuki: *See—*
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Tax, Barbara. Method of isolating antigens and/or antibodies from protein mixtures. 3,639,559, 2-1-72, Cl. 424-12.

Tax, Hans: *See—*
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Tax, Hans; and Franke, Rudiger, said Franke assor. to said Tax, Hans. Straddle truck for containers. 3,688,931, 9-5-72, Cl. 214-394.000.

Taxil, Andre Marc Victorin: *See—*
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Taylor, Alastair Charles, to Otis Elevator Company. Handrail driving assembly for belt type moving passenger conveyors. 3,653,484, 4-4-72, Cl. 198-16.

Taylor, Alfred E. Flexible molding strip and method of making same. 3,706,173, 12-19-72, Cl. 52-716.000.

Taylor, Allen R., to Singer Company, The, mesne. Antenna. 3,665,476, 5-23-72, Cl. 343-701.000.

Taylor, Arthur Sinclair; and Sandhage, Ellsworth Roland, to Perry Industries, Inc., mesne. Powder filling machine and method. 3,656,517, 4-18-72, Cl. 141-1.

Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William, to American Cyanamid Company. Sterile container filling mechanism. 3,698,450, 10-17-72, Cl. 141-85.000.

Taylor, Beverly W., to Steven Manufacturing Co. Bingo marking board. 3,689,072, 9-5-72, Cl. 273-135.0bc.

Taylor, Billy W. Resealable test tube. 3,705,018, 12-5-72, Cl. 23-292.000.

Taylor, Brian; and Parry, Philip James, to International Nickel Company, Inc., The. Heat treatment of high chromium alloys to improve ductility. 3,640,777, 2-8-72, Cl. 148-13.

Taylor, Brian Leslie: *See—*
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Taylor, Brian William: *See—*
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Taylor, Carl C., to Rochester Gauges, Inc. Liquid level gauge and valve. 3,688,795, 9-5-72, Cl. 137-558.000.

Taylor, Carl S.: *See—*
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Taylor, Cecil I., to Hartridge, Leslie, Limited. Machine for machining internal surfaces of workpieces. 3,686,797, 8-29-72, Cl. 51-34.00r.

Taylor, Cecil Isaac. Rotary tool drive member. 3,692,319, 9-19-72, Cl. 279-1.00c.

Taylor, Cecil R. Putting practice device. 3,690,674, 9-12-72, Cl. 273-176.00g.

Taylor, Charles F., to Vermont Technical Group, Inc. Analog converter and computer circuit producing optimized pulse output. 3,659,288, 4-25-72, Cl. 340-347.

Taylor, Chester E.: *See—*
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Taylor, Clarence R. Safety closure for a container. 3,656,646, 4-18-72, Cl. 215-9.

Taylor, Clarence Reynold, to Eastman Kodak Company. Apparatus for cleaning a residual image from a photosensitive member. 3,706,108, 12-19-72, Cl. 15-1.500.

Taylor, Clement R.: *See—*
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Taylor, Clinton A., to General Motors Corporation. Bearing seal assembly. 3,658,396, 4-25-72, Cl. 308-187.2.

Taylor, Clyde L. Agricultural apparatus for shaped beds. 3,661,213, 5-9-72, Cl. 172-72.

Taylor, David John, to Sykes-Pickavant Limited. Pressure testing device. 3,680,361, 8-1-72, Cl. 73-49.200.

Taylor, David Johnston: *See—*
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Taylor, David Robin: *See—*
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Taylor, David Shaw: *See*—
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Taylor, Earl Richard, Jr., to Du Pont de Nemours, E. I., and Company. Removal of dissolved organic lead from aqueous alkyl lead process effluents. 3,697,567, 10-10-72, Cl. 260-437.00r.
Taylor, Edward B.: *See*—
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Taylor, Edward C.; and McKillop, Alexander. Aromatic bromination process. 3,689,559, 9-5-72, Cl. 260-562.00r.
Taylor, Elmer N., to Hughes Aircraft Company. Noise suppressor for surveillance and intrusion detecting system. 3,641,257, 2-8-72, Cl. 178-6.8.
Taylor, Eugene D.: *See*—
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Taylor, Eugene D.; and Swisher, Willis R., said Swisher assor. to said Taylor, Eugene D. Apparatus for rotating valves on gas cylinders. 3,635,104, 1-18-72, Cl. 81-3.
Taylor, Floyd R.; and Whitaker, Robert B. Electrically operated bingo game apparatus. 3,671,041, 6-20-72, Cl. 273-135.00a.
Taylor, Francis M., to Systems Research Laboratories, Inc. Vortex tube laser. 3,646,475, 2-29-72, Cl. 331-94.5.
Taylor, Francis R.: *See*—
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Taylor, Francis R.; Leader, Patricia J.; and Westerdahl, Raymond P., to United States of America, Army. Pyrotechnic composition. 3,664,898, 5-23-72, Cl. 149-41.
Taylor, Frank. Decorative wall facing. 3,701,228, 10-31-72, Cl. 52-309.000.
Taylor, Frank F.: *See*—
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Taylor, Frank H.; and Kelly, Warner M., to Otis Engineering Corporation. Safety valve system for gas lift wells. 3,642,070, 2-15-72, Cl. 166-314.
Taylor, Frederick A. Motor driven ice vehicle. 3,669,201, 6-13-72, Cl. 180-6.00r.
Taylor, Frederick M., to Boeing Company, The. V/STOL aircraft with variable tilt wing. 3,666,209, 5-30-72, Cl. 244-7.00c.
Taylor, Fredrick J., to Texas Instruments, Incorporated. Synthesized cascaded processor system. 3,700,866, 10-24-72, Cl. 235-150.100.
Taylor, Fredrick James; and Choate, William C., to Texas Instruments, Incorporated. Trainable entropy system. 3,702,986, 11-14-72, Cl. 340-172.500.
Taylor Garage Doors, Inc.: *See*—
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Taylor, Geoffrey Gordon, to Fruitgrowers Chemical Company Limited. Granules comprising inert cores coated with an absorbent powder. 3,672,945, 6-27-72, Cl. 117-100.00b.
Taylor, George F. Food processing apparatus. 3,695,273, 10-3-72, Cl. 130-30.00g.
Taylor, George G. Trading stamp invalidating apparatus and method of using. 3,702,920, 11-14-72, Cl. 219-406.000.
Taylor, George William: *See*—
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Taylor, George William, to RCA Corporation. Light modulator and display device. 3,703,332, 11-21-72, Cl. 350-160.00r.
Taylor, George Wright; and Wood, Derek Harold, to Imperial Chemical Industries Limited. Alkyl diesters of 3,5-dialkyl-4-hydroxyphenylalkanoic acid. 3,639,447, 2-1-72, Cl. 260-473.
Taylor, Glen A., to Reynolds Metals Company. Method of soldering aluminous component. 3,633,266, 1-11-72, Cl. 29-488.
Taylor, Glenn Edward. Vehicle transport. 3,690,717, 9-12-72, Cl. 296-1.00a.
Taylor, Glenn L.; Cotton, John W.; and Winkler, De Loss E., to Shell Oil Company. Blend of block copolymer, one of which is epoxidized. 3,699,184, 10-17-72, Cl. 260-836.000.
Taylor, Glenn N., to Kendall Company, The. Catheter with valved fluid reservoir. 3,675,658, 7-11-72, Cl. 128-349.0bv.
Taylor, Glenn N., to Kendall Company, The. Neck closing smock or gown. 3,689,939, 9-12-72, Cl. 2-114.000.
Taylor, Glenn N., to Kendall Company, The. Smock or gown with adjustable belt. 3,696,443, 10-10-72, Cl. 2-114.000.
Taylor, Guy A., to Sanford Research Company. Plug and barrel assembly for marking device. 3,659,953, 5-2-72, Cl. 401-198.000.
Taylor, Guy A., to Sanford Research Company. Plastic container with threaded mouth strengthening closure means. 3,707,241, 12-26-72, Cl. 215-43.00a.
Taylor, Harold L.: *See*—
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Taylor, Jack G.; and Gallo, Mario S., to Globe Illumination Company. Lighting fixtures. 3,681,596, 8-1-72, Cl. 240-147.000.
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Taylor, Jack R., to General Electric Company. Folded flow combustion chamber for a gas turbine engine. 3,631,674, 1-4-72, Cl. 60-39.36.
Taylor, Jack R., to General Electric Company. Fuel delivery apparatus. 3,667,221, 6-6-72, Cl. 60-39.74r.
Taylor, Jack William: *See*—
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Taylor, James R. A.; and Chambers, William A., to Continental Can Company, Inc. Method and apparatus for electrostatically charging particles for printing or coating. 3,635,157, 1-18-72, Cl. 101-114.
Taylor, James W., to United States of America, Navy. Pressure balanced electrical assemby. 3,633,155, 1-4-72, Cl. 339-117.
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Taylor, John D. Wire reeling device. 3,642,224, 2-15-72, Cl. 242-86.61.
Taylor, John D. Portable windbreak. 3,648,980, 3-14-72, Cl. 256-12.5.
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Taylor, John H.; and Pellman, Robert C. Knot winder for tying fish hooks. 3,667,790, 6-6-72, Cl. 289-17.000.
Taylor, John Harry; and Harris, Roger Stephen, to Electric & Musical Industries Limited. Frequency divider circuits. 3,644,834, 2-22-72, Cl. 328-46.
Taylor, John R. Fishing rod mount. 3,655,155, 4-11-72, Cl. 248-38.000.
Taylor, John W., Jr., to United States of America, Air Force. Digital motion compensation system for radar. 3,706,989, 12-19-72, Cl. 343-7.00a.
Taylor, Joseph David Foulkes: *See*—
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Taylor, Keith M., to Monsanto Company. Amloxidation of saturated hydrocarbons. 3,670,008, 6-13-72, Cl. 260-465.300.
Taylor, Keith M., to Monsanto Company. Ammoxidation of saturated hydrocarbons. 3,670,009, 6-13-72, Cl. 260-465.300.
Taylor, Keith M., to Monsanto Company. Ammoxidation of saturated hydrocarbons. 3,678,090, 7-18-72, Cl. 260-465.300.
Taylor, Keith M., to Monsanto Company. Ammoxidation of saturated hydrocarbons. 3,686,267, 8-22-72, Cl. 260-465.300.
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Taylor, Kenneth William: *See—*
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Taylor, Kirman, to Du Pont de Nemours, E. I., and Company. Electroless nickel plating process for nonconductors. 3,684,572, 8-15-72, Cl. 117-47.00a.

Taylor, Larry Christopher, to Pennwalt Corporation. Refrigerant recovery system. 3,699,781, 10-24-72, Cl. 62-474.000.

Taylor, Larry H.: *See—*
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Taylor, Larry H.; Porter, William D.; Anderson, William J.; and Caneer, Ralph A., to Northrop Carolina, Inc. Winding apparatus. 3,697,007, 10-10-72, Cl. 242-18.0dd.

Taylor, Laurence William; Town, Frank; and Omiotek, Emil, to Dobson, W. E. & F., Limited. Mine roof supporting means. 3,631,681, 1-4-72, Cl. 61-45.

Taylor, Lawrence B.; Bentz, Raymond L.; and Porter, Robert B., to United States of America, Navy. Carbon monoxide burner for undersea habitats. 3,706,535, 12-19-72, Cl. 23-288.000.

Taylor, Leonard: *See—*
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Taylor, Leonard, to Smith & Wesson Pyrotechnics, Inc. Striker mechanism. 3,665,630, 5-30-72, Cl. 42-12.000.

Taylor, Lewis A., to Enterprise Machine and Development Corporation. Yarn handling apparatus. 3,675,623, 7-11-72, Cl. 118-423.000.

Taylor, Lloyd D.: *See—*
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Taylor, Lloyd D., to Polaroid Corporation. Tetrahydro 1,3-oxazinium compounds. 3,694,439, 9-26-72, Cl. 260-244.00r.

Taylor, Lloyd D., to Polaroid Corporation. Microscopic capsules and process of making same. 3,702,829, 11-14-72, Cl. 252-316.000.

Taylor Lock Company: *See—*
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Taylor, Louis Dale. Apparatus for transporting heavy objects. 3,655,218, 4-11-72, Cl. 280-179.

Taylor, Lowell M. Teaching aid. 3,654,711, 4-11-72, Cl. 35-66.

Taylor, Lytton: *See—*
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Taylor Machine Works: *See—*
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Taylor Manufacturing Company: *See—*
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Taylor, Michael David: *See—*
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Taylor, Michael P., to Fiber Industries, Inc. Flange false twist textured nylon. 3,695,026, 10-3-72, Cl. 57-140.00r.

Taylor, Miller; and Davis, Dewey R. Fairway tool bar cutter. 3,643,747, 2-22-72, Cl. 172-657.

Taylor, Monroe F., to Grace, W. R., & Co. Device for continously sealing and severing edges of folded film. 3,660,205, 5-2-72, Cl. 156-515.000.

Taylor, Monroe F., to Grace, W. R., & Co. Sleeve wrapped package with a base. 3,675,767, 7-11-72, Cl. 206-65.00s.

Taylor, Norman J.; Mann, Joseph K.; and Atwood, Allen W., to Varian Associates. Charged particle analyzer with means to determine the coordinate position of the sample. 3,686,501, 8-22-72, Cl. 250-49.5ae.

Taylor, Otis C., to Dow Chemical Company, The. Drying chlorine. 3,655,342, 4-11-72, Cl. 23-219.

Taylor, Paul A.; and Boissevain, Thomas A., to Alden Self-Transit Systems Corporation. Transportation system. 3,643,601, 2-22-72, Cl. 104-88.

Taylor, Paul H. Fluid amplified liquid spring shocks and/or shock absorbers. 3,698,521, 10-17-72, Cl. 188-306.000.

Taylor, Percy Ronald, to Monsanto Chemicals Limited. Process for coating ceramic molds. 3,645,767, 2-29-72, Cl. 117-5.1.

Taylor, Peter J., to Plessey Company Limited, The. Backing pumps more particularly for volatile liquids. 3,632,219, 1-4-72, Cl. 415-72.

Taylor, Philip W., to Taylor Industries, Inc. Fastener installation. 3,695,499, 10-3-72, Cl. 227-52.000.

Taylor, Randolph G., to United States of America, Navy. Extreme ultraviolet radiation photometers. 3,638,059, 1-25-72, Cl. 313-93.

Taylor, Ray D.: *See—*
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Taylor, Rene A., to United States Steel Corporation. Sheet piling connectors. 3,688,508, 9-5-72, Cl. 61-62.000.

Taylor, Richard Francis, to Anglo-Transvaal Consolidated Investment Company Limited. Rotary impact rock breaking equipment. 3,695,724, 10-3-72, Cl. 299-69.000.

Taylor, Richard John: *See—*
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Taylor, Richard John, to Electric & Musical Industries Limited. Automatic signal registration in colour television cameras. 3,705,839, 12-12-72, Cl. 178-5.40m.

Taylor, Richard P., to Mead Corporation, The. Fabrication of orifices. 3,655,530, 4-11-72, Cl. 204-26.

Taylor, Richard R.; and MacKay, Frank A., to United States of America, Navy. Oscillograph recorder trace blanker apparatus. 3,702,002, 10-31-72, Cl. 346-109.000.

Taylor, Robert B., to Metropoliton Industries, Inc. Panel lift clamp assembly. 3,679,254, 7-25-72, Cl. 294-81.00r.

Taylor, Robert E.: *See—*
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Taylor, Robert Edward, to Du Pont de Nemours, E. I., and Company. Process for preparing silk-like polyester yarn. 3,705,225, 12-5-72, Cl. 264-103.000.

Taylor, Robert L.: *See—*
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Taylor, Robert S., to Hexcel Corporation. Corrosion inhibition using N-aminoalkyl phthalamides. 3,704,090, 11-28-72, Cl. 21-2.700.

Taylor, Robert Vincent; and Downs, Elizabeth. Air cushion vehicle. 3,662,852, 5-16-72, Cl. 180-117.000.

Taylor, Robert W.; and Sellers, Jerry W., to Rockwell Manufacturing Company. Power driven hand tool. 3,699,655, 10-24-72, Cl. 30-216.000.

Taylor, Roland C. Delay equalizer network including negative delay circuits. 3,673,520, 6-27-72, Cl. 333-28.00r.

Taylor, Ronald B.; and Boardman, Kerin G., to Liquid Nitrogen Processing Corporation. Free-flowing tetrafluoroethylene polymer composition and process of producing the same. 3,682,859, 8-8-72, Cl. 260-41.0ag.

Taylor, Ronald W., to GSW Limited-GSW Limitee. Instinctive wringer. 3,648,489, 3-14-72, Cl. 68-253.

Taylor, Ruel E., to Taylor, Ruel E., Inc. Method and apparatus for softness testing. 3,683,681, 8-15-72, Cl. 73-78.000.

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Taylor, William A., to General American Transportation Corporation. Support structure for tank car. 3,645,213, 2-29-72, Cl. 105-362.

Taylor, William A., to General American Transportation Corporation. Heat-insulated railway tank cars and a method of making the same. 3,653,333, 4-4-72, Cl. 105-360.

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Mookherjee, Braja D.; and Taylor, William I., 3,681,396.

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Taylor, William Paul. Molded plastic furniture construction. 3,642,323, 2-15-72, Cl. 297-456.

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Taysom, Patrick Arnold; Lewis, Brian Mark; and Kittel, Clive Francis, to International Standard Electric Corporation. Cantilevered spring pressure measurement and adjustment. 3,646,810, 3-7-72, Cl. 73-161.

Tazewell, Joseph H., to Firestone Tire & Rubber Company, The. Stabilization of polycaprolactam with a mixture of a di-substituted phenylene diamine and a tri(alkylphenyl) phosphite. 3,644,280, 2-22-72, Cl. 260-45.9.

Tchejeyan, Sarkis K.; and Repinski, James A., to General Motors Corporation. Linear optical scanning device. 3,642,343, 2-15-72, Cl. 350-6.

Tchelitcheff, Serge, to Rhone-Poulenc S.A. Flavoured and scented products. 3,644,653, 2-22-72, Cl. 424-358.

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Te Kronnie, Gerrit Hendrik; Volkers, Karel Hero; and Poulsen, Poul Albert. Position display method and device. 3,659,346, 5-2-72, Cl. 33-65.

Te Velde, Ties Siebolt, to U.S. Philips Corporation, mesne. Method of producing layers of grains particularly monolayers of grains embeded in a filler. 3,649,354, 3-14-72, Cl. 117-217.

Te Velde, Ties Siebolt; and Van Heusden, Sybrandus, to U.S. Philips Corporation. Semiconductor devices comprising a heterojunction. 3,679,496, 7-25-72, Cl. 148-188.000.

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Teach, Eugene G., to Stauffer Chemical Company. Meta-anilide urea compositions and their utility as herbicides. 3,642,891, 2-15-72, Cl. 260-553.

Teach, Eugene G., to Stauffer Chemical Company. Trifluoromethyl acylated urea carbamates. 3,670,010, 6-13-72, Cl. 260-479.00c.

Teach, Eugene G., to Stauffer Chemical Company. Bis-meta-phenylene ureas. 3,707,556, 12-26-72, Cl. 260-553.00a.

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Teagarden, Raymond E. Trailer stand for installing automobile muffler. 3,693,818, 9-26-72, Cl. 214-506.000.

Teagno, Wladimiro; and D'Urso, Gianfranco, to AMP Incorporated, mesne. Tab receptacle. 3,633,156, 1-4-72, Cl. 339-256.

Teagno, Wladimiro; and D'Urso, Gianfranco, to AMP Incorporated, mesne. Hermaphroditic connector assembly. 3,634,811, 1-11-72, Cl. 339-47.

Teagno, Wladimiro, to AMP Incorporated, mesne. Fuse unit having slidable fuse-receiving drawer. 3,648,115, 3-7-72, Cl. 317-101.

Teagno, Wladimiro; and Trevisiol, Franco, to AMP Incorporated, mesne. PCB Hinged pod connector. 3,680,035, 7-25-72, Cl. 339-59.00m.

Teague, Dwight Maxwell; Bertrand, William F.; Willson, Philip J.; and Ammermann, Frank E., to Chrysler Corporation. Extrudable refractory fibrous material. 3,667,975, 6-6-72, Cl. 106-65.000.

Teague, Ernest Douglas, to Norton Abrasives Limited. Manufacture of plaster of Paris mold having sprayed metal oxide linings and product. 3,673,293, 6-27-72, Cl. 264-60.000.

Teague, Ernest Douglas, to Johnson, Matthey & Co. Limited. Method of making metal articles. 3,689,987, 9-12-72, Cl. 29-527.200.

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Teague, Loy P., to Texaco Inc. Method and apparatus for avoiding water pollution at an offshore drilling site. 3,693,733, 9-26-72, Cl. 175-66.000.

Teague, Walter D., Jr., to Southern California Gas Co. Gas heater. 3,696,802, 10-10-72, Cl. 126-110.00b.

Teague, Walter Dorwin, Jr.; Montalbano, Anthony Philip; Oakes, Andrew A.; Osborne, Keith; and Susey, Peter E., to Columbia Gas System Service Corporation. Method and apparatus for drying laundry. 3,668,784, 6-13-72, Cl. 34-10.000.

Teal, James L.; Hamilton, Charles Eugene; and Clifford, Dennis A., to Dow Chemical Company, The. Determining the low level oxygen demand of combustible materials in aqueous dispersions. 3,679,364, 7-25-72, Cl. 23-230.0pc.

Teale, Richard William, to U.S. Philips Corporation, mesne. Device for detecting and/or recording electromagnetic radiation including an active magnetic element a parameter of which can be changed by the radiation. 3,681,602, 8-1-72, Cl. 250-83.30r.

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Teboul, Albert, to Commissariat a l'Energie Atomique. Device for feeding powdered material. 3,654,970, 4-11-72, Cl. 141-284.

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Tedeschi, Robert J.; and McMahon, Herbert C., to Air Products and Chemicals, Inc., mesne. Treatment of acetylenic glycols. 3,636,167, 1-18-72, Cl. 260-638.
Tedeschi, Robert J.; and Natali, Paul W., to Air Products and Chemicals, Inc., mesne. System for corrosion inhibition. 3,642,640, 2-15-72, Cl. 252-146.
Tedeschi, Robert J.; and Natali, Paul W., to Air Products and Chemicals, Inc., mesne. Corrosion inhibition. 3,642,641, 2-15-72, Cl. 252-148.
Tedeschi, Robert J.; and Natali, Paul W., to Air Products and Chemicals, Inc., mesne. Corrosion inhibitor mixture. 3,655,571, 4-11-72, Cl. 252-148.
Tedeschi, Robert J., to Air Products and Chemicals, Inc., mesne. Catalysts for producing acetylenic alcohols. 3,663,628, 5-16-72, Cl. 260-632.
Tedmon, Craig S., Jr.; and Spacil, Henry S., to General Electric Company. Ferrous metal substrate with dense, black glossy oxide coating and process for coating preparation. 3,639,177, 2-1-72, Cl. 148-6.3.
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Tellson, Joseph W., to General Motors Corporation. Retaining ring and cage for unit assembly of tapered bearing components. 3,694,043, 9-26-72, Cl. 308-214.000.

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Tempel, George F., to Electronic Associates Inc. Stabilized direct coupled amplifier having improved frequency response and minimun intermodulation distortion. 3,678,402, 7-18-72, Cl. 330-9.000.

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Temple, Harry F.; and Thomas, Robert L., to Phillips Petroleum Company. Analysis of gaseous mixtures. 3,650,090, 3-21-72, Cl. 55-31.

Temple, Hiram E., to Baker Perkins Inc. Bakery products handling apparatus. 3,677,393, 7-18-72, Cl. 198-85.000.

Temple, John J. Reverse angle thread system for containers. 3,640,416, 2-8-72, Cl. 215-43.

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Temple, Robert, to Mine Safety Appliances Company. Firing mechanism for explosively actuated tool. 3,665,802, 5-30-72, Cl. 89-1.

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Templeton, John Glenn; and Seitz, Calvin W., to Rospatch Corporation. Label handling system. 3,692,176, 9-19-72, Cl. 206-56.0ab.

Templeton, Leroy N., Jr.; Grant, Paul J.; and Strassberg, Daniel D., to Honeywell Inc. Amplifier overload protection circuit. 3,633,093, 1-4-72, Cl. 323-9.

Templeton, Richard A. Vehicle guard for highways. 3,658,300, 4-25-72, Cl. 256-13.100.

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Tenenbaum, Mircea M., to Allied Control Company, Inc. Put time delay relay. 3,689,807, 9-5-72, Cl. 317-141.00s.

Tenenbaum, Paul; and Seng, Paul J., to Strick Corporation. Convertible vehicle body and auxiliaries. 3,692,363, 9-19-72, Cl. 298-24.000.

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Teotino, Uberto M., to Whitefin Holding S.A. Antibacterial therapeutic composition containing thiamphenicol derivative. 3,651,235, 3-21-72, Cl. 424-311.

Teotino, Uberto Maria; and Dellabella, Davide, to Zambon S.p.A. Thiamphenicol derivatives. 3,652,607, 3-28-72, Cl. 260-401.

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Tepper, Frederick; and Mausteller, John W., to Mine Safety Appliances Company. Underwater breathing apparatus. 3,692,026, 9-19-72, Cl. 128-142.200.

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Terasaki, Iwao; Kimura, Yoshio; Okamoto, Toshio; Shima, Tsukasa; Kohno, Mitsuo; and Kitamura, Kazuyuki, to Asahi Kasei Kogyo Kabushiki Kaisha. Polycondensing bis-(hydroxyalkyl)therephthalates in the presence of small amounts of a germanium compound and a serically hindered bisphenol or trisphenol. 3,669,927, 6-13-72, Cl. 260-47.00c.

Terasaki, Katuhisa. Cigarette holder with tar-collecting insert. 3,702,118, 11-7-72, Cl. 131-209.000.

Terasaki, Paul I., to United States of America, Health, Education and Welfare. Lymphocyte transport bag. 3,692,493, 9-19-72, Cl. 23-259.000.

Terasaki, Shingan, to Nikko Pen Kabushiki Kaisha. Multicolor ballpoint pen. 3,700,340, 10-24-72, Cl. 401-33.000.

Terasawa, Masaji: *See—*
Iijima, Hiroshi; Terasawa, Masaji; Gotoh, Yutaro; and Tokita, Osamu, 3,703,418.

Terasawa, Michitaka, to Tokyo Shibaura Electric Co., Ltd. X-ray tube. 3,700,950, 10-24-72, Cl. 313-55.000.

Terasawa, Nobuo; Yagi, Syuho; Yanaga, Yoichiro; and Kiritani, Toyotaro, to Toyo Boseki Kabushiki Kaisha. Apparatus for scouring greasy wool. 3,636,736, 1-25-72, Cl. 68-18.

Terasawa, Tadao: *See—*
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Terashima, Masaoki: *See—*
Itoh, Yohnosuke; Miki, Masataka; Nishiyama, Makoto; Uda, Yuhnosuke; and Terashima, Masaoki, 3,682,469.

Terashima, Toru, to Nippon Petroleum Refining Company. Method and multi-branched network system for uniformly distributing the flow of mixed phase fluids. 3,670,759, 6-20-72, Cl. 137-171.000.

Terashima, Toshio: *See—*
Muroga, Ko; Okuda, Jiro; Shimasaki, Nobuhiko; Terashima, Toshio; Maruyama, Yasushi; Kaneyasu, Hiroshi; Sohma, Kikuya; and Lovell, Clarence A., 3,649,767.

Terashita, Takaaki: *See—*
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Terayama, Fusaji, to Morita Fire Pump Mfg. Co., Ltd. Device for preventing falling down of lifter of fire fighting ladder-equipped vehicle. 3,693,755, 9-26-72, Cl. 182-102.000.

Terazawa, Yoshizumi; and Ayaki, Kazuo, to Nippon Electric Company, Limited. Electron lens for convergence of plurality of beams. 3,678,317, 7-18-72, Cl. 313-69.00r.

Terbrack, William H.: *See—*
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Terbrueggen, Paul L.; and Caspari, Georg K., to Burroughs Corporation. Record sensing mechanism. 3,660,640, 5-2-72, Cl. 235-61.11.

Terekhova, Vera Fedorovna: *See—*
Stroganov, Genrikh Borisovich; Savitsky, Evgeny Mikhailovich; Tikhova, Nina Mikhailovna; Terekhova, Vera Fedorovna; Volkov, Mstislav Vasilievich; Sivash, Konstantin Mitrofanovich; and Borodkin, Vladislav Sergeevich, 3,687,135.

Terenzi, Joseph Francis, to American Cyanamid Company. High impact weatherable rigidefied structures. 3,700,546, 10-24-72, Cl. 161-195.000.

Terenzi, Joseph Francis, to American Cyanamid Company. Process for preparation of rubber modified styrene-acrylonitrile polymers. 3,700,622, 10-24-72, Cl. 260-33.6ao.

Terjenian, Leo: *See—*
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Terkelsen, Bruce E.: *See—*
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Terlecky, Boris S.: *See—*
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Terman, Lewis Madison, to International Business Machines Corporation. Three-phase dynamic shift register. 3,648,066, 3-7-72, Cl. 307-221.

Termet, Pierre. Apparatus using the energy produced by the explosion of a machine gun cartridge (shell). 3,632,032, 1-4-72, Cl. 227-10.

Termet, Pierre. Cartridge activated two part ram. 3,686,858, 8-29-72, Cl. 60-26.100.

Termin, Eric; and Ismail, Roshdy, to Dynamit Nobel Aktiengesellschaft. Process for the manufacture of titanic esters. 3,641,079, 2-8-72, Cl. 260-429.5.

Termin, Erich: *See—*
Dijkhuizen, Willem; Termin, Erich; Bleh, Otto; and Morgenstern, Dieter, 3,673,159.
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Langenhoff, Ferdinand; Termin, Erich; Bleh, Otto; and Lenz, Arnold, 3,684,433.
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Termin, Erich; Bleh, Otto; and Lenz, Arnold, to Dynamit Nobel Aktiengesellschaft. Vanadium oxytrialcoholates. 3,652,617, 3-28-72, Cl. 260-429.

Termin, Erich; Rogler, Walter; Joch, Wilhelm; and Honigschmid-Grossich, Rudiger, to Dynamit Nobel Aktiengesellschaft. Dialkali salts of orthosilicic acid diesters and their preparation. 3,679,724, 7-25-72, Cl. 260-448.80r.

Termin, Erich; and Bleh, Otto, to Dynamit Nobel Aktiengesellschaft. Production of potassium titanyl oxalate. 3,699,137, 10-17-72, Cl. 260-429.500.
Terminal Data Corporation: *See—*
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Terminal Testing Laboratories, Inc.,: *See—*
Appleman, Milo Don, 3,701,728.
Termomeccanica Italiana S.p.A., mesne: *See—*
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Termont, Charles George, to Deere & Company. Functional counterweight system for a track laying tractor. 3,680,651, 8-1-72, Cl. 180-9.400.
Terna, Frederick. Canvas stretcher. 3,651,854, 3-28-72, Cl. 160-374.1.
Terner, E. M., to Midland Glass Company, Inc. Plastic encased glass container. 3,698,586, 10-17-72, Cl. 215-12.00r.
Ternes, Donald J.: *See—*
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Ternes, Jacob M. Means for conveying, discharging and mixing livestock feeds. 3,642,254, 2-15-72, Cl. 259-46.
Teroson Werke G.m.b.H.: *See—*
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Teroux, Joseph O. Security device for locking gasoline accelerator pedal of automobile. 3,631,694, 1-4-72, Cl. 70-202.
Terpstra, Garry: *See—*
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Terpstra, Lieuwe: *See—*
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Terpstra, Marrine A., to Monsanto Company. Process for inhibiting color formation in o-nitrophenol. 3,705,198, 12-5-72, Cl. 260-622.00r.
Terrana, Jack D.; and Miller, Leo A., to Wellman-Lord, Inc., mesne. Process for recovering sulfur dioxide from a gas containing same. 3,687,623, 8-29-72, Cl. 423-242.000.
Terrana, Jack D.; and Miller, Leo A., to Wellman-Lord, Inc., mesne. Process for recovering sulfur dioxide from a gas containing same. 3,687,624, 8-29-72, Cl. 423-242.000.
Terrana, Jack D.; and Miller, Leo A., to Wellman-Lord, Inc., mesne. Recovery of sulfur dioxide from waste gas. 3,687,625, 8-29-72, Cl. 423-242.000.
Terranova, Federico. Procedure for the removal of the bones from hams and similar cuts of meat. 3,644,963, 2-29-72, Cl. 17-46.
Terrasse, Gilles: *See—*
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Terreault, Gerard Linel Patrick, to General Precision Industries Limited. Frequency synthesizer having output oscillator phase locked to frequencies derived from a single frequency standard. 3,684,976, 8-15-72, Cl. 331-22.000.
Terrell, Ross C., to Airco Inc. 1,1,1-Trifluoro-2-difluoro-methoxy propane as an anesthetic agent. 3,663,714, 5-16-72, Cl. 424-342.
Terrell, Ross C., to Airco, Inc. Ether compounds as anesthetics. 3,663,715, 5-16-72, Cl. 424-342.
Terrell, Ross C., to Airco, Inc. Compositions and methods for producing anesthesia. 3,666,864, 5-30-72, Cl. 424-342.
Terrell, Walter L., Jr.: *See—*
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Terrell, William H., to Diebold, Incorporated. Pneumatic system carrier construction. 3,655,153, 4-11-72, Cl. 243-35.
Terrell, William H., to Diebold Incorporated. Pneumatic tube system substation terminal box construction. 3,689,009, 9-5-72, Cl. 243-24.000.
Terrels, Joseph L.; and Meneses, Robert. Container and stirrer for paint sprayer. 3,672,645, 6-27-72, Cl. 259-122.000.
Terreni, Giansandro. Demountable fishing lure with interchangeable elements. 3,672,086, 6-27-72, Cl. 43-42.090.
Terresearch Limited: *See—*
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Terrier, Pierre. Automatic coupling for rolling stock of miniature railways. 3,662,489, 5-16-72, Cl. 46-216.
Terrill, James R.; and Dzierski, Stanley F., to Aluminum Company of America. Fluxless ultrasonic soldering of aluminum tubes. 3,680,200, 8-1-72, Cl. 29-500.000.
Terry, Alton L.: *See—*
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Terry, Arthur John: *See—*
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Terry, Claude E., to Textile Rubber & Chemical Company, Inc. Carpet with a foam polyurethane backing. 3,705,834, 12-12-72, Cl. 161-66.000.
Terry, Claude Edward, to Textile Rubber & Chemical Company, Inc. Method of applying a backing to a carpet and product. 3,700,515, 10-24-72, Cl. 156-72.000.
Terry, David M.: *See—*
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Terry, David W., to International Business Machines Corporation. Variable right hand margin control system. 3,631,957, 1-4-72, Cl. 197-19.
Terry, David W., to International Business Machines Corporation. System for controlling format. 3,676,853, 7-11-72, Cl. 340-172.500.
Terry, Jacques. Multi-channel remote-measuring network. 3,636,537, 1-18-72, Cl. 340-182.
Terry, John Brian, to Marconi Company Limited, The. Time division data transmission system having interrogation signal passed through matrix switches to junctors via all free paths. 3,673,568, 6-27-72, Cl. 340-147.00r.
Terry, Lewis E., to Motorola, Inc. Sputter etch mask. 3,649,503, 3-14-72, Cl. 204-192.
Terry, Reese S., Jr., to Cordis Corporation. D.C. to D.C. converter. 3,681,674, 8-1-72, Cl. 321-2.000.
Terry, Roy P., Jr.: *See—*
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Terry, Rupert Douglas, to Johns-Manville Corporation. Method for jacketing cylindrical articles. 3,660,890, 5-9-72, Cl. 29-477.
Terry, William M.: *See—*
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Terry, William M.; Graham, John W.; Sinclair, Albert R.; and Kiel, Othar M., to Esso Production Research Company. Method for fracturing subterranean formations. 3,700,032, 10-24-72, Cl. 166-283.000.
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Terzian, Rouben T.; and Glass, Marvin I., to Glass, Marvin, & Associates. Programmed self-propelled toy. 3,648,408, 3-14-72, Cl. 46-244.
Tesa S.A.: *See—*
Gattesco, Giovanni, 3,661,027.
Tesar, Ian A. Instructional device with interchangeable indicia cards. 3,699,668, 10-24-72, Cl. 35-9.00d.
Tesch, Guenther Horst. Flexible materials. 3,655,501, 4-11-72, Cl. 161-109.
Tesch, Gunter Horst; and Colijn, Johannes J. V., to Breveteam SA. Method of slitting foam. 3,682,739, 8-8-72, Cl. 156-293.000.
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Teske, Daniel E., to Emerson Electric Co. Electrical control system. 3,665,219, 5-23-72, Cl. 307-252.00b.
Teske, Fritz; Teske, Lothar; and Dreismann, Robert. Slide ring for radial and axial sealing. 3,700,248, 10-24-72, Cl. 277-80.000.
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Tesoro, Giuliana; and Lee, Wing Kai, to Stevens, J. P., & Co., Inc. Process of shrinkproofing wool with epoxy carbamates and a polyamine. 3,684,429, 8-15-72, Cl. 8-127.600.
Tesoro, Giuliana C.: *See—*
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Tesoro, Giuliana C.; Lee, Wing-Kai; and Domovs, Kelvin B., to Stevens, J. P., & Co., Inc. Phosphorus-containing compounds. 3,658,791, 4-25-72, Cl. 260-239.
Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Novel cyclic compositions. 3,669,977, 6-13-72, Cl. 260-301.000.

Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Sulfonamide aziridinyl compounds. 3,682,893, 8-8-72, Cl. 260-239.00e.

Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Substituted silyl glycidylamines. 3,682,975, 8-8-72, Cl. 260-348.0sc.

Tesoro, Giuliana C.; and Sello, Stephen B. Sodium thiosulfoloethyl ketones and their use as polymer modifiers. 3,682,997, 8-8-72, Cl. 260-453.00r.

Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Textile treating agents and methods of preparing same. 3,687,891, 8-29-72, Cl. 260-482.00c.

Tesoro, Giuliana C. Process for the chemical modification of polymers containing active hydrogen atoms by reacting such with a sulfonamide compound. 3,696,092, 10-3-72, Cl. 260-231.00a.

Tesoro, Guiliana; Sello, Stephen B.; Moore, Donald R.; and Wurster, Rudolf F., to Stevens, J. P., & Co., Inc. N-(Oxymethyl) derivatives of phosphonopolyamino-s-triazines used as flame-retarders for cellulosic materials. 3,650,670, 3-21-72, Cl. 8-116.3.

Tessler, Martin M.; and Rutenberg, Morton W., to National Starch and Chemical Corporation. Builders for synthetic detergent compositions based on carboxyethyl derivatives of polyalcohols. 3,669,890, 6-13-72, Cl. 252-89.000.

Tessler, Martin Melvyn; and Rutenberg, Morton Wolf, to National Starch and Chemical Corporation. Process for reacting ungelatinized starch with a mixed carbonic-carboxylic anhydride of a polycarboxylic acid. 3,699,095, 10-17-72, Cl. 260-233.500.

Tessmar, Sven-Erik. Method of producing unit portions of instant coffee or instant tea. 3,666,483, 5-30-72, Cl. 99-65.

Tessmer, Raymond G., Jr., to Procter & Gamble Company, The. Apparatus for separating defective articles from acceptable articles. 3,653,508, 4-4-72, Cl. 209-97.

Tessmer, Raymond G., Jr., to Procter & Gamble Company, The. Carton having gusseted side flaps. 3,661,321, 5-9-72, Cl. 229-51.

Tesson, Gerard, to Manufacture de Produits Chimiques Protex. Cationic thermosetting resins containing the reaction product of a carboxyl terminated polyester with an epoxy amine adduct treated with epichlorohydrin. 3,702,351, 11-7-72, Cl. 260-835.000.

Tessore, Susanne: *See—*
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Testa, Emilio: *See—*
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Testograph Limited: *See—*
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Testolin, Reno J., to Richardson Company, The. Continuous graining and apparatus therefor. 3,643,379, 2-22-72, Cl. 51-6.

Testolin, Reno J., to Richardson Company, The. Continuous sheet graining process. 3,701,222, 10-31-72, Cl. 51-317.000.

Testone, Anthony Q., to Testone Electrostatics Corporation. Ionized air projector. 3,643,128, 2-15-71, Cl. 317-4.

Testone Electrostatics Corporation: *See—*
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Testori, Mario: *See—*
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Tetar, Claude R., to L'Electronique Appliquee. System for controlling deliveries of liquid products and the like. 3,688,085, 8-29-72, Cl. 235-61.60r.

Teten, Alfred M.: *See—*
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Tetenbaum, Marvin T.: *See—*
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Tetenbaum, Marvin T.; and Degginger, Edward R., to Allied Chemical Corporation. Process for the preparation of D,L-lysine. 3,637,838, 1-25-72, Cl. 260-534.

Tetenbaum, Marvin T., to Allied Chemical Corporation. Aryl-substituted tetraketopiperazine monomers. 3,654,278, 4-4-72, Cl. 260-268.

Tetenbaum, Marvin T., to Allied Chemical Corporation. Nitroalkyl hexahydroazepines useful as insecticides. 3,681,339, 8-1-72, Cl. 260-239.0be.

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Teter, Harold P. Baseball diamond layout device. 3,668,781, 6-13-72, Cl. 33-1.000.

Teti, John, to Du Pont de Nemours, E. I., and Company. Process for polymer recovery. 3,696,058, 10-3-72, Cl. 260-2.300.

Tetra Pak International AB: *See—*
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Tetrault, Leonard P., to Aerodyne Controls Corporation. Acceleration-responsive switch. 3,632,920, 1-4-72, Cl. 200-61.53.

Tetrick, Elton E., to Sperry Rand Corporation. Snap action switch. 3,697,711, 10-10-72, Cl. 200-67.0db.

Tetrick, John D.: *See—*
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Tetyak, John J.: *See—*
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Teubler, Adolf; and Eversheim, Paul, to Vereinigte Leichtmetall-Werke GmbH. Aluminum offset printing plate. 3,672,878, 6-27-72, Cl. 75-141.000.

Teufel, Helmut: *See—*
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Teumac, Fred Norman; and Harriman, Lester W., to Dow Chemical Company, The. Cleaning method. 3,668,009, 6-6-72, Cl. 134-2.

Teurnier, Roger, to CIT-Compagnie Industrielle des Telecommunications. Retransmitting apparatus for converting interrupted telegraphic modulated signals into telegraphic signals without interruptions. 3,643,026, 2-15-72, Cl. 178-70.

Teurnier, Roger; and Rousseau, Claude, to CIT-Compagnie Industrielle des Telecommunications. Line equipment device for telegraph lines. 3,644,672, 2-22-72, Cl. 178-69.

Teurnier, Roger, to C.I.T.-Compagnie Industrielle des Telecommunications. Apparatus for connecting transmission channels. 3,647,966, 3-7-72, Cl. 178-70.

Teurnier, Roger, to C.I.T.-Compagnie Industrielle des Telecommunications. Device for evaluating the difference between tw variable inputs. 3,693,167, 9-19-72, Cl. 340-172.500.

Teuscher, Leon A.: *See—*
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Teuscher, Leon A.; Trubisky, Michael P.; Palermiti, Frank M.; and Levine, Charles J., to Xerox Corporation. Vitreous selenium alloy matrix containing isolated particles and particle networks of resin. 3,697,265, 10-10-72, Cl. 96-1.500.

Teuschler, Hans-Joachim: *See—*
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Teutsch, George J.; and Shapiro, Elliot L., to Schering Corporation. Process for preparation of 6-azido-4,6-bis-dehydro-steroids. 3,665,017, 5-23-72, Cl. 260-349.

Teutsch, John H. Automobile wheel theft prevention device. 3,668,952, 6-13-72, Cl. 81-125.000.

Teuwen, Heinz: *See—*
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Teves, Alfred, Maschinen-und Armaturenfabrik KG: *See—*
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Tew, Walter Hosey, Jr., to General Electric Company. Symmetrical function generator. 3,648,037, 3-7-72, Cl. 235-197.

Tew, Walter Hosey, Jr., to General Electric Company. Digital correlator for calculating figure of merit of communications transmission system. 3,689,884, 9-5-72, Cl. 340-146.10e.

Tewksbury, Floyd L., Jr.; and Demler, Walter R., to Allied Chemical Corporation. Process for preparing 2-[2-(arylamino)-vinyl]-1-(lower alkyl)-3-H-indolium salt dyes. 3,673,178, 6-27-72, Cl. 260-240.800.

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Tezuka, Kunitoshi. Apparatus for forming packed refuse blocks. 3,696,583, 10-10-72, Cl. 53-124.00d.

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Thaeler, Bruce K., to Textron, Inc. Fastening device for garments. 3,654,673, 4-11-72, Cl. 24-208.

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Thaler, Warren A., to Esso Research and Engineering Company. 3,5-Substituted-1,2,4 thiadiazoles. 3,691,183, 9-12-72, Cl. 260-302.0sd.

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Thalmann, Claude, to Polytronic Ltd. Target and circuit means for automatically indicating the scare of a projectile shot from a target. 3,705,725, 12-12-72, Cl. 273-102.20a.

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Tharmaratnam, Poothathamby, to U.S. Philips Corporation. Transistor amplifier insensitive to the polarity of the supply voltage. 3,665,330, 5-23-72, Cl. 330-24.

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Thatcher, Russell S.; and Linam, Richard L., to Kelso Marine, Inc. Solid lubricant launching arrangement for a vessel. 3,681,926, 8-8-72, Cl. 61-67.000.

Thate, Kurt; and Muller, Jurgen, to Agfa-Gevaert Aktiengesellschaft. Apparatus for wet treatment of films or the like. 3,647,596, 3-7-72, Cl. 156-345.

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Thayer, Frank L., to Johnson-March Corporation. Railroad car thawing device utilizing disposable reflector sheets. 3,654,430, 4-4-72, Cl. 219-347.
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Thayer, Victor R. Production of heavy water. 3,685,966, 8-22-72, Cl. 423-580.0on.
Thayer, Victor R. Process and apparatus for concentrating isotope by the simultaneous exchange of heat and mass. 3,685,967, 8-22-72, Cl. 423-580.0on.
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Theer, Anton, to Agfa-Gevaert Aktiengesellschaft. Motion picture camera with automatically deactivatable fading means. 3,674,349, 7-4-72, Cl. 352-91.000.
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Theis, James V., Jr.; McCord, John B.; and Holly, Harry H., to Hollymatic Corporation. Fluid engine. 3,707,336, 12-26-72, Cl. 416-186.000.
Theis, Kathleen. Apparatus for curling eye lashes. 3,640,290, 2-8-72, Cl. 132-32.
Theis, Peter F. Multiplier circuit for automatic telephone answering system. 3,668,325, 6-6-72, Cl. 179-6.
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Thelen, Alfred J.; Bergfelt, Nils H.; and Eufusia, Eugene A., to Optical Coating Laboratory, Inc. Coating apparatus and system. 3,636,916, 1-25-72, Cl. 118-8.
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Theodore, Charles, to LTV Ling Altec, Inc. Electrical adjustment of time-constant apparatus. 3,660,690, 5-2-72, Cl. 307-273.

Theodore, Charles, to LTV Ling Altec, Inc. Protected power supply. 3,670,232, 6-13-72, Cl. 321-14.
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Thomanek, Franz Rudolf, to Messerschmitt-Bolkow Gesellschaft mit beschrankter Haftung. Method and equipment for the elimination of mine blockades. 3,638,569, 2-1-72, Cl. 102-22.
Thomann, Helmut, to Siemens Aktiengesellschaft. Piezoelectric structure composed of a ceramic ferro-electric material having a Perovskite arrangement of components. 3,663,440, 5-16-72, Cl. 252-62.9.
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Thomas, Alan Francis, to Firmenich & Cie. Process for the preparation of unsaturated aldehydes. 3,654,309, 4-4-72, Cl. 260-332.3.

Thomas, Alfred W., to Massey-Ferguson Services N.V. Control for power take-off. 3,674,106, 7-4-72, Cl. 180-53.000.

Thomas, Alfred William, to Massey-Ferguson Services N.V. Sliding shaft power take off speed change. 3,675,497, 7-11-72, Cl. 74-15.400.

Thomas, Allen G.: *See—*
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Thomas, Arthur E.: *See—*
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Thomas, Aubrey M.; and Holston, Aubrey G., to United States of America, Navy. Electric field measuring instrument with probe for sensing three orthogonal components. 3,662,260, 5-9-72, Cl. 324-72.

Thomas, Billy W.: *See—*
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Thomas, Buford L.; and Steffens, David G., to Valco, Inc. Vertical adhesive applicator head. 3,642,181, 2-15-72, Cl. 222-517.

Thomas, Calvin J. Coaxial hybrid junction device having impedance matched terminations. 3,654,570, 4-4-72, Cl. 333-11.

Thomas, Carlton E., to KMS Industries, Inc. Recorder with zone plate scanner. 3,703,724, 11-21-72, Cl. 346-108.000.

Thomas, Carlton E.; and Cochran, Gary D., to KMS Industries, Inc. Method and apparatus for personal identification. 3,704,949, 12-5-72, Cl. 356-71.000.

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Thomas, Clarence H. Vent for soil pipe stack. 3,638,402, 2-1-72, Cl. 55-307.

Thomas, Dalton A. Connector between transmission actuating shaft and arm therefor. 3,675,956, 7-11-72, Cl. 287-53.00r.

Thomas, Daniel C., to Lithoplate, Inc. Phenoxy photopolymer having no epoxy groups, and article made therefrom. 3,652,272, 3-28-72, Cl. 96-33.

Thomas, Daniel C., to Lithoplate, Inc. Polyurethane-cinnamate photopolymer. 3,655,625, 4-11-72, Cl. 260-77.5.

Thomas, David; and Seager, James Barry, to Lucas, Joseph, (Industries) Limited. Vehicle windscreen wiping mechanisms. 3,651,699, 3-28-72, Cl. 74-109.

Thomas, David A.: *See—*
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Thomas, David L. Holder for starter fuel in fireplace grate. 3,682,158, 8-8-72, Cl. 126-165.000.

Thomas, David M., to International Standard Electric Corporation. Frame synchronization system. 3,652,799, 3-28-72, Cl. 179-15.

Thomas, David M., to International Standard Electric Corporation. TDM fault detector. 3,686,441, 8-22-72, Cl. 179-15.0bf.

Thomas, David Michael, to International Standard Electric Corporation. Time division multiplex switches. 3,673,336, 6-27-72, Cl. 179-15.0bd.

Thomas, Dwight E., to Thomas Game Call Co., Inc. Game call with voice assembly having positioning means therefor. 3,656,258, 4-18-72, Cl. 46-180.

Thomas, Edmond J.; and Unrue, John E., Jr., to Bell Telephone Laboratories, Incorporated. Method for improving the settling time of a transversal filter adaptive echo canceller. 3,632,905, 1-4-72, Cl. 179-170.2.

Thomas, Edmond Joseph, to Bell Telephone Laboratories, Incorporated. Adaptive echo canceller for nonlinear systems. 3,647,992, 3-7-72, Cl. 179-170.2.

Thomas, Edmund C.: *See—*
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Thomas, Frank W. Lamp guard. 3,652,845, 3-28-72, Cl. 240-54.

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Thomas, Herbert P.; Hartman, Thomas E.; and Aasen, Torulf F., to Copystatics Manufacturing Corporation. Copying machine for making reduced-size copies. 3,639,057, 2-1-72, Cl. 355-51.

Thomas, Hubert E. Vibratory rollers. 3,635,134, 1-18-72, Cl. 94-50.

Thomas, Hubert L.; and Mueller, Alexander, to Ren Plastics, Inc. Adducts of dicyandiamide and the equimolar condensate of phthalic anhydride and a polyamine as epoxy resin latent curing agents. 3,632,795, 1-4-72, Cl. 260-47.

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Thomas, Jean Claude, to Produits Chimiques Pechiney-Saint-Gobain. Polymerization in mass of ethylenic monomers and products produced thereby. 3,687,919, 8-29-72, Cl. 260-87.100.
Thomas, Jean Claude; and Soussan, Salomon, to Produits Chimiques Pechiney-Saint-Gobain. Polymerization of ethylenic monomers and products thereof. 3,687,923, 8-29-72, Cl. 260-92.80r.
Thomas, Jeffery R.; and Steinmetz, Ib, to Sun Oil Company. Preparation of lube hydrocracking stocks. 3,663,427, 5-16-72, Cl. 208-87.
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Thomas, Michael D.; and Milovac, Sidney. Eccentric drive film advancing system. 3,671,114, 6-20-72, Cl. 352-185.000.
Thomas, Morton I. Tabbed anchoring tape means. 3,677,250, 7-18-72, Cl. 128-348.000.
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Thomas, Richard K., to General Electric Company. Redirective dual array antenna. 3,680,112, 7-25-72, Cl. 343-100.0td.
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Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., to Great Lakes Chemical Corporation. Hexa-alkyl-alkylenediamine diquarternary dihalide halogen complexes and their use. 3,646,140, 2-29-72, Cl. 260-567.6.
Thomas, Robert M.; and Gerns, Fred R., to Great Lakes Chemical Corporation. Phosgene as a novel catalyst for the abnormal addition of HBr to alpha-olefins. 3,655,788, 4-11-72, Cl. 260-663.
Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., to Great Lakes Chemical Corporation. Dipyridylium quaternary dihalide halogen complexes. 3,657,256, 4-18-72, Cl. 260-296.
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Thomas, Robert M.; and Mamuzic, Rastko I., to Great Lakes Chemical Corporation. Carbonyl halide catalyst for α-bromination of aliphatic acids. 3,661,947, 5-9-72, Cl. 260-408.
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Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., to Great Lakes Chemical Corporation. Dipyridylium quaternary dihalide halogen complexes. 3,674,788, 7-4-72, Cl. 260-250.
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Thomas, Thomas. Holder for windblown reeds. 3,670,871, 6-20-72, Cl. 206-13.000.
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Thomas, Walter C. Fire extinguisher. 3,702,157, 11-7-72, Cl. 169-1.00r.
Thomas, Warren M., to Phillips Petroleum Company. Method of introducing liquid quench into a carbon black reactor. 3,637,350, 1-25-72, Cl. 23-209.4.
Thomas, Werner E., to Massey-Ferguson Industries Limited. Drawer locking system. 3,664,720, 5-23-72, Cl. 312-219.
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Thomas, William E.; and Roush, Gale S., to Phillips Petroleum Company. Edge protector. 3,637,234, 1-25-72, Cl. 280-179.
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Thomas, William G., to Sperry Rand Corporation. Combination lever ship's steering system. 3,695,205, 10-3-72, Cl. 114-144.00r.
Thomas, William L. Air pollution control system for internal combustion engines. 3,645,093, 2-29-72, Cl. 60-30.
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Thomasian, Harvey A., to Lowell Corporation. Wrench. 3,651,718, 3-28-72, Cl. 81-52.4.
Thomason, James P.; and Jennings, Thomas Harold. Automatic welding hood with automatically positioned eye shield. 3,692,974, 9-19-72, Cl. 219-147.000.
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Thominet, Michel Leon, to Societe d'Etudes Scientifiques et Industrielles. Method of treatment of emesis and nervous tension in mammals with certain indoles-2-carboxamides and derivatives thereof. 3,662,070, 5-9-72, Cl. 424-274.
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Thompson, Albion J., to Great Northern Nekoosa Corporation. Line sampling device. 3,659,461, 5-2-72, Cl. 73-422.0tc.
Thompson, Alonzo C.: *See—*
Hedin, Paul A.; Miles, Lavenia R.; Minyard, James P.; and Thompson, Alonzo C., 3,657,414.
Thompson, Alvin E., to Philco-Ford Corporation. Push-button key assembly. 3,680,394, 8-1-72, Cl. 74-10.330.
Thompson, Andrew V.; and Herlein, Richard F., to American Micro-Systems, Inc. Two-phase ratioless logic circuit with delayless output. 3,651,334, 3-21-72, Cl. 307-208.
Thompson, Anthony Sigston: *See—*
Steed, Frank Streeton; and Lawson-Tancred, Henry, 3,675,799.
Thompson, Arnold M. Croquet wicket assembly. 3,695,610, 10-3-72, Cl. 273-56.000.
Thompson, Bernard C., 1/2 to Sherman, William P. Soap bar attachment device. 3,697,111, 10-10-72, Cl. 294-64.000.
Thompson, Bernard L.: *See—*
Thies, Charles E.; Thompson, Bernard L.; and Anderson, Stanley E., 3,673,287.
Thompson, Brian: *See—*
Coelho, Norman C.; and Thompson, Brian, 3,668,935.
Thompson, Brian Hoyle, to Gas Council, The. Process for the production of a methane-containing gas. 3,642,460, 2-15-72, Cl. 48-214.
Thompson, Burton J.; and Eide, Melvin O., to United Control Corporation. Transducer system with floating input circuit and constant current output electronics. 3,641,414, 2-8-72, Cl. 318-662.
Thompson, Burton J., to Sundstrand Data Control, Inc. Servoed transducer system with current output circuit. 3,678,374, 7-18-72, Cl. 323-90.000.
Thompson, Charles B., to Aluminum Company of America. Hot dip aluminizing alloy. 3,639,107, 2-1-72, Cl. 29-196.2.
Thompson, Charles E., to Esso Research and Engineering Company. Method of treating exhaust gases of external combustion engines. 3,637,344, 1-25-72, Cl. 23-2.
Thompson, Charles F.: *See—*
Jeffries, Luther R., Jr.; and Thompson, Charles F., 3,643,096.
Thompson, Charles H.: *See—*
Prewett, Hubert P., Jr.; and Thompson, Charles H., 3,672,246.
Thompson, Charles H., to General Motors Corporation. Transmission control system. 3,705,642, 12-12-72, Cl. 192-4.000.
Thompson, Charles J.: *See—*
Carmody, William D.; Thompson, Charles J.; and Butzler, George J., 3,673,126.
Thompson, Charles R.: *See—*
Allen, Robert E.; Thompson, Charles R.; and Hidalgo, John, 3,655,680.
Thompson, Charles S.: *See—*
Hay, Wayne W.; and Thompson, Charles S., 3,633,606.
Thompson, Charles W.: *See—*
Kasecky, Joseph J.; and Thompson, Charles W., 3,707,252.
Thompson Chemicals, Inc.: *See—*
Thompson, Henry C., 3,663,720.
Thompson, Courtenay M. Apparatus for removing crankcase. 3,649,139, 3-14-72, Cl. 417-568.
Thompson, Cullen R., to Shell Oil Company. Mining ventilation method. 3,695,714, 10-3-72, Cl. 299-12.000.
Thompson, Dallas Glenn, 1/2% to Koerner, William B. Toothbrush. 3,680,168, 8-1-72, Cl. 15-176.000.
Thompson, Darrell R., to Du Pont de Nemours, E. I., and Company. Stable dispersions. 3,644,255, 2-22-72, Cl. 260-29.1.
Thompson, David A.: *See—*
Almasi, George S.; Chang, Hsu; Keefe, George E.; and Thompson, David A., 3,691,540.
Thompson, David Crompton: *See—*
Jack, James; Drake, John; Thompson, David Crompton; and Harris, Frederick John, 3,679,391.
Thompson, David E.: *See—*
Kreuzer, John A.; and Thompson, David E., 3,699,891.

Thompson, David F.: *See—*
Bunker, Thomas D.; and Thompson, David F., 3,689,336.

Thompson, David F., to Sylvania Electric Products, Inc. Integrated circuit package. 3,676,569, 7-11-72, Cl. 174-52.00s.

Thompson, Don D., to Chevron Research Company. Dielectric constant measurement method. 3,675,121, 7-4-72, Cl. 324-61.00r.

Thompson, Donald F.; Quartermus, George D.; and Quinn, Thomas M., to Avisun Corporation. Composite sheet. 3,672,944, 6-27-72, Cl. 117-76.00f.

Thompson, Donald F.; and Quartermus, George D., to Standard Oil Company (Indiana). Composite sheet. 3,695,923, 10-3-72, Cl. 117-76.00f.

Thompson, Donald L.: *See—*
Schoendorfer, George F.; Morschhauser, Roger J.; Gardner, Thomas S.; and Thompson, Donald L., 3,655,539.

Thompson, Donald O.: *See—*
Thompson, Robert B.; Thompson, Donald O.; Kraut, Edgar A.; and Lim, Teong C., 3,699,481.

Thompson, Donald O. Navigational recording aid display aid. 3,688,252, 8-29-72, Cl. 340-24.000.

Thompson, Dorman N.: *See—*
Pearson, Walter C.; Quinn, Edward R.; and Thompson, Dorman N., 3,637,455.

Thompson, Earl A.: *See—*
Van Deberg, Walter H.; and Thompson, Earl A., 3,688,830.

Thompson, Earl A., to Lamb, F. Jos., Company and Thompson, Earl A., Manufacturing Co. Valve. 3,690,956, 9-12-72, Cl. 148-2.000.

Thompson, Earl A., to Lamb, F. Jos., Company. Camshaft. 3,690,957, 9-12-72, Cl. 148-3.000.

Thompson, Earl A., to Lamb, F. Jos., Company. Rocker arm. 3,690,958, 9-12-72, Cl. 148-3.000.

Thompson, Earl A., to Lamb, F. Jos., Company. Alloy, article of manufacture, and process. 3,690,959, 9-12-72, Cl. 148-2.000.

Thompson, Earl A.; deceased (by Thompson, Elizabeth F.; Franseth, Paul; and Wild, Michael M.; executors), to Lamb, F. Jos., Company, mesne. Machine for casting objects composed of separated different metals autogenously joined. 3,704,746, 12-5-72, Cl. 164-57.000.

Thompson, Earl A., Manufacturing Co.: *See—*
Thompson, Earl A., 3,690,956.
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Thompson, Earl Clayton. Water dispenser for animals. 3,698,431, 10-17-72, Cl. 137-604.000.

Thompson, Earl R.; and Lemkey, Franklin D., to United Aircraft Corporation. Anisotropic polyphase structure of multivariant eutectic composition. 3,671,223, 6-20-72, Cl. 75-122.000.

Thompson, Edward A.: *See—*
Carpenter, David B.; and Thompson, Edward A., 3,697,414.
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Thompson, Edward J.: *See—*
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Thompson, Edward J., to Upjohn Company, The. Method of preparing organic isocyanates in the presence of molecular sieves. 3,697,570, 10-10-72, Cl. 260-453.0ph.

Thompson, Edward R., to Lockheed Aircraft Corporation. Photographic reproduction of halftone screens. 3,647,471, 3-7-72, Cl. 96-116.

Thompson, Edwin P.: *See—*
Peck, Merrill V.; Thompson, Edwin P.; Thompson, William F.; and Peck, Robert M., 3,685,377.

Thompson, Edwin R., to Thompson-Canfield Inc. Mounting device for weather sealing inserts in doors. 3,668,807, 6-13-72, Cl. 49-482.000.

Thompson, Elbert Gordon; and Alters, Max F., to Sutton Engineering Company. Roller leveler with quick lift upper roll unit. 3,638,326, 2-1-72, Cl. 33-182.

Thompson, Elizabeth F.: *See—*
Thompson, Earl A., 3,704,746.
Van Deberg, Walter H.; and Thompson, Earl A., 3,688,830.

Thompson, Eric William; and Marshall, Michael Charles, to Imperial Chemical Industries Limited. Detergent compositions. 3,691,081, 9-12-72, Cl. 252-89.000.

Thompson, Francis I., to Westinghouse Electric Corporation. Dual answer mode teaching system. 3,693,268, 9-26-72, Cl. 35-48.00r.

Thompson, Francis T.: *See—*
Booker, Clyde A., Jr.; and Thompson, Francis T., 3,647,953.
Booker, Clyde A., Jr.; and Thompson, Francis T., 3,647,954.
Watson, John D.; Thompson, Francis T.; and Johnson, Frederick O., 3,666,994.

Thompson, Francis T. Alarm system. 3,641,570, 2-8-72, Cl. 340-409.

Thompson, Gene C.; Radomski, Joseph E.; and Wilson, David E., to Southworth Machine Company. Sheet winding and turning method and system. 3,680,220, 8-1-72, Cl. 34-23.000.

Thompson, George J.: *See—*
Baron, George B.; and Thompson, George J., 3,648,863.

Thompson, George L. Retrievable density control valve. 3,675,714, 7-11-72, Cl. 166-224.000.

Thompson, George W.; and Oak, John T., to Continental Can Company, Inc. Necked-in can body and method and apparatus for making same. 3,690,279, 9-12-72, Cl. 113-120.0aa.

Thompson, Glen D.: *See—*
Aue, John R.; and Thompson, Glen D., 3,653,158.

Thompson, Glen M. Fishing rod carrier for bicycles. 3,648,908, 3-14-72, Cl. 224-37.

Thompson, Glenn H. Dental floss holder. 3,642,011, 2-15-72, Cl. 132-91.

Thompson, Glenn S., to Koehring Company. Piston and rod assembly. 3,654,839, 4-11-72, Cl. 92-200.

Thompson, Grady E. Motor lock. 3,650,130, 3-21-72, Cl. 70-58.

Thompson, Grant; and Wall, Bobby M., to Thiokol Chemical Corporation. Method of curing propellents containing carboxyl terminated polyalkadienes using an organic iron salt. 3,698,967, 10-17-72, Cl. 149-19.000.

Thompson, Hal J., to DCA Food Industries, Inc. Comestible stabilizer composition. 3,669,688, 6-13-72, Cl. 99-139.000.

Thompson, Harold D. Rotary tiller with back-up plate furrowing means. 3,658,135, 4-25-72, Cl. 172-42.

Thompson, Harold K., to American Telephone and Telegraph Company. Communication system traffic survey arrangement. 3,639,702, 2-1-72, Cl. 179-175.2.

Thompson, Harold P.: *See—*
Cahill, Lysle D.; Feller, John; Marshall, William W.; Thomas, Edward R.; and Thompson, Harold P., 3,689,693.

Thompson, Harold W.: *See—*
Thompson, Harold W.; Smith, Harry W.; and McCann, Paul A., Jr. (said Smith and said McCann assors. to), 3,671,943.

Thompson, Harold W.; Smith, Harry W.; and McCann, Paul A., Jr., said Smith and said McCann assors. to Thompson, Harold W. Numbers symbology. 3,671,943, 6-20-72, Cl. 340-172.500.

Thompson, Henry C.: *See—*
Rotolico, Anthony J.; Vogts, William A.; and Thompson, Henry C., 3,632,952.

Thompson, Henry C., to Thompson Chemicals, Inc. Article of manufacture having high temperature resistant properties and method of making the same. 3,663,720, 5-16-72, Cl. 117-70.00r.

Thompson, Herbert E.: *See—*
Flores, Ralph; and Thompson, Herbert E., 3,668,658.

Thompson, Herbert Lytle, to Universal Oil Products Company. Aromatic hydrocarbon recovery method. 3,702,295, 11-7-72, Cl. 208-321.000.

Thompson, Howard D. Tube float or boat. 3,696,451, 10-10-72, Cl. 9-2.00a.

Thompson, Howard G.: *See—*
Thorsrud, Ole J.; and Thompson, Howard G., 3,662,839.

Thompson, Ivan M.: *See—*
Maskal, John; Thompson, Ivan M.; and Heikel, Henrik R., 3,639,158.
Mayer, Raymond P.; Thompson, Ivan M.; and Zbojniewicz, Walter P., 3,642,264.

Thompson, James C.: *See—*
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Thompson, James E.: *See—*
Lyness, Warren I.; and Thompson, James E., 3,634,392.
Lyness, Warren I.; and Thompson, James E., 3,686,124.

Thompson, James E.; and Martin, James B., to Procter & Gamble Company, The. Complete short-chain esters of polyol mono-(acidic lipid) esters. 3,634,397, 1-11-72, Cl. 260-234.

Thompson, James E., to Motorola, Inc. Sample and hold trigger circuit. 3,638,041, 1-25-72, Cl. 307-247.

Thompson, James E., to Motorola, Inc. Sample and hold circuit. 3,643,110, 2-15-72, Cl. 307-238.

Thompson, James E., to Motorola, Inc. Phase detector and digital phase locked loop. 3,644,835, 2-22-72, Cl. 328-133.

Thompson, James E., to Motorola, Inc. Sinusoidal and square wave oscillator with automatic gain control. 3,649,929, 3-14-72, Cl. 331-61.

Thompson, James E. Aerial twister toy and catapult therefor. 3,691,674, 9-19-72, Cl. 46-74.00r.

Thompson, James E.; and D'Amato, Gerald J., to Motorola, Inc. Weighted ladder technique. 3,699,568, 10-17-72, Cl. 340-347.0da.

Thompson, James Elbert, to Motorola, Inc. Voltage controlled multivibrator. 3,665,343, 5-23-72, Cl. 331-113.00r.

Thompson, James K., to Phillips Petroleum Company. Container protective edge component. 3,636,608, 1-25-72, Cl. 29-183.5.

Thompson, James M.: *See—*
Revitz, Martin; and Thompson, James M., 3,701,931.

Thompson, James O.: *See—*
Champ, Robert B.; Jurgens, Henry A.; and Thompson, James O., 3,640,714.

Thompson, James W.: *See—*
Clifford, Alan F.; Rhyne, Thomas C.; and Thompson, James W., 3,666,784.
Ruth, Harold C.; and Thompson, James W., 3,698,487.

Thompson, John: *See—*
Fitzpatrick, Hugh M.; Neville, James J.; Thompson, John; and Boggs, Fitzhugh W., 3,648,226.

Thompson, John; and Vaughan, Roger Davison, to Nuclear Power Group Limited, The. Nuclear reactors operating in conjunction with gas turbines. 3,663,364, 5-16-72, Cl. 176-65.
Thompson, John A.; and Wisdom, William H., said Thompson assor. to said Wisdom, William H. Portable rug dyeing machine and method. 3,681,006, 8-1-72, Cl. 8-149.100.
Thompson, John F., to Weaver, W. R., Company. Scope tube with ocular retainer ring. 3,696,516, 10-10-72, Cl. 33-245.000.
Thompson, John J., Jr.: *See*—
Anello, Louis G.; Sweeney, Richard F.; Jones, Edward S.; Walsh, John T.; and Thompson, John J., Jr., 3,692,885.
Thompson, John R., to Electronic Industrial Engineering, Inc. Coaxial switch. 3,648,000, 3-7-72, Cl. 200-153.
Thompson, John Robert Michael: *See*—
Head, Micheal David; and Thompson, John Robert Michael, 3,688,474.
Thompson, John S.: *See*—
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Thompson, John Stewart, to Bell Telephone Laboratories, Incorporated. Time division switching system. 3,649,763, 3-14-72, Cl. 179-15.
Thompson, John T.: *See*—
Anderson, Karl R., 3,699,284.
Gillemot, George W.; and Thompson, John T., 3,654,584.
Gillemot, George W.; and Thompson, John T., 3,665,991.
Gillemot, George W.; and Thompson, John T., 3,676,836.
Thompson, John T.; and Gillemot, George W. Safety package assembly and divider clamp therefor. 3,639,952, 2-8-72, Cl. 24-255.
Thompson, John T.; and Gillemot, George W. Pressure equalizing accessory installable along the top side of electrical cables. 3,694,566, 9-26-72, Cl. 174-135.000.
Thompson, John T.; and Gillemot, George W. Grounding connector. 3,699,494, 10-17-72, Cl. 339-14.00r.
Thompson, Joseph: *See*—
Main, Henry Allan; and Thompson, Joseph, 3,699,259.
Thompson, Josephus B.; deceased (by Stade, K. E.; administrator), to Columbia Broadcasting System, Inc. Snare drum having tapered and flanged cast metal shell, and cast strainer-mounting means. 3,635,119, 1-18-72, Cl. 84-411.
Thompson, Kirk L.: *See*—
Marsh, Frederick L.; and Thompson, Kirk L., 3,663,304.
Thompson, Lawrence E. Method and apparatus for making perforated sign templates. 3,705,291, 12-5-72, Cl. 219-384.000.
Thompson, Lloyd M. Radioactive macroaggregates of serum albumin. 3,674,900, 7-4-72, Cl. 424-1.000.
Thompson, Lloyd W.; deceased (by Thompson, Mildred B.; administratrix), to Cone Mills Corporation, mesne. Method and apparatus for constructing fabric enclosed springs. 3,668,816, 6-13-72, Cl. 53-28.000.
Thompson, Luther G.: *See*—
Nooker, Eugene L.; Thompson, Luther G.; Varney, Glenn E.; and Dietz, Victor J., 3,690,257.
Thompson, Michael Ainley, to Lucas, Joseph, (Industries) Limited. Thyristor circuits. 3,639,783, 2-1-72, Cl. 307-252.
Thompson, Mildred B.: *See*—
Thompson, Lloyd W., 3,668,816.
Thompson, Morice William, to Imperial Chemical Industries Limited. Benzene polycarboxylic acid esters. 3,639,329, 2-1-72, Cl. 260-31.4.
Thompson, Morice William; and Walbridge, Derek John, to Imperial Chemical Industries Limited. Process for preparing a dispersion of polymer particles in an organic liquid. 3,686,114, 8-22-72, Cl. 260-34.200.
Thompson, N. H., Jr., to Superior Bands, Inc. Elastic power transmission belt. 3,631,733, 1-4-72, Cl. 74-238.
Thompson, Neil J.: *See*—
Dean, Frank J., Jr.; and Thompson, Neil J., 3,687,055.
Thompson, Norman John: *See*—
Broderick, Rory Wilson, 3,664,548.
Thompson, Orla D. Barbecue. 3,667,376, 6-6-72, Cl. 99-443.
Thompson, Orla Denley. Barbecue. 3,657,996, 4-25-72, Cl. 99-443.
Thompson, Owen R., to Eaton Corporation. Water-cooled viscous coupling. 3,661,237, 5-9-72, Cl. 192-58.
Thompson, Paige W., to General Electric Company. Condition responsive switch mechanism. 3,654,578, 4-4-72, Cl. 337-317.
Thompson, Paul, to Conrac Corporation. Microphone cartridge with amplifier. 3,660,602, 5-2-72, Cl. 179-1.
Thompson, Philip H. Practice device. 3,680,230, 8-1-72, Cl. 35-74.000.
Thompson, Phillip G.: *See*—
Talbott, Richard L.; and Thompson, Phillip G., 3,632,606.
Thompson, Phillip G., to Minnesota Mining and Manufacturing Company. Fluoroxidants. 3,692,815, 9-19-72, Cl. 260-453.00r.
Thompson, Quentin E.; Reid, Stanley L.; and Weiss, Richard W., to Monsanto Company. Antioxidant for ester base functional fluids. 3,684,711, 8-15-72, Cl. 252-32.500.
Thompson, Quentin E., to Monsanto Company. Sewage disposal system. 3,706,664, 12-19-72, Cl. 210-65.
Thompson, Ralph Brewster, to Nalco Chemical Company. Electrolytic softening of water. 3,652,433, 3-28-72, Cl. 204-152.
Thompson, Ransom S.: *See*—
Pinto, James C.; and Thompson, Ransom S., 3,662,957.
Thompson, Ray E.: *See*—
Crownover, Joseph W.; Wilhelm, John I.; and Thompson, Ray E., 3,696,419.
Thompson, Rayford L. Game ball. 3,687,452, 8-29-72, Cl. 273-58.00a.
Thompson, Raymond; and Guest, Ashley W., to Plessey Company Limited, The. Differential phase shift keying modulation system. 3,699,479, 10-17-72, Cl. 332-16.00r.
Thompson, Raymond V.: *See*—
Hunter, John M.; and Thompson, Raymond V., 3,661,059.
Thompson, Raymond V., to Chandler Evans Inc. Vertical lift machine. 3,697,020, 10-10-72, Cl. 244-12.000.
Thompson, Richard, to Lisk, G. W., Company, Inc. Solenoid construction. 3,633,139, 1-4-72, Cl. 335-255.
Thompson, Richard D.: *See*—
Beeley, Michael G.; Frisby, Paul W.; and Thompson, Richard D., 3,644,085.
Beeley, Michael G.; and Thompson, Richard D., 3,696,523.
Thompson, Richard D., to McGraw-Edison Company. Multiple station laundry feeder and control therefor. 3,664,046, 5-23-72, Cl. 38-143.000.
Thompson, Richard F., to Husted, Royce Hill. Power ski. 3,645,348, 2-29-72, Cl. 180-5.
Thompson, Richard L., to General Electric Company. Lamp support device. 3,694,649, 9-26-72, Cl. 240-153.000.
Thompson, Robert B.: *See*—
Machell, Eugene F.; Wylie, John E.; and Thompson, Robert B., 3,662,013.
Thompson, Robert B.; Thompson, Donald O.; Kraut, Edgar A.; and Lim, Teong C., to North American Rockwell Corporation. Low velocity highly anisotropic elastic materials. 3,699,481, 10-17-72, Cl. 333-30.00r.
Thompson, Robert C.: *See*—
Murphy, Patrick J.; and Thompson, Robert C., 3,662,258.
Thompson, Robert C., to Brunswick Corporation. Lane resurface level control including a variable dead band motor control. 3,702,149, 11-7-72, Cl. 144-117.00c.
Thompson, Robert G., to Du Pont de Nemours, E. I., and Company. Products. 3,635,902, 1-18-72, Cl. 260-75.
Thompson, Robert H., to Van Dorn Company. Apparatus for controlling an injection molding machine. 3,647,309, 3-7-72, Cl. 425-139.
Thompson, Robert I. Composite cube puzzle formed of numeral bearing component cube groups. 3,638,949, 2-1-72, Cl. 273-157.
Thompson, Robert I. Three-dimensional checker game apparatus. 3,656,755, 4-18-72, Cl. 273-131.
Thompson, Robert M.: *See*—
Czurak, Richard H.; and Thompson, Robert M., 3,705,794.
Thompson, Robert M., to Sun Oil Company. Preparation of 2,5-dimethylhexadienes. 3,692,743, 9-19-72, Cl. 260-681.000.
Thompson, Robert Q.; Stark, William M.; and Higgens, Calvin E., to Lilly, Eli, and Company. Antibiotic nebramycin and preparation thereof. 3,691,279, 9-12-72, Cl. 424-116.000.
Thompson, Robert R., to Amoco Production Company. Conversion of underground sulfur deposits. 3,645,551, 2-29-72, Cl. 299-5.
Thompson, Ronald: *See*—
Shull, Robert W.; and Thompson, Ronald, 3,704,663.
Thompson, Ronald E.: *See*—
Ryan, Patrick W.; and Thompson, Ronald E., 3,652,520.
Thompson, Roy G., to Sale-Niagara, Inc. Ticket envelope. 3,655,119, 4-11-72, Cl. 229-72.
Thompson, Sam W.; and Holdingsworth, Roy B. Portable animal toilet. 3,688,741, 9-5-72, Cl. 119-1.000.
Thompson, Sheldon. Vacuum chuck and related apparatus and methods. 3,652,075, 3-28-72, Cl. 269-21.
Thompson, Sheldon L.; Kress, Rene F.; Olenzak, Albert T.; and Steinmetz, Ib, to Sun Oil Company of Pennsylvania. Oil stabilizing sequential hydrocracking and hydrogenation treatment. 3,666,657, 5-30-72, Cl. 208-58.000.
Thompson, Theodore G., to Chris-Craft Industries, Inc. Outboard motorboat with inboard mount. 3,702,485, 11-14-72, Cl. 9-6.000.
Thompson, Thomas L. Abrasive motor slot cleaning nozzle. 3,662,497, 5-16-72, Cl. 51-11.000.
Thompson, Tom H. Fail-safe hydraulic brake apparatus. 3,666,059, 5-30-72, Cl. 188-106.00r.
Thompson, Tom H. Disc brake caliper assembly. 3,675,742, 7-11-72, Cl. 188-72.500.
Thompson, Tom H. Hydraulic disc brake construction. 3,675,743, 7-11-72, Cl. 188-72.500.
Thompson, Tommy Lewis, to Life Support, Inc. Chemical oxygen generator. 3,702,305, 11-7-72, Cl. 252-187.000.
Thompson, Vernon R.: *See*—
Kasak, August; Thompson, Vernon R.; and Moll, John H., 3,698,962.
Thompson, Vernon R.; and Diehl, Robert W., to Crucible Inc. Method for producing powdered metals and alloys. 3,646,177, 2-29-72, Cl. 264-12.
Thompson, Wallace W., to North American Aviation, Inc. Castable nitrate propellants. 3,692,598, 9-19-72, Cl. 149-19.000.

Thompson, Walter W., to Emerson Electric Co. Portable partition system. 3,690,365, 9-12-72, Cl. 160-135.000.
Thompson, Wendell L.: *See—*
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Thompson, Wilbur O. Portable bedpan carrier. 3,666,131, 5-30-72, Cl. 214-621.
Thompson, William B.: *See—*
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Thompson, William F.: *See—*
Peck, Merrill V.; Thompson, Edwin P.; Thompson, William F.; and Peck, Robert M., 3,685,377.
Thompson, William H.: *See—*
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Thompson, William L.: *See—*
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Thompson, William M. Therapeutic rocker having lateral and longitudinal rocking motion. 3,697,131, 10-10-72, Cl. 297-258.000.
Thompson, William R.: *See—*
Razdan, Raj K.; Thompson, William R.; Granchelli, Felix E.; and Pars, Harry G., 3,661,919.
Razdan, Raj K.; and Thompson, William R., 3,707,474.
Thompson, Willis F. Blade sharpeners. 3,648,414, 3-14-72, Cl. 51-208.
Thompson, Wm. T., Co.: *See—*
La Barbera, Robert R., 3,692,916.
Thompson-Canfield Inc.: *See—*
Thompson, Edwin R., 3,668,807.
Thoms, William C., to Berg Electronics, Inc. Bobbin lugger. 3,664,004, 5-23-72, Cl. 29-203.00d.
Thoms, William C.; and Mancini, Lloyd, to Berg Electronics, Inc. Connector block and method of making the same. 3,665,375, 5-23-72, Cl. 339-192.
Thomsen, Jack W.; Nupnau, Arthur E.; Kim, Raymond W. H.; Cherniavskyj, Jaroslav; and Iha, Kiyoshi, to Bell & Howell Company. Motion picture projector. 3,635,548, 1-18-72, Cl. 352-79.
Thomsen Jack W., to Bell & Howell Company. Web handling apparatus. 3,685,766, 8-22-72, Cl. 242-192.000.
Thomsen, Jack W.; Nupnau, Arthur E.; Kim, Raymond W. H.; and Cherniavskyj, Jaroslav, to Bell & Howell Company. Motion picture projector. 3,701,595, 10-31-72, Cl. 352-124.000.
Thomsen, James P.: *See—*
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Thomson, Don N.; Connolly, James J.; and Zeiger, Kenneth K., to Magnavox Company, The. Doppler radar automatic signal detection apparatus. 3,643,257, 2-15-72, Cl. 343-7.7.
Thomson, Douglas Hogg, to Imperial Chemical Industries Limited. Polymerization of polyamides in the presence of aqueous dispersions of phenolic antioxidants. 3,654,223, 4-4-72, Cl. 260-45.95.
Thomson, Elihu Craig, to Electronics Corporation of America. Radiation sensitive condition responsive system. 3,651,327, 3-21-72, Cl. 250-217.
Thomson, Ernest F., to K M S Industries, Inc. Headset with sheathed insulated-conductors for connection of earphones. 3,681,540, 8-1-72, Cl. 179-156.000.
Thomson, Faulkner C. System for the detection and control of compressor stall. 3,677,000, 7-18-72, Cl. 60-39.280.
Thomson, George A., to Bulldog Lacing Limited. Belt lacing machine. 3,686,738, 8-29-72, Cl. 29-243.510.
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Thomson, J. Brent, to Hercules Incorporated. Silane sulfonyl azides. 3,697,551, 10-10-72, Cl. 260-349.000.
Thomson, J. Brent, to Hercules Incorporated. Silyl-azidoformates. 3,705,911, 12-12-72, Cl. 260-349.000.
Thomson, J. Brent, to Hercules Incorporated. Adhesion promoting agents. 3,706,592, 12-19-72, Cl. 117-72.000.
Thomson, Jack, to Imperial Chemical Industries, Limited. Staple fibres for blends. 3,686,850, 8-29-72, Cl. 57-157.00r.
Thomson, James F. Apparatus for blast treating articles. 3,643,380, 2-22-72, Cl. 51-13.
Thomson, John Crawford, to Tube Headings Limited. Construction of tunnels. 3,631,680, 1-4-72, Cl. 61-42.
Thomson, John, Jr.: *See—*
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Thor, Charles C. Removable silage chopper. 3,664,098, 5-23-72, Cl. 56-13.9.
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Thorne, David E., to Beecham Group Limited. Acetyl glycine amides. 3,657,341, 4-18-72, Cl. 260-558.
Thorne, John Paul, to Newcor, Inc. D.C. can welder. 3,632,949, 1-4-72, Cl. 219-64.
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Thorne-Thomsen, Thomas, to Olin Mathieson Chemical Corporation. Quick connect-disconnect hose coupling. 3,635,501, 1-18-72, Cl. 285-34.
Thornell, Ernest La Verne, to Marlin Toy Products, Inc. Musical wristwatch toy. 3,706,156, 12-19-72, Cl. 46-175.00r.
Thornhill, William J.; and Welty, Richard O., to Phillips Petroleum Company. Signal generation. 3,649,842, 3-14-72, Cl. 307-106.
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Thornton, Dudley. Guide for aiming a cue ball at an object ball. 3,704,887, 12-5-72, Cl. 273-6.000.
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Thornton, James M., to Vesuvius Crucible Company. Stopper structure and combination of bottom pour receptacle and stopper. 3,632,026, 1-4-72, Cl. 222-559.
Thornton, La Verne; and Stuart, Gerald L., to Forrest Paschal Machinery Company. Apparatus for sensing and ejecting bricks of improper size. 3,666,093, 5-30-72, Cl. 209-74.000.
Thornton, Marvin L., to Ciba-Geigy Corporation. Adapter for filling head for filling aerosol dispenser. 3,636,993, 1-25-72, Cl. 141-20.
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Thornton, William A., to Westinghouse Electric Corporation. Discharge device which utilizes a mixture of two fluorescent materials. 3,707,641, 12-26-72, Cl. 313-109.000.
Thornton, William A., Jr.; and Unglert, Melvin C., to Westinghouse Electric Corporation. Color-corrected high-pressure mercury-vapor lamp. 3,670,194, 6-13-72, Cl. 313-109.000.
Thornton, William A., Jr., to Westinghouse Electric Corporation. Vapor lamp which incorporates a special phosphor coating. 3,707,642, 12-26-72, Cl. 313-109.000.
Thornton, William S. Changeable sign. 3,673,720, 7-4-72, Cl. 40-125.00r.
Thornton-Trump, Walter E. Orchard machine. 3,667,190, 6-6-72, Cl. 53-59.
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Thorp, Richard Conrad, to American Can Company. Easy opening container closure. 3,701,454, 10-31-72, Cl. 220-54.000.
Thorp, William; and Jones, Charles Trevor, to Ferranti Limited. Semiconductor strain transducers. 3,662,312, 5-9-72, Cl. 338-4.
Thorpe, Allan C., to International Business Machines Corporation. Operator guidance system. 3,631,606, 1-4-72, Cl. 35-8.
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Thorpe, Laurence Joseph, to RCA Corporation. Special effects generators for providing iris-type television displays. 3,671,667, 6-20-72, Cl. 178-6.800.
Thorpe, Laurence Joseph, to RCA Corporation. Special effects generator. 3,689,694, 9-5-72, Cl. 178-6.800.
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Thorsman, Oswald Willy, to Thorsman, AB & Co. Current transmitting coupling between electric lines. 3,633,148, 1-4-72, Cl. 335-19.

Thorsoe, Flemming; and Jensen, Arne, to Danfoss A/S. Step switch. 3,646,365, 2-29-72, Cl. 307-252.

Thorsrud, Ole J.; and Thompson, Howard G., to Massey-Ferguson Inc. Earthworking implement. 3,662,839, 5-16-72, Cl. 172-266.

Thorstenson, Rolf A., to Avco Corporation. Turbine blade having a cooled laminated skin. 3,672,787, 6-27-72, Cl. 416-97.000.

Thorud, Richard A., to Toro Manufacturing Corporation. Folding handle latch. 3,649,997, 3-21-72, Cl. 16-111.

Thorud, Richard A.; Snegoski, James J.; and Hasenbank, Kenneth N., to Toro Manufacturing Corporation. Electric start for mowers. 3,696,593, 10-10-72, Cl. 56-17.500.

Thorwest, Harald; Lehmann, Helmut; Lange, Helmut; Schlossarek, Udo; Siefen, Jakob; and Mathner, Hermann, to Agfa-Gevaert Aktiengesellschaft. Method of and apparatus for checking the sealing of a film cassette. 3,688,567, 9-5-72, Cl. 73-88.00b.

Thourson, Thomas L.; and Hauser, Oscar G., to Xerox Corporation. Forms overlay technique using tesi. 3,653,891, 4-4-72, Cl. 96-1.

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Thrasher, Elbridge W., to Masonite Corporation. Method and apparatus for operating a rotary saw. 3,645,304, 2-29-72, Cl. 143-169.

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Threadline Fastener Corporation: *See*—
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Throckmorton, Morford C., to Goodyear Tire & Rubber Company, The. Binary catalyst system for the polymerization of diolefins. 3,640,989, 2-8-72, Cl. 260-99.3.

Throckmorton, Morford C., to Goodyear Tire & Rubber Company, The. System for the polymerization of conjugated diolefins. 3,649,605, 3-14-72, Cl. 260-82.1.

Throckmorton, Morford C., to Goodyear Tire & Rubber Company, The. Preparation of high 1,4-polypentadienes. 3,657,205, 4-18-72, Cl. 260-82.1.

Throckmorton, Morford C.; and Saitman, William M., to Goodyear Tire & Rubber Company, The. Diolefins ternary catalyst systems for the polymerization of conjugated. 3,676,411, 7-11-72, Cl. 260-82.100.

Throckmorton, Peter E., to Ashland Oil, Inc. Process for preparing heterocyclic polyols and ether derivatives. 3,644,404, 2-22-72, Cl. 260-327.

Thron, John E.; Woods, William E.; Bellettiere, Ronald; and Stein, Howard, to Honeywell Inc. Multiprogrammable, multiprocessor computer system. 3,648,252, 3-7-72, Cl. 340-172.5.

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Throop, Lewis J., to Syntex Corporation. Preparation of 9,11-dichloro steroids. 3,674,778, 7-4-72, Cl. 260-239.55d.

Thrower, Keith R., to Racal Instruments Limited. Frequency synthesizing system. 3,702,441, 11-7-72, Cl. 328-14.000.

Thrun, Paul H. Vehicle pollution control unit. 3,700,029, 10-24-72, Cl. 165-51.000.

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Thuillier, Yvonne, to Rolland, Albert, S.A. Process for obtaining and preserving stable bacterial variants. 3,669,846, 6-13-72, Cl. 195-96.000.

Thuillier, Yvonne, to Laboratories Albert Rolland. Process for obtaining extracts from animal tissues. 3,676,551, 7-11-72, Cl. 424-103.000.

Thuillier, Yvonne, to Rolland, Albert, S.A. Antihypertensive compositions. 3,683,070, 8-8-72, Cl. 424-103.000.

Thuillier, Yvonne. Compositions containing a heart extract. 3,691,274, 9-12-72, Cl. 424-95.000.

Thuler, Oscar, to Canrad Precision Industries, Inc. Device for illuminating flat carriers with markings. 3,701,900, 10-31-72, Cl. 250-71.00r.

Thuler, Oscar, to Conrad Precision Industries, Inc. Method for producing tubular radioactive light sources. 3,706,543, 12-19-72, Cl. 65-105.000.

Thum, Egon, to Siemens Aktiengesellschaft. Ironless direct-current machine having a normal conducting rotor and a superconducting excitation system. 3,670,187, 6-13-72, Cl. 310-10.000.

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Thumberger, Harold C. Apparatus for manufacturing rotogravure printing roll. 3,655,286, 4-11-72, Cl. 355-85.

Thumm, Helmut; and Schaich, Willy, to Voith, J. M., GmbH. Two press grinder constructed for easy wheel replacement. 3,690,572, 9-12-72, Cl. 241-151.000.

Thumm, Wilhelm: *See*—
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Thunberg, Jon C.; and Philbrook, James E., to Grace, W. R., & Co. Process for the manufacture of ferrocyanide compounds. 3,699,214, 10-17-72, Cl. 423-367.000.

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Thurston, Warren M., to Atomic Energy of Canada Limited. Sampling device for mass spectrometric analysis. 3,681,598, 8-1-72, Cl. 250-41.9.
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Tiemann, Jerome J.; and Gitzendanner, Louis G., to General Electric Company. Magnetic transducer having a composite magnetic core structure. 3,673,353, 6-27-72, Cl. 179-100.20c.
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Timms, Peter L., to Owens-Illinois, Inc. Reaction products of silicon monoxide and aromatic compounds such as benzene and methods of making the same. 3,660,450, 5-2-72, Cl. 260-448.2.
Timms, Rayford W., to American Air Filter Company, Inc. Ice skating rink. 3,641,782, 2-15-72, Cl. 62-177.
Timofeev, Mikhail Mikhailovich; Sokolov, Vladimir Leonidovich; German, Samuil Iosifovich; Levenberg, Ninel Efimovna; and Popov, Nikolai Ivanovich. Coated electrode for electric arc welding of steel of various structure. 3,644,144, 2-22-72, Cl. 117-205.
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Timperman, Eugene L., to United States of America, Air Force, mesne. Thrust vectoring louver cascade. 3,638,884, 2-1-72, Cl. 244-12.
Timperman, Eugene L., to General Electric Company. VTOL propulsion system. 3,700,189, 10-24-72, Cl. 244-12.000.
Timreck, Albert E., to Pfizer Inc. Process for the manufacture of mono-alkali metal salts of α-carboxybenzylpenicillin. 3,686,168, 8-22-72, Cl. 260-239.100.
Tims, Jerry L.; and Hubbard, Vance M., to Precept, Incorporated. Sanitary shoe cover. 3,648,109, 3-7-72, Cl. 317-2.
Timson, William J., to Polaroid Corporation. Novel photographic products and processes. 3,697,269, 10-10-72, Cl. 96-3.000.
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Tinari, Louis E.; and Kamena, David H. Rotatable work support for a sewing machine. 3,650,231, 3-21-72, Cl. 112-260.
Tindal, James A., to North American Rockwell Corporation. Artificial heart. 3,668,708, 6-13-72, Cl. 3-1.000.
Tindal, James A. Building utility and service system. 3,670,764, 6-20-72, Cl. 137-357.000.
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Tindall, John B. Production of alkanolamines. 3,651,144, 3-21-72, Cl. 260-584.
Tindall, John Raymond, to Courtaulds Limited. Yarn treatment apparatus. 3,659,439, 5-2-72, Cl. 68-5.
Tinder, Edgar Karl, to Du Pont de Nemours, E. I., and Company. Synthetic organic fiber resistant to yellowing. 3,669,726, 6-13-72, Cl. 117-138.80n.
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Tiner, Nathan A.; and Muller, Andrew N., to United States of America, Air Force. Method for the development of hard coat seal surfaces. 3,642,519, 2-15-72, Cl. 117-93.1.
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Tinger, Harold G.; and Colombo, Edward A., to Mobil Oil Corporation. Blends of low density polyethylene and butene/ethylene copolymers and high tear strength blown film made therefrom. 3,694,524, 9-26-72, Cl. 260-897.00a.

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Tinnerman, George A. Method of forming a preformed groove cutting fastener structure. 3,683,438, 8-15-72, Cl. 10-86.00f.

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Tipton, Max E.; and Schultz, Wilmer R., to Schultz, Wilmer R., mesne. Modular seating assembly. 3,702,204, 11-7-72, Cl. 297-248.000.

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Tishken, Paul, to Fishken Products Co. Apparatus for cold rolling grating workstock. 3,653,245, 4-4-72, Cl. 72-187.

Tishken, Paul, to Tishken Products, Co. Workstock cutting apparatus. 3,707,103, 12-26-72, Cl. 83-113.000.

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Tolliver, Peter M., 1/3 to Genca, Samuel R. Gun holster. 3,664,558, 5-23-72, Cl. 224-1.00r.
Tolliver, Richard J., to PPG Industries, Inc. Antenna windshield. 3,680,132, 7-25-72, Cl. 343-713.000.
Tollkuhn, Arthur W., to Memorex Corporation. Magnetic tape cassette. 3,642,228, 2-15-72, Cl. 242-199.
Tollkuhn, Arthur W., to Memorex Corporation. Method of loading cassettes. 3,684,203, 8-15-72, Cl. 242-67.300.
Tolman, Thomas William Charles: *See—*
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Tolman, Thomas William Charles, to Brown and Williamson Tobacco Corporation. Tobacco-smoke filter. 3,693,632, 9-26-72, Cl. 131-266.000.
Tolmie, Robert J., to Sperry Rand Corporation. Cutter head for electric dry shaver. 3,648,367, 3-14-72, Cl. 30-43.6.
Tolmie, Robert J., to Sperry Rand Corporation. Control means for a rechargeable battery. 3,673,001, 6-27-72, Cl. 136-110.000.
Tolnai, Julius L.: *See—*
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Tolosa, Roberto. Method of coating dentures to provide a polished surface. 3,649,345, 3-14-72, Cl. 117-138.8.
Tolson, Bill A.: *See—*
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Tolson, Raymond C. Jr.: *See—*
Tolson, Raymond C. Sr.; and Tolson, Raymond C. Jr., 3,706,573.
Tolson, Raymond C. Sr.; and Tolson, Raymond C. Jr., to G. T. Products, Inc. Fried rice product and process for producing same. 3,706,573, 12-19-72, Cl. 99-80.00r.
Toma, Sam Z.: *See—*

Mathers, James E.; and Toma, Sam Z., 3,649,555.
Toma, Setsuo, to Nissan Jidosha Kabushiki Kaisha. Clutch with centrifugal dump valve. 3,647,037, 3-7-72, Cl. 192-106.
Tomado N.V.: *See—*
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Tomaiuolo, Theodore J. Telephone handset attachment for facilitating directory reading. 3,651,285, 3-21-72, Cl. 179-178.
Tomalia, Donald A., to Dow Chemical Company, The. 2,2'-Alkylenebis-2-oxazolines and oxazines. 3,639,395, 2-1-72, Cl. 260-240.
Tomalia, Donald A.; and Thomas, Robert J., to Dow Chemical Company, The. Monooxazoline and oxazine cured epoxy resins. 3,640,957, 2-8-72, Cl. 260-47.
Tomalia, Donald A.; and Thill, Bruce P., to Dow Chemical Company, The. Copolymers of bis-oxazolines and dithiol compounds as curing agents for polyepoxides. 3,670,046, 6-13-72, Cl. 260-830.
Tomalia, Donald A.; and Glesner, William K., to Dow Chemical Company, The. Polymeric adhesive containing a polyepoxide, a carboxy terminated polybutadiene and a bis-2-oxazoline. 3,673,274, 6-27-72, Cl. 260-836.000.
Tomalia, Donald A.; and Dickert, Yancey J., to Dow Chemical Company, The. Sulfur-containing 2-oxazoline and oxazine monomers and their polymers. 3,682,948, 8-8-72, Cl. 260-307.00f.
Tomalia, Donald A.; and Ooha, Narayanlal D., to Dow Chemical Company, The. Process for preparing 1,4-disubstituted piperazines. 3,697,524, 10-10-72, Cl. 260-268.0st.
Tomalia, Donald A., to Dow Chemical Company, The. 2-(Aryloxy)-2-thiazolinium compounds. 3,697,537, 10-10-72, Cl. 260-306.700.
Tomalinas, William R., Jr., to Roth-American, Inc. Playground apparatus. 3,674,262, 7-4-72, Cl. 272-85.000.
Toman, Joseph R.: *See—*
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Tomanec, Ladislav; and Pospisil, Karel, to Ceskoslovenska akademie ved. Tensometric gas and liquid pressure sensing element. 3,683,698, 8-15-72, Cl. 73-398.0ar.
Tomanek, Jerry J. Floating carrier. 3,635,291, 1-18-72, Cl. 172-573.
Tomanek, Martha nee Kunitzer, to Kalle Aktiengesellschaft. Developing electrostatic latent images with a mixture of positive and negative toners. 3,650,797, 3-21-72, Cl. 117-17.5.
Tomaschko, Heinrich: *See—*
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Tomashek, James R.: *See—*
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Curran, William Vincent; Ross, Adma Schneller; and Tomcufcik, Andrew Stephen, 3,689,652.
Tomelleri, Giordano. Apparatus for cutting fruit and removing stones therefrom. 3,633,641, 1-11-72, Cl. 146-28.
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Tomezsko, Edward S. J., to Atlantic Richfield Company. Catalytic oxidative dehydrogenation of paraffin. 3,697,614, 10-10-72, Cl. 260-683.300.
Tomiati, Umberto. Hair curl setting and drying device. 3,693,636, 9-26-72, Cl. 132-33.00r.
Tomica, Alojzy; and Blackwell, John Francis, to International Standard Electric Corporation. Apparatus for forming electric cables. 3,672,141, 6-27-72, Cl. 57-12.
Tomii, Kaoru: *See—*
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Tomilov, Andrei Petrovich; Klimov, Vladimir Alexeevich; and Varshavsky, Semen Lvovich. Method of electrochemical hydrodimerization of olefinic compounds. 3,661,739, 5-9-72, Cl. 204-73.
Tomimatsu, Yoshio, to Matsushita Electric Industrial Co., Ltd. Constant tension controller device for winder. 3,670,975, 6-20-72, Cl. 242-45.000.
Tomimori, Kiyoshi: *See—*
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Tomimura, Noboru: *See—*
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Tominaga, Hiroshi, to Tokyu Sharyo Seizo Kabushiki Kaisha. High hydraulic pressure forging device. 3,651,685, 3-28-72, Cl. 72-402.
Tominaga, Hiroshi; and Takamatsu, Masanobu, to Tokyo Sharyo Seizo Kabushiki Kaisha. Material forming apparatus utilizing hydraulic pressure. 3,681,959, 8-8-72, Cl. 72-60.000.
Tominaga, Naotugu: *See—*
Nakai, Tuneo; Ando, Akira; Minehisa, Setuzi; Kaneko, Shunsuke; Siraki, Yosinori; Inui, Tatuo; Nakazima, Hiroyuki; and Tominaga, Naotugu, 3,660,629.
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Tominaga, Yoshiitsu; Ogasawara, Takahisa; Tatemichi, Hidemaro; and Ito, Hiroo, to Toa Gosei Chemical Industry Co., Ltd. Process for the crystallization of optically active glutamic acid. 3,632,639, 1-4-72, Cl. 260-534.
Tominaga, Yoshio; Kawagoe, Hiroto; and Teranishi, Yuichi, to Hitachi, Ltd. Field effect semiconductor devices. 3,688,165, 8-29-72, Cl. 317-235.00r.
Tomingas, Henry R.; and Zook, Ralph P. Flexible vehicle wiper. 3,649,987, 3-21-72, Cl. 15-245.
Tomio, Takeuchi: *See—*
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Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. Sawtooth wave frequency divider circuit. 3,651,337, 3-21-72, Cl. 307-225.
Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. Frequency divider circuit for producing a substantially saw-tooth wave. 3,654,558, 4-4-72, Cl. 328-35.
Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. Control device for performance effects of an electronic musical instrument. 3,663,736, 5-16-72, Cl. 84-1.240.
Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. Vibrato effect producing apparatus using a plurality of reproducing heads which are individually reciprocally displaced relative to each other. 3,700,783, 10-24-72, Cl. 84-1.250.
Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. System for controlling tone modifying circuits by muscular voltage in electronic musical instrument. 3,705,948, 12-12-72, Cl. 84-1.240.
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Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, to Japanese National Railways and Sumitomo Metal Industries, Ltd. Method of removing residual stress for improving fatigue strength of boundary of heated zone. 3,652,345, 3-28-72, Cl. 14-134.

Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, to Japanese National Railways and Sumitomo Metal Industries, Ltd. Method of induction hardening for improving fatigue strength of boundary of heated zone. 3,652,346, 3-28-72, Cl. 148-154

Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, to Japanese National Railways and Sumitomo Metal Industries, Ltd. Method of induction hardening for improving fatigue strength of boundary of heated zone. 3,658,605, 4-25-72, Cl. 148-154

Tomita, Mamoru: *See—*
Nagasawa, Taro; Tomita, Mamoru; Obayashi, Tomokazu; Tamura, Yoshitaka; and Kenmotsu, Yoko, 3,674,500.

Tomita, Tamaki; and Suzuki, Akira, to Toyoda Koki Kabushiki Kaisha. Rotary pump. 3,632,232, 1-4-72, Cl. 417-300.

Tomita, Tamaki; and Suzuki, Akira, to Toyda Koki Kabushiki Kaisha. Ball nut screw assembly. 3,673,886, 7-4-72, Cl. 74-424.80r.

Tomita, Teiji: *See—*
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.

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Tomiyama, Eijiro; and Heim, John H., said Tomiyama assor. to Tomy Kogyo Co., Ltd. Motor-driven rolling toy. 3,667,156, 6-6-72, Cl. 46-243.

Tomiyama, Eijiro, to Tomy Kogyo Co., Ltd. Remotely controllable toy transporter for vehicles. 3,675,366, 7-11-72, Cl. 46-244.00a.

Tomiyama, Eijiro. Toy parking garage. 3,694,953, 10-3-72, Cl. 46-12.000.

Tomiyama, Eijiro, to Tomy Kogyo Co., Ltd. Track device for toy vehicle. 3,703,989, 11-28-72, Cl. 238-10.00e.

Tomiyama, Katsumi: *See—*
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Tomiyama, Takeshi; and Sudow, Masanobu, to Nippon Kokan Kabushiki Kaisha. Hull form of a ship provided with a cylindrical bow. 3,653,352, 4-4-72, Cl. 114-56.

Tomiyasu, Hiroshi; Inagaki, Tsuguya; Kajiura, Hiroshi; and Watanabe, Kinnosuke. Device for measuring flow rates of powdery and granular materials. 3,640,135, 2-8-72, Cl. 73-228.

Tomiyasu, Kiyo, to General Electric Company. Coolable slab laser. 3,665,335, 5-23-72, Cl. 331-94.5.

Tomiyasu, Kiyo, to General Electric Company. Waveguide process. 3,694,911, 10-3-72, Cl. 29-600.000.

Tomizawa, Kenji: *See—*
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Tomlin, Clive Dudley Spencer; and Mangalji, Anil Sunderji, to Imperial Chemical Industries Limited. Process for making 2,3,5-trichloro-4-pyridinol. 3,644,388, 2-22-72, Cl. 260-297.

Tomlin, Robert Derrick, to Magnatex Limited. Mounting means. 3,703,270, 11-21-72, Cl. 248-475.00a.

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Tomlinson, Charles W., to Acme Visible Records, Inc. Conveyor drop box. 3,672,663, 6-27-72, Cl. 271-64.000.

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Tomlinson, Lee H.: *See—*
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Tomlinson, Lee H., to General Electric Company. Momentum slot centrifugal type separator. 3,670,479, 6-20-72, Cl. 55-416.000.

Tomlinson, Norvin P. Miles per gallon meter. 3,635,079, 1-18-72, Cl. 73-114.

Tomlinson, Roy, to Connollys (Blackley) Limited. Method of impregnating and coating stranded bodies. 3,672,974, 6-27-72, Cl. 117-115.000.

Tomlinson, Thomas Alfred. Plumbing device. 3,704,729, 12-5-72, Cl. 138-90.000.

Tomlinson, Walter John, III: *See—*
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Tomlinson, William H., to Columbian Steel Tank Company. Discharge means for tanks or bins. 3,707,249, 12-26-72, Cl. 222-464.000.

Tommaney, Joseph W.; and Muscatell, Francis L., to Allegheny Ludlum Industries, Inc. Consumable electrode melting using a centrifugal cast electrode. 3,656,535, 4-18-72, Cl. 164-52.

Tommaney, Joseph W., to Allegheny Ludlum Steel Corporation. Power partition control for consumable electrode furnaces. 3,672,428, 6-27-72, Cl. 164-52.000.

Tommaney, Joseph W.; and Preston, Jack, to Allegheny Ludlum Industries, Inc. Consumable electrode melting. 3,687,187, 8-29-72, Cl. 164-52.000.

Tommasino, Luigi: *See—*
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Tomoda, Katsumi: *See—*
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Yasuda, Toshitaka; Katayama, Shiro; and Suzuki, Yutaka, 3,650,954.

Tomoitsu, Toshio; and Fujii, Tatsuo, to Nippon Kogaku K.K. Exposure meter having battery voltage compensating device. 3,648,579, 3-14-72, Cl. 95-10.

Tomokawa, Hideo: *See—*
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Tomomatsu, Hideo, to Jefferson Chemical Company, Inc. Condensation products of aluminum hydroxide and an aluminum alcoholate. 3,679,723, 7-25-72, Cl. 260-448.0ad.

Tomomitsu, Toshio: *See—*
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Tomomitsu, Toshio; and Fujii, Tatsuo, to Nippon Kogaku K.K. Exposure measuring device. 3,671,769, 6-20-72, Cl. 307-311.

Tomota, Miyaji; Ishikawa, Yutaka; Yamasaki, Hiroo; and Kurita, Yoshio, to Kabushikikaisha Yokogawa Denki Seisakusho (Yokogawa Electric Works, Ltd.). Current meter or flow meter. 3,691,830, 9-19-72, Cl. 73-194.00b.

Tomozaki, Riyouzou: *See—*
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Tomozawa, Atsushi, to Nippon Electric Company, Limited. Addition or subtraction circuit for the gray codes based on the modulus of 4. 3,659,090, 4-25-72, Cl. 235-176.

Tomozawa, Atsushi, to Nippon Electric Company, Limited. Frame synchronizing circuit for high clock frequency digital communication. 3,699,261, 10-17-72, Cl. 179-15.0bs.

Tomozuka, Haruki: *See—*
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Tompkins, Charles A., 50% to Tompkins, Ketsy Eileen. Tool-level indicator structure. 3,664,032, 5-23-72, Cl. 33-207.00r.

Tompkins, David R., to Schlumberger Technology Corporation. Methods and apparatus for inspecting tubular goods using a continuous signal calibrating system. 3,683,187, 8-8-72, Cl. 250-83.30d.

Tompkins, David T., to Schlumberger Technology Corporation. Apparatus for inspecting tubular goods using a radiation-focussing device for producing a substantially uniform composite radiation pattern. 3,683,186, 8-8-72, Cl. 250-83.30d.

Tompkins, Harold W., to Phillips Petroleum Company. Synthesis of diisopropyl ketone. 3,660,492, 5-2-72, Cl. 260-593.

Tompkins, James R.: *See—*
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Tompkins, Victor N.; Miller, Kent D.; Muraschi, Thelma F.; and Fenton, John W., II. Immunization methods against toxic effects of bacterial infection. 3,658,986, 4-25-72, Cl. 424-88.

Tompsett, Michael Francis, to English Electric Valve Company Limited. Camera system for producing a temperature image. 3,646,267, 2-29-72, Cl. 178-7.2.

Toms, Gerald Lance, to English Clays Lovering Pochin & Company Limited. Pigments. 3,674,529, 7-4-72, Cl. 106-306.000.

Tom's Hydraulic Supply: *See—*
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Tone, Frederick F., to Eastman Kodak Company. Method and apparatus for manufacturing aperture cards. 3,668,980, 6-13-72, Cl. 93-1.00r.
Tonegawa, Kakuji: *See—*
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Tonelli, Guido Antonio, to Alfa-Laval AB. Apparatus for removing teat cups. 3,690,300, 9-12-72, Cl. 119-14.080.
Toney, Jack, to Craft Master Corporation. Decorative composition. 3,635,832, 1-18-72, Cl. 252-301.30r.
Toney, Myron K.: *See—*
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Tong, Mathias, to Compagnie d'Applications Mecaniques a l'Electronique, Au Cinema et a l'Atomistique (C.A.M.E.C.A.). Infra-red spectrometers. 3,659,941, 5-2-72, Cl. 356-51.
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Torrey, Bradford M., to Charecogn Systems, Inc. Machine readable code track. 3,636,317, 1-18-72, Cl. 235-61.12.
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Torrington Company, The: *See—*
Alling, Richard L., 3,644,007.
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Touchette, Jennie Lee: *See—*
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Toulis, William J. Detection and classification system utilizing unipolar pulses. 3,686,669, 8-22-72, Cl. 343-55.00a.

Tourell, Alfred George. Process of liquifying and conching refined chocolate and an apparatus for performing the process. 3,663,231, 5-16-72, Cl. 99-236.
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Townsend, Curtis J. Manual fruit harvester. 3,701,242, 10-31-72, Cl. 56-328.00r.
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Townsend, Guy A., to Burroughs Corporation. Elastic mounting assembly. 3,635,466, 1-18-72, Cl. 271-52.
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Townsend, Keith Gerald; and Harlow, David Arthur, to Bentley Engineering Company Limited, The. Circular knitting machines. 3,703,819, 11-28-72, Cl. 66-93.000.
Townsend, Kenneth R. Ash ejecting and cleaning unit for tobacco pipes. 3,665,934, 5-30-72, Cl. 131-183.
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Townsend, Leyshon W., Jr.; and Wilburn, Warren E., to Owens-Illinois, Inc. Glass-forming apparatus. 3,660,067, 5-2-72, Cl. 65-302.
Townsend, Peter K., to AMP Incorporated. Electrical circuits and methods of fabrication. 3,681,743, 8-1-72, Cl. 339-218.00r.
Townsend, Ray T., to Townsend Engineering Company. Machine for injecting fluids into meat products. 3,687,058, 8-29-72, Cl. 99-257.000.
Townsend, Ray T., to Townsend Engineering Company. Automatic blade control mechanism for meat skinning machines. 3,703,199, 11-21-72, Cl. 146-130.000.
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Toyo Jozo Kabushiki Kaisha: *See—*
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Toyo Koatsu Industries, Incorporated: *See—*
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Toyo Rayon Company, Ltd.: *See—*
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Toyoda, Eiji; Noguchi, Masaaki; and Ito, Osamu, to Nippondenso Kabushiki Kaisha and Toyota Jidosha Kogyo Kabushiki Kaisha. Automatic transmission system having a variable speed changing point. 3,693,479, 9-26-72, Cl. 74-731.000.

Toyoda Koki Kabushiki Kaisha: *See—*
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Toyoda, Masashi; and Tawara, Yoshiyuki, to Nisshin Flour Milling Co., Ltd. Process for the production of vitamin D. 3,661,939, 5-9-72, Cl. 260-397.2.

Toyoda, Minoru: *See*—
Kitamura, Takuya; Haruna, Takashi; and Toyoda, Minoru, 3,682,001.

Toyoda, Yasushi; Kido, Kunizo; and Kashio, Hidetora, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for the preparation of vinylidene chloride-vinyl chloride copolymers. 3,658,778, 4-25-72, Cl. 260-87.7.

Toyoguchi, Mitsuru; and Iijima, Hiroshi, to Mitsubishi Oil Co., Ltd. Process for production of gilsonite-like butuminous material. 3,661,765, 5-9-72, Cl. 208-6.

Toyomasu, Ryota: *See*—
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Toyonaga, Ryuya; and Sato, Kazuo, to Nippon Hoso Kyokai. Porous layer of a secondary electron multiplier and a method of manufacturing the same. 3,672,989, 6-27-72, Cl. 117-224.000.

Toyooka, Morio: *See*—
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Toyooka, Tadao; Ueda, Hiromutsu; Nishida, Takeo; and Ono, Atsuo, to Matsushita Electric Industrial Co., Ltd. Electric toaster. 3,641,921, 2-15-72, Cl. 99-390.

Toyooka, Tadao; Ueda, Hiromutsu; Nishida, Takeo; and Ono, Atsuo, to Matsushita Electric Industrial Co., Ltd. Surface heater for a toaster. 3,694,623, 9-26-72, Cl. 219-200.000.

Toyoshima, Isao, to Murata Manufacturing Co., Ltd. Method of manufacturing an energy trapped type ceramic filter. 3,650,003, 3-21-72, Cl. 29-25.35.

Toyota, Eisuke: *See*—
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Tra, Josef, to Voith, J. M., G.m.b.H. Filter for cleaning suspensions. 3,692,183, 9-19-72, Cl. 210-415.000.

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Trabbic, Gerald W., to Eaton Corporation. Acceleration control valve. 3,704,588, 12-5-72, Cl. 60-53.00r.

Traber, Walter: *See*—
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Traber, Walter; and Weiss, Anton G., to Geigy Chemical Corporation. Unsymmertrical diphenyl carbonates. 3,634,484, 1-11-72, Cl. 260-463.

Traber, Walter; and Weiss, Anton G., to Ciba-Geigy Corporation. Diphenyl thiocarbonates. 3,637,790, 1-25-72, Cl. 260-455.

Traber, Walter; Margot, Alfred; and Gailay, Jean-Jacques, to Geigy Chemical Corporation. Anthelmintic compositions containing new carbamates and thiocarbamates and method of use. 3,676,561, 7-11-72, Cl. 424-300.000.

Traber, Walter; and Weiss, Anton G., to Ciba-Geigy Corporation. Unsymmetrical diphenyl carbonates. 3,681,249, 8-1-72, Cl. 252-106.000.

Traber, Walter; and Weiss, Anton G., to Ciba-Geigy Corporation. Antibacterial unsymmetrical diphenyl carbonates. 3,689,665, 9-5-72, Cl. 424-301.000.

Trabilcy, William J. System for electrically heating fluid-conveying pipe lines and other structures. 3,706,872, 12-19-72, Cl. 219-300.000.

Tracey, Victor Allen: *See—*
Ashcroft, Thomas Brian; Betteridge, Walter; and Tracey, Victor Allen, 3,689,320.

Trachsler, Fred A. Chain door latch. 3,669,483, 6-13-72, Cl. 292-264.000.

Trachtenberg, Joseph, to Interdynamics, Inc. Antenna for use with an automobile. 3,634,864, 1-11-72, Cl. 343-713.

Trachtenberg, William, to Eastman Kodak Company. Process of transferring an electrostatic charge pattern without using external pressure or electrode bias. 3,672,930, 6-27-72, Cl. 117-37.0le.

Trachtenberg, William, to Eastman Kodak Company. Toner concentration control apparatus. 3,674,353, 7-4-72, Cl. 355-3.000.

Tracked Hovercraft Limited: *See—*
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Cassidy, Patrick E.; and Lowell, Philip S., 3,648,350.
David, Donald J.; and Zipps, David L., 3,661,533.
Lester, William W., 3,647,665.

Tracton, Arthur Allen: *See—*
Gannon, John Allister; and Tracton, Arthur Allen, 3,707,526.

Tracy, Charles H. Apparatus for passing a ball through a series of concentric containers. 3,700,241, 10-24-72, Cl. 273-95.00r.

Tracy, Howard Clyde, Jr.: *See—*
Prussin, Samuel Benjamin; and Tracy, Howard Clyde, Jr., 3,659,755.

Tracy, John, Clinic: *See—*
Lowell, Edgar L.; and Lipsky, Aaron H., 3,648,388.

Tracy, Richard A., 1/3 to Preston, Birgit and to Prother, Charles V. Vehicle anti-theft device. 3,687,216, 8-29-72, Cl. 180-114.000.

Tracy, Robert A.: *See—*
Compton, Robert G.; Richmond, Ray S.; and Tracy, Robert A., 3,691,373.

Tracy, Robert D.; and Derouin, David J. Motor with motion conversion means. 3,703,653, 11-21-72, Cl. 310-24.000.

Tracy, Wayne R.: *See—*
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Tracy, William K., to International Telephone and Telegraph Corporation. Grounding foil for electrical connectors. 3,670,292, 6-13-72, Cl. 339-143.00r.

Traczyk, Edmond Michael: *See—*
Walker, Colin Graham; Leadbeater, Edward John; Darlington, Ralph Fredrick; Traczyk, Edmond Michael; and Kubilos, Charles A., 3,665,809.

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Traedway, Barney R.: *See—*
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Traffic & Safety Control Systems, Inc.: *See—*
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Trageser, Ludwig. Device for the occasional omission of backstitches on automatically controlled quilting and embroidery machines. 3,641,958, 2-15-72, Cl. 112-241.

Traglia, Patrick J.: *See—*
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Trahms, Harold R. Gang-plow. 3,666,018, 5-30-72, Cl. 172-669.000.

Trahn, Kenneth A.: *See—*
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Trainer, Richard P., to Shell Oil Company. Spent shale retort with sonic oscillator clinker cutter. 3,640,849, 2-8-72, Cl. 196-124.

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Trambarulo, Ralph Francis, to Bell Telephone Laboratories, Incorporated. Electro-optic quadrupole deflector. 3,702,722, 11-14-72, Cl. 350-150.000.

Tramex S.A.: *See—*
Tillie, Jean-Claude, 3,678,640.

Tramier, Bernard: *See—*
Bonzom, Albert; and Tramier, Bernard, 3,676,442.

Tramier, Bernard; and Bonzom, Albert, to Societe Nationale des Petroles d'Aquitaine. Synthesis of oxazoles. 3,635,999, 1-18-72, Cl. 260-307.

Trammell, James R., to Scanfax Systems Corporation. Cassette recording system using notched cassettes. 3,647,987, 3-7-72, Cl. 179-100.2.

Trammell, James R., to Scanfox Systems Corporation. Switching system for tape rewind. 3,648,951, 3-14-72, Cl. 242-190.

Trammell, James R., to Scanfax Systems Corporation. Recording head adjustment mechanism. 3,649,773, 3-14-72, Cl. 179-100.2.

Trammell, James R., to Scanfax Systems Corporation. Erase mechanism for a two-spindle tape cassette. 3,651,382, 3-21-72, Cl. 317-157.5.

Trampier, Charles R., Jr.: *See—*
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Tramposch, Herbert, to Pitney-Bowes, Inc. Credit card and method of luminescent printing. 3,679,448, 7-25-72, Cl. 117-1.000.

Tramuta, Salvatore S.: *See—*
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Trancik, Ronald J.; Moore, George G.; and Harrington, Joseph Kenneth, to Riker Laboratories, Inc. Substituted haloalkanesulfonanilides. 3,689,523, 9-5-72, Cl. 260-470.000.

Trane Company, The: *See—*
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Falk, George L.; and Jones, Daniel F., 3,646,773.
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Tranfield, George, to House, Chas. W., & Sons, Incorporated. Pile fabric method and product. 3,684,284, 8-15-72, Cl. 273-61.00r.

Tranier, Jean, to Office Technique des Trefiles. Apparatus for presetting the rotational speeds of parts used to create the deformation of a metal in order to obtain wires or strips, such machine blocks. 3,688,546, 9-5-72, Cl. 72-289.000.

Tranly Walls and Mini Courts (Proprietary) Limited: *See—*
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Travis, David Neil. Wavelength selective mirror systems. 3,704,061, 11-28-72, Cl. 350-171.000.
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Travor, Bruce, to United States of America, Army. Detonating fuze. 3,665,858, 5-30-72, Cl. 102-27.00r.

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Treadwell, Kenneth, to M & T Chemicals Inc. Flame retardant compositions comprising an inert filler, a halogen source and a phosphorus-containing compound and methods for their preparation. 3,635,821, 1-18-72, Cl. 252-8.1.

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Treherne, Thomas Harvey; and Coote, Ewart Peter, to International Standard Electric Corporation. Electron tube cooling system. 3,645,329, 2-29-72, Cl. 165-105.

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Treiber, Hans-Joerg; and Zimmermann, Frank, to Knoll AG Chemische Fabriken. Aminobenzylcycloalkylnitriles. 3,657,258, 4-18-72, Cl. 260-293.62.

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Treiber, Robert L., to Alcor Chemical Company, Inc. Composition and method for sealing anodized surfaces. 3,689,379, 9-5-72, Cl. 204-35.00n.

Treible, Edwin S., Jr., to Ingersoll-Rand Company. Work measurement system. 3,664,183, 5-23-72, Cl. 73-133.000.

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Trethaway, Edward J. Chair for the handicapped. 3,632,162, 1-4-72, Cl. 297-149.
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Tretter, Larry Lee Roy: *See—*
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Treuthart Robert L., to North American Rockwell Corporation. Optical shutter. 3,649,105, 3-14-72, Cl. 350-285.
Treveiler, Antoine Robert; and Wilke, Elroy E., to Standard Safety Equipment Co. Safety garment joint and method of making same. 3,653,690, 4-4-72, Cl. 285-226.
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Trevillyan, Alvin E.; and Vecbastiks, Ivars, to Atlantic Richfield Company. Preparation of phenylene diisocyanate by thermal decomposition of corresponding dinitrile sulfite. 3,670,003, 6-13-72, Cl. 260-453.00p.
Trevillyan, Alvin E., to Atlantic Richfield Company. Process for the recovery of cobalt catalyst. 3,673,154, 6-27-72, Cl. 260-524.
Trevisiol, Franco: *See—*
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Trevisiol, Franco, to AMP Incorporated, mesne. Electrical connector for a printed circuit board. 3,693,134, 9-19-72, Cl. 339-59.00m.
Trevor, John B., III. Analog-digital shaft position encoder. 3,670,324, 6-13-72, Cl. 340-347.0sy.
Trewella, Robert J., to Wyomissing Corporation. Combined package and winder for roll type bandages. 3,647,152, 3-7-72, Cl. 242-60.
Trewella, Robert J., to Wyomissing Corporation. Tear open package and tear seam therefor. 3,652,006, 3-28-72, Cl. 229-55.
Trexel, Helen E., to Da-Kor Products, Inc. 'Flemishing' method and articles. 3,649,586, 3-14-72, Cl. 260-33.6.
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Trezzini, Henri Louis; and Czaryski, Norbert, to B.C.T.I. Bureau de Coordination de Travaux Industrialises, S.a.r.L. Building construction. 3,693,308, 9-26-72, Cl. 52-293.000.
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Triangle Package Machinery Company: *See—*
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Trias, John A.: *See—*
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Tribken, Everett R.; and Miller, Frederic L., to United States of America, Navy. Pick-off. 3,671,904, 6-20-72, Cl. 336-132.000.

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Tricault, Gerard J.: *See—*
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Tricault, Yves P.; and Tricault, Gerard J. Household dish-heating appliance. 3,678,248, 7-18-72, Cl. 219-525.000.

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Trice, Blount C., to Continental Oil Company. Temperature regulator. 3,657,455, 4-18-72, Cl. 13-12.

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Tricot, Jean Gaston. Flame-adjuster of gas cigarette-lighter. 3,695,819, 10-3-72, Cl. 431-344.000.

Tridair Industries: *See—*
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Triem, Hermann; Wick, Manfred; Nitzsche, Siegfried; and Wegehaupt, Karl-Heinrich, to Wacker-Chemie G.m.b.H. Method of polymerizing siloxanes. 3,652,711, 3-28-72, Cl. 260-825.

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Trieschmann, Hans-Georg; Rau, Wolfgang; Mueller-Tamm, Heinz; and Pfannmueller, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Granular propylene polymers. 3,634,382, 1-11-72, Cl. 260-93.7.

Trieschmann, Hans-Georg; Wisseroth, Karl; Scholl, Richard; and Herbeck, Rudolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of propylene polymers. 3,639,377, 2-1-72, Cl. 260-93.7.

Trieschmann, Hans-Georg; Rau, Wolfgang; Jacobsen, Theodor; and Pfannmueller, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymerization of propylene with Ziegler catalysts in a stirred gas phase reactor. 3,652,527, 3-28-72, Cl. 260-93.7.

Trieschmann, Hans-Georg; Pfannmueller, Helmut; Gropper, Hans; Gierth, Volker; and Beck, Gilbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymerization of ethylene with 3-methyl-3-buten-1-ol. 3,664,988, 5-23-72, Cl. 260-80.75.

Trieschmann, Hans-Georg; Unterstenhoefer, Leo; and Berbner, Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Molding material based on bitumen. 3,673,141, 6-27-72, Cl. 260-28.5as.

Trieschmann, Hans-George: *See—*
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Trieste, Mario R.; Hall, Kenneth; and McCrady, Samuel, to Elastomer Seals, Inc. Sealing device. 3,653,305, 4-4-72, Cl. 94-18.

Trifunovic, Alexander L.; and Kase, Charles R., Jr., to Bancroft, Joseph, & Sons Co. Process for mechanically treating materials having a movable flexible retarder. 3,681,819, 8-8-72, Cl. 26-18.600.

Trifunovic, Alexnader L., to Bancroft, Joseph, & Sons, Co. Stuffer crimper with driven choke members for pressure control in the crimping zone. 3,707,299, 12-26-72, Cl. 28-1.600.

Trifunoxic, Alexander L.; Hodges, James R.; and Shick, Richard L., to Bancroft, Joseph, & Sons Co. Mechanical treatment of material. 3,641,234, 2-8-72, Cl. 264-282.

Trigg, Douglas F., to Canadian Patents and Development Limited. Phase-locked tracking filter. 3,668,566, 6-6-72, Cl. 333-17.000.

Trigg, Harry E.; and Mitchell, Luther W., to International Transportation Service Corporation. Spring driven traffic counter. 3,707,264, 12-26-72, Cl. 235-99.00a.

Triggiani, Leonard V.; and Sanchez, Moises G., to Grace, W. R., & Co. Process for preparing multi-component nuclear fuels. 3,671,453, 6-20-72, Cl. 252-301.10s.

Trigroup Industries, Ltd.: *See—*
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Trilling, Ted R., to United States of America, Navy. Variable resistance time delay circuit utilizing a coincidence circuit. 3,659,143, 4-25-72, Cl. 315-30.000.

Trilling, Theodore R. Differential amplifier. 3,638,132, 1-25-72, Cl. 330-69.

Trim, James H., to LTV Aerospace Corporation. Stray electrical energy detector circuit. 3,670,244, 6-13-72, Cl. 324-72.

Trimble, Averal T., Jr., to CaroChem Corporation. Method of dyeing natural and synthetic fibers. 3,667,900, 6-6-72, Cl. 8-173.000.

Trimble, Carter H.; and Strott, David B., to Molybdenum Corporation of America. Yttrium purification process. 3,640,678, 2-8-72, Cl. 23-22.

Trimble, Cebern B., to National Cash Register Company, The. Magnetic rod read only memory. 3,648,261, 3-7-72, Cl. 340-174.

Trimble, Cebern B., to National Cash Register Company, The. Automatic information reading system using photoluminescent detection means. 3,666,946, 5-30-72, Cl. 250-71.

Trimble, Cebern B.; and Skutt, Robert R., to National Cash Register Company, The. Miniature magnetic head. 3,672,043, 6-27-72, Cl. 29-603.000.

Trimble, Cebern B. Heat exchange container. 3,675,637, 7-11-72, Cl. 126-263.000.

Trimble, Cebern B., to National Cash Register Company, The. Method of a magnetic transducer. 3,685,144, 8-22-72, Cl. 29-603.000.

Trimble, David C.: *See—*
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Trimble, David Carlaw, to Bell Telephone Laboratories, Incorporated. Per-cycle basis frequency signal receiver. 3,671,939, 6-20-72, Cl. 340-171.000.

Trimble, David L.: *See—*
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Trimble, Lyne S. Method of making electrically conductive paper. 3,632,437, 1-4-72, Cl. 117-213.

Trimble, Philip K., to General Motors Corporation. Time delay circuit. 3,693,101, 9-19-72, Cl. 328-177.000.

Trimble, Robert L., to Sinclair-Koppers Company. Foamed polymer particles of distinctive shape and method of making same. 3,697,454, 10-10-72, Cl. 260-2.50b.

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Trimpe, Clarence W.; and Beldon, Roy A., to Rotary Hoes Ltd. Tillage device. 3,698,485, 10-17-72, Cl. 172-65.000.

Trimpler, Walter, to Diehl. Synchronous alarm clock mechanism. 3,672,151, 6-27-72, Cl. 58-5.000.

Trina, Inc.: *See—*
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Trinca, Celio: *See—*
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Kjellberg, Finn Andre; Lemvig, Svend E. N.; and Kjellberg, Bent I., 3,665,528.
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Triplett, Lee, to Expando Products Company. Shaft securement structure. 3,651,651, 3-28-72, Cl. 61-45.
Triplett, Milton J., to United States of America, Air Force. Natural circulation liquid pumping system in plume pumping system for test engines. 3,693,423, 9-26-72, Cl. 73-117.100.
Triplett, Robert D.; and Laue, Terry J., to Fedders Corporation. Annular sealing ring. 3,637,224, 1-25-72, Cl. 277-229.
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Tripp, Robert W., to Inductorsyn Corporation. High speed digital tracking system. 3,673,395, 6-27-72, Cl. 235-151.110.
Tripp, Robert W.; and Geller, Robert Z., to Inductosyn Corporation. Position measuring transformer having multiple independent sections for reduction of measurement errors. 3,673,585, 6-27-72, Cl. 340-198.000.
Tripp, Robert W., to Inductosyn Corporation. Trigonometric signal generator and machine control. 3,686,487, 8-22-72, Cl. 235-151.300.
Tripp, Terence Gordon, to Monsanto Chemicals Limited. Production of sols. 3,645,865, 2-29-72, Cl. 204-96.
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Tritchler, Joseph J., to International Telephone and Telegraph Corporation. Ribbon grid for electron tubes. 3,683,229, 8-8-72, Cl. 313-350.000.
Tritenne, Claude H. Skeet shooting arrangement. 3,667,389, 6-6-72, Cl. 102-34.100.
Tritsch, Peter R. Key identification system having key code control. 3,639,906, 2-1-72, Cl. 340-149.
Tritt, Paul G.; and Buza, Michael J. Valve mechanism for ice removal system. 3,693,916, 9-26-72, Cl. 244-134.00a.
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Triumph Werke Nurnberg AG: *See—*
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Trivedi, Pankajkumar Mahasukhrai, to Michigan Chemical Corporation. Production of stabilized aluminum bromide solutions. 3,666,686, 5-30-72, Cl. 252-429.
Trivero, Mario. Track vehicle suitable to be used on sloping lands, the trimming movements of which are controlled by an oleodynamic device. 3,658,146, 4-25-72, Cl. 180-9.52.
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Troccoli, Arthur M., to Thomas & Betts Corporation. Molded corona shield for a high voltage coupling. 3,702,372, 11-7-72, Cl. 174-73.00s.
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Troeger, Henry, to Bendix Corporation, The. Self-energizing torque limiting disc clutch. 3,677,378, 7-18-72, Cl. 192-54.00r.
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Troitino, Manuel Lopez. Aircraft with separable cockpit. 3,703,265, 11-21-72, Cl. 244-13.000.
Trojani, Benito Luigi. Pipped pipes and manufacturing method for said pipped pipes. 3,705,972, 12-12-72, Cl. 219-107.000.
Trok, Benjamin, to International Standard Electric Corporation. Electronic converter. 3,665,290, 5-23-72, Cl. 321-47.000.
Troll, John; and Baker, Cole, to Iris Corporation, mesne. Apparatus for detecting the size and form of filamentary material by measuring diffracted light. 3,659,950, 5-2-72, Cl. 356-199.
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Tronser, Alfred. Process of manufacturing a trimmer capacitor. 3,675,288, 7-11-72, Cl. 29-25.410.
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Trost, Joseph C.; Bock, Robert V.; Gerbstadt, Frederick H.; Graham, William J.; Miles, Wilson D.; and Questa, Charles R., to Burroughs Corporation. Autonomous multiple-path input/output control. 3,675,209, 7-4-72, Cl. 340-172.500.
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Tsuji, Shigeo; and Shirouzu, Shunji, to Tokyo Shibaura Electric Co., Ltd. Semiconductor photoelectric converting device having spaced elements for decreasing surface recombination of minority carriers. 3,633,077, 1-4-72, Cl. 317-235.
Tsuji, Shoichi, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Rotary plate oil burner. 3,697,214, 10-10-72, Cl. 431-168.000.
Tsuji, Shu; and Tsuji, Hiroshi. Torque transmission member. 3,683,959, 8-15-72, Cl. 137-523.000.
Tsuji, Takao; and Yoshikawa, Minoru, to Canon Kabushiki Kaisha. Noise diminishing switching circuit for magnetic recording-reproducing device. 3,705,272, 12-5-72, Cl. 179-100.20k.
Tsuji, Tom T., to California Auto Radio, Inc. Cassette to cartridge tape player adapter unit with self contained drive mechanism. 3,644,684, 2-22-72, Cl. 179-100.2.
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Tsujimoto, Kazumi N., to Air Reduction Company, Incorporated. Electron beam gun. 3,701,915, 10-31-72, Cl. 313-82.000.
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Tsuk, Andrew G., to Grace, W. R., & Co. Demulsification of sulfonated oil emulsions. 3,637,521, 1-25-72, Cl. 252-326.
Tsuk, Andrew G.; and Kirk, Charles C., to Grace, W. R., & Co. Cationic water-soluble polyvinyl alcohol retention aid. 3,702,800, 11-14-72, Cl. 162-168.000.
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Tsukamoto, Masaaki; Fujii, Tatsuo; and Ono, Shigeo, to Nippon Kogaku K.K. Variable zig-zag resistor with taps. 3,675,179, 7-4-72, Cl. 338-190.000.
Tsukamoto, Shuji: *See—*
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Tsukuda, Kiyoshi; Kamei, Tatsya; and Ogawa, Takuzo, to Hitachi, Ltd. Multi-layer-type switch device. 3,688,164, 8-29-72, Cl. 317-235.000.
Tsukuda, Teruhiro; and Tsutsumi, Takashi, to Matsushita Electric Industrial Co., Ltd. Flyback transformer. 3,662,307, 5-9-72, Cl. 336-178.000.
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Tsunekawa, Munehisa, to Nippon Kogaku K.K. Anomalous dispersion optical glass having a good weather proof characteristic. 3,653,933, 4-4-72, Cl. 106-47.
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Tsuneta, Asahide; Tanaka, Hiroshi; and Kiriake, Yoshifumi, to Tokyo Shibaura Electric Co., Ltd. Shadow-mask having gradated rectangular apertures. 3,652,895, 3-28-72, Cl. 313-85.
Tsuneta, Asahide,; Ohta, Yasuo; Ikegaki, Makoto; Sawagata, Shinichi; and Sato, Fumiyuki, to Tokyo Shibaura Electric Co., Ltd. In-line type triple electron gun assembly. 3,659,133, 4-25-72, Cl. 313-70.
Tsuneta, Asahide; and Ikegaki, Makoto, to Tokyo Shibaura Electric Co., Ltd. Shadow-mask having rectangular apertures. 3,663,854, 5-16-72, Cl. 313-85.00s.
Tsuneta, Asahide; and Sawagata, Shinichi, to Tokyo Shibaura Electric Co., Ltd. Method for adjusting the space between cathode and first plate grid electrodes in an electron gun member. 3,667,824, 6-6-72, Cl. 316-23.
Tsuneta, Asahide; and Harao, Norio, to Tokyo Shibaura Electric Co., Ltd. Cathode ray tube with mutually intersecting focusing coils. 3,706,909, 12-19-72, Cl. 315-27.0gd.
Tsunetomi, Eiichi: *See—*
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Tsunoda, Kenneth. Vibration-damped tubular casing. 3,695,024, 10-3-72, Cl. 57-130.000.
Tsunoda, Kiyosh: *See—*
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Tsunoda, Satoshi, to Hokushin Electric Works, Ltd. Automatic film-loading projector. 3,704,942, 12-5-72, Cl. 352-158.000.
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Tsuruta, Masami; Ito, Shinji; and Otsuka, Ichiro, to Mitsui Toatsu Chemicals, Incorporated. Process for producing aromatic vinyl polymer compositions. 3,694,522, 9-26-72, Cl. 260-878.00r.
Tsuruta, Motohiro; Kimura, Hiroshiro; Koshimo, Akio; Nara, Hirohisa; Goto, Tokuju; Amemiya, Kunio; and Matusaka, Hideki, to Nippon Rayon Kabushiki Kaisha (Nippon Rayon Co., Ltd.). Process for imparting high elastic recovery to extensible knitted or woven fbrics and product obtained. 3,637,427, 1-25-72, Cl. 117-138.8.
Tsuruta, Tadao, to Nippon Kogaku K.K. Holographic method of forming contour lines in an image utilizing light of limited coherence length. 3,639,030, 2-1-72, Cl. 350-3.5.
Tsuruzawa, Teruya, to Nippon Seal Co., Ltd. Cleaning-brush. 3,648,318, 3-14-72, Cl. 15-105.
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Tsutsumivit, Hideo: *See—*
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Tsuzuki, Akira; and Suzuki, Choken, to Citizen Watch Co., Ltd. Calendar timepiece with month advancement mechanism for 29,30, or 31 day months. 3,673,789, 7-4-72, Cl. 58-58.000.
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Tsuzuki, Yoshiro. Method of water sealing segments. 3,671,346, 6-20-72, Cl. 156-145.000.
Tsvetkov, Krum Kostov; Ezekiev, Ezekiya Gueorguiev; Nikolov, Petko Petrov; and Otsetov, Vassil Christov, to DSO "Avtomatizatsia I Priborostroene". Automatic programming device for looms. 3,674,991, 7-4-72, Cl. 235-92.0pd.
Tsybukov, Igor Kirillovich: *See—*
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Tuba, Zoltan; Bor, Maria, nee Szabo; Komesz, Zoltan; Weitner, Eva, nee Vari; and Gorog, Sandor, to Richter Gedeon Vegyeszeti Gyar R.T. Process for the preparation of 21-deoxy-2 1-N-methylpiperazinyl-prednisolone and salts thereof. 3,705,150, 12-5-72, Cl. 20-239.500.

Tubal Industries, Inc.: *See—*
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Tuberman, Arthur H. Method and apparatus for pointing tubes. 3,695,087, 10-3-72, Cl. 72-402.000.

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Tucci, Edmond R.; Thayer, Helen I.; and Ward, John V., to Gulf Research & Development Company. Oxo process. 3,644,529, 2-22-72, Cl. 260-604.

Tucciarone, Joseph; and Genuth, Martin. Air-flo hair templet. 3,659,621, 5-2-72, Cl. 132-53.

Tuccinardi, Thomas E.; and Miller, Joseph W., Jr., to United States of America, Army. Circuit for generating a repeatable voltage as a function of temperature. 3,701,004, 10-24-72, Cl. 323-69.000.

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Tucker, Archie J., to Eastman Kodak Company. Mold having a slide plate for forming articles having a projection or recess. 3,679,339, 7-25-72, Cl. 425-242.000.

Tucker, Benjamin W.: *See—*
Sayigh, Adnan A. R.; Tucker, Benjamin W.; and Ulrich, Henri, 3,652,599.
Ulrich, Henri; and Tucker, Benjamin W., 3,637,810.

Tucker, Council A., to Natter Manufacturing Company. Inlet valve assembly for pneumatic system. 3,661,356, 5-9-72, Cl. 251-299.

Tucker, Council A., to Scott, E. Walter. Building panel construction and securement means therefor. 3,664,073, 5-23-72, Cl. 52-127.

Tucker, Council A., to Matter Mfg. Corporation. Wall-recessed suction cleaner. 3,706,184, 12-19-72, Cl. 55-356.000.

Tucker, Donald R.: *See—*
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Tucker, Eura, 25% to Sandford, Dean. Detachable wheels for boats. 3,659,868, 5-2-72, Cl. 280-47.32.

Tucker, Hal E. Smoker's pipe with built-in gaseous fuel lighter. 3,698,400, 10-17-72, Cl. 131-186.000.

Tucker, Harold H.; and Schwartz, Irwin, to Lowenstein Dyes & Cosmetics, Inc. Dyeing of human hair using ethylene glycol ethers. 3,632,290, 1-4-72, Cl. 8-10.1.

Tucker, Henry G.; and Donoski, Paul J., to Remington Arms Company, Inc. Elastic band type projecting device. 3,695,247, 10-3-72, Cl. 124-17.000.

Tucker, Huel C., to Monsanto Company. Thermostat circuit for electronic compartments. 3,634,653, 1-11-72, Cl. 219-50.

Tucker, Jacob S. Billfold construction. 3,651,848, 3-28-72, Cl. 150-38.

Tucker, James I.: *See—*
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Tucker, James I., to Mattel, Inc. Adjustable trestle. 3,653,626, 4-4-72, Cl. 248-371.

Tucker, Jasper J. Winch carrying snow grooming vehicle supported by skids and powered by an anchored drawline. 3,692,119, 9-19-72, Cl. 172-23.000.

Tucker, Linwood G., to Koppers Company, Inc. Charging hole lid and magnetic lid lifter apparatus. 3,689,369, 9-5-72, Cl. 202-251.000.

Tucker, Marion K.: *See—*
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Tucker, Martin: *See—*
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Tucker, Oliver M. Carburetor. 3,653,643, 4-4-72, Cl. 261-56.

Tucker, Robert V. Tobacco ash receiver. 3,698,401, 10-17-72, Cl. 131-235.00r.

Tucker, Robert W.: *See—*
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Tucker, Roger A., to Mead Corporation, The. Pallet type shipping container. 3,650,459, 3-21-72, Cl. 229-23.

Tucker, Roy G.; Blasenak, David H.; and Johnson, Ralph W. Spray mask. 3,702,607, 11-14-72, Cl. 128-142.700.

Tucker, Thomas N., to Dow Corning Corporation. Production of ultrapure semiconductor materials. 3,645,686, 2-29-72, Cl. 23-223.5.

Tucker, Virgil R.: *See—*
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Tucker, William B., to Photocircuits Corporation. Method for making an aluminum armature. 3,648,360, 3-14-72, Cl. 29-597.

Tucker, William Henry, to Anchor Hocking Corporation. Blank and display stand for stemware. 3,672,514, 6-27-72, Cl. 211-73.000.

Tucker, William M.; Gardner, Barrie; and Hayford, John W., to Eastman Kodak Company. Method and apparatus for electroplating cylindrical objects. 3,647,646, 3-7-72, Cl. 204-25.

Tuckey, Charles H.: *See—*
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Tuckey, Charles H.; and Schneider, Kenneth C., to Walbro Corporation. Diaphragm carburetor. 3,633,557, 1-11-72, Cl. 123-119.

Tuddenham, William M.: *See—*
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Tuddenham, William Marvin; and Adamson, David L., to Kennecott Copper Corporation. Method and apparatus for electrorefining particulate metallic materials. 3,682,798, 8-8-72, Cl. 204-108.000.

Tudury, Arthur F., to Bangor Punta Operations, Inc. Refrigeration and defrost system. 3,681,934, 8-8-72, Cl. 62-156.000.

Tuel, Donald F. Anchors with powered, movable flukes. 3,672,321, 6-27-72, Cl. 114-208.

Tuerk, Robert P. Truck stake arrangement. 3,692,354, 9-19-72, Cl. 296-36.000.

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Tuffias, Robert H.: *See—*
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Tuffnell, Derrick Percival; and Kemp, Stanley William, to General Motors Corporation. Filter elements for liquid filters. 3,662,895, 5-16-72, Cl. 210-439.000.

Tuft, Bernard R., to General Electric Company. Glass passivated double beveled semiconductor device with partially spaced preform. 3,643,136, 2-15-72, Cl. 317-234.

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Tuggle, Ray; Graves, Richard H.; and De Rouen, Ray J., to Texaco Inc. Apparatus for preventing oil pollution. 3,638,796, 2-1-72, Cl. 210-170.

Tugwell, Lewen B. O., to Shattaline Limited. Shattered resins. 3,639,549, 2-1-72, Cl. 264-51.

Tuhro, Richard H.; and Kapsambelis, Christos B., to Computer Indentics Corporation. Scanner/decoder multiplex system. 3,668,409, 6-6-72, Cl. 250-236.000.

Tuite, Robert J. Brightener compositions. 3,684,729, 8-15-72, Cl. 252-301.20w.

Tuitt, Milton James, to International Paper Company. Web-lock carton. 3,701,415, 10-31-72, Cl. 206-45.140.

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Tulagin, Vsevolod, to Xerox Corporation. Quinacridone pigments in electrophotographic imaging. 3,667,945, 6-6-72, Cl. 96-1.

Tulagin, Vsevolod, to Xerox Corporation. Imaging system. 3,669,872, 6-13-72, Cl. 204-299.000.

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Tullos, Aubrey R.; and Creed, Leslie H. Reservoir type inking pen system. 3,644,933, 2-22-72, Cl. 346-140.

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Tulp, Theodorus Joannes; Appels, Johannes Arnoldus; and Kooi, Else, to U.S. Philips Corporation. Deep depletion semiconductor device with surface inversion preventing means. 3,678,347, 7-18-72, Cl. 317-235.00r.

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Tumbiolo, Barney. Security bar lock assembly. 3,655,229, 4-11-72, Cl. 292-148.

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Tupper, Willis E.; and Hanson, John R., to Dexter Automatic Products Co., Inc. Primer pump. 3,664,774, 5-23-72, Cl. 417-560.000.

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Tur, Charles J., to Smith, A. O., Corporation. Small signal amplifier particularly for flow meter monitoring. 3,681,984, 8-8-72, Cl. 73-194.00r.

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Turner, Charles D., to Kay Laboratories, Inc. Rupturable container. 3,674,134, 74-72, Cl. 206-47.00a.

Turner, Charles J., Jr., to Lockheed Aircraft Corporation. Beacon providing visual direction information. 3,706,968, 12-19-72, Cl. 340-25.000.

Turner, Charles L.; and Zerfahs, Arthur S., to Addressograph-Multigraph Corporation. High speed photoelectrostatic copying machine. 3,655,282, 4-11-72, Cl. 355-3.

Turner, Charles W.: *See—*
White, Richard M.; Lee, Robert E.; and Turner, Charles W., 3,673,474.

Turner, Charles W. Synthetic thyroprotein containing triiodothyronine prepared by addition of multiple charges of iodiene to a protein. 3,705,142, 12-5-72, Cl. 260-119.000.

Turner, David, to Turner, Dorothy R. and Brewer, Cecil G. Produce crate with ventilating apertured sections. 3,655,114, 4-11-72, Cl. 229-30.

Turner, Deane S. Vapor control system for an underground storage tank. 3,662,794, 5-16-72, Cl. 141-290.

Turner, Delber W., to Petrolite Corporation. High-voltage entrance bushing for an electric treater. 3,666,878, 5-30-72, Cl. 174-152.00r.

Turner, Delber W., to Petrolite Corporation. Electric treater with protected insulators. 3,707,458, 12-26-72, Cl. 204-308.000.

Turner, Dennis Robert: *See—*
Koontz, Donald Eldridge; Schoenberg, Leonard Norman; and Turner, Dennis Robert, 3,654,095.
Newby, Kenneth Russ; and Turner, Dennis Robert, 3,700,569.

Turner, Donald B.: *See—*
Murdoch, Kenneth E.; and Turner, Donald B., 3,696,948.

Turner, Donald B.; and Barnes, Albert H., to Moore Dry Kiln Company of Oregon. Lumber bin sorter with vertically-positionable and tiltable bin floors. 3,653,506, 4-4-72, Cl. 209-74.

Turner, Dorothy R.: *See—*
Turner, David, 3,655,114.

Turner, Edgar P., to North American Rockwell Corporation. Protection and control means for fly-shuttle looms. 3,702,145, 11-7-72, Cl. 139-336.000.

Turner, Edward W., to Phillips Petroleum Company. Control of wall thickness of irregularly shaped blow molded articles. 3,662,048, 5-9-72, Cl. 264-85.

Turner, Edward W., to Phillips Petroleum Company. Cutting and sealing plastic tubes. 3,699,201, 10-17-72, Cl. 264-98.000.

Turner, Edward Wayne: *See—*
Selsor, James Quinn; Turner, Edward Wayne; and Goldberg, Bruce Saul, 3,696,061.

Turner, Ernest, to Dresser Industries, Inc. Dock board. 3,665,537, 5-30-72, Cl. 14-71.000.

Turner, Frank A., to Publishers Paper Co. Paper roll shaft with expandable collar. 3,655,144, 4-11-72, Cl. 242-68.

Turner, Garland L., to Allied Chemical Corporation. Spinnerette for producing hollow filaments. 3,635,641, 1-18-72, Cl. 425-461.

Turner, Godfrey A. Apparatus for pelletizing powderous materials by vibrational forces. 3,650,651, 3-21-72, Cl. 425-197.

Turner, H. R., (Willenhall) Limited: *See—*
Turner, Harold Roy, 3,641,838.
Turner, Harold Roy, 3,663,056.

Turner, Harold Roy, to Turner, H. R., (Willenhall) Limited. Seats for vehicles. 3,641,838, 2-15-72, Cl. 74-530.

Turner, Harold Roy, to Turner, H. R., (Willenhall) Limited. Vehicle seat frames and mechanisms. 3,663,056, 5-16-72, Cl. 297-369.

Turner, Ian, to International Computers Limited. Fluid supported pad with means to produce contact between head and record medium. 3,676,874, 7-11-72, Cl. 340-174.10e.

Turner, James B.; and Wise, Harold L. Gas drilling soil sampling. 3,645,131, 2-29-72, Cl. 73-153.

Turner, James E. Hot tank for parts degreasing. 3,662,742, 5-16-72, Cl. 126-344.000.

Turner, James W.; and Spinks, Ray E., to United States of America, Navy. Reciprocably latched canopy release. 3,656,211, 4-18-72, Cl. 24-230.000.

Turner, John A., to Automatic Radio Manufacturing Inc. Electrical probe-position responsive apparatus and method. 3,699,439, 10-17-72, Cl. 324-71.004.

Turner, John Angus/William: *See—*
Geoghegan, Michael Joseph Augustine; Turner, John Angus/William; Freeman, Peter Frank Hilary; and Summers, Lindsay Anderson, 3,683,087.

Turner, John O., to Sun Oil Company. Hydrogen peroxide from alkylhydroperoxides. 3,653,832, 4-4-72, Cl. 23-207.5.

Turner, John O., to Sun Oil Company. Novel process for preparing a haloether. 3,697,603, 10-10-72, Cl. 260-614.00a.

Turner, John O., to Sun Oil Company. Synthesis of aliphatic and alicyclic ethers. 3,705,196, 12-5-72, Cl. 260-611.00r.

Turner, John W., Jr.: *See—*
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Turner, Justin L., to Educational Service Programs, Inc. Adjustable headset. 3,636,279, 1-18-72, Cl. 199-156.

Turner, Justin L., to Educational Service Programs, Inc. Antenna for use with an audio induction communication system. 3,673,334, 6-27-72, Cl. 179-82.000.

Turner, Leonard; Howman, Eric James; and Bradshaw, Christopher Patrick Cadman, to British Petroleum Company Limited, The. Disproportionation of olefines. 3,641,189, 2-8-72, Cl. 260-683.

Turner, Leonard; and Williams, Keith Vaughan, to Brockway Glass Company, Inc. Disproportionation of olefins. 3,642,931, 2-15-72, Cl. 260-683.

Turner, Lloyd S. Security closure for a screw type container. 3,690,495, 9-12-72, Cl. 215-9.000.

Turner, Lyman H., to Xerox Corporation. Apparatus for decurling a paper web. 3,649,447, 3-14-72, Cl. 162-271.

Turner, Lyman H.; and Manzek, Rhinehart A., to Xerox Corporation. Sheet propelling apparatus. 3,669,447, 6-13-72, Cl. 271-53.000.

Turner, Lyman H.; and Adamek, John A., to Xerox Corporation. Cover apparatus. 3,671,094, 6-20-71, Cl. 312-319.000.

Turner, Lyman H.; and Kukucka, William P., to Xerox Corporation. Tray apparatus. 3,682,328, 8-8-72, Cl. 214-6.00h.

Turner, Lyman H.; Kukucka, William P.; and Summers, James E., to Xerox Corporation. Stapling apparatus. 3,685,712, 8-22-72, Cl. 227-3.000.

Turner, Lyman H.; Kukucka, William P.; and Summers, James E., to Xerox Corporation. Staple forming and fastening apparatus. 3,690,537, 9-12-72, Cl. 227-88.000.

Turner, Lyman H., to Xerox Corporation. Automatic control of toner concentrations. 3,692,403, 9-19-72, Cl. 355-3.000.

Turner, Martin E.: *See—*
Naarup, Wayne D.; and Turner, Martin E., 3,681,948.

Turner, Paul; Marmion, Vincent James; Sneddon, John Mason; and Craig, David D. H., to Warner-Lambert Company. Method of reducing intraocular pressure with a basic thymol ether. 3,658,963, 4-25-72, Cl. 424-311.

Turner, Paul Anthony: *See—*
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Turner, Phillip H., to Whirlpool Corporation. Water system for an ice making apparatus. 3,643,454, 2-22-72, Cl. 62-66.

Turner, Phillip H.; and Lyman, John B., to Whirlpool Corporation. Nozzle construction for ice maker. 3,678,702, 7-25-72, Cl. 62-354.000.

Turner, Prescott K., to General Electric Company. Method of manufacturing double insulated plugs. 3,668,779, 6-13-72, Cl. 29-629.000.

Turner, Raymond, to Rayson Engineering Pty. Ltd. Plate storage system. 3,666,115, 5-30-72, Cl. 211-50.000.

Turner, Richard C.; and Stanton, Ronald J., to Huletts Sugar Corporation Limited. Attachment of elements to rotational members. 3,688,369, 9-5-72, Cl. 29-110.000.

Turner, Richard Ellis: *See—*
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Turner, Robert B., to Dow Chemical Company, The. Olefin polymers containing sugars. 3,639,312, 2-1-72, Cl. 260-17.4.

Turner, Thomas Adkins: *See—*
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Turner, Walter V., Jr.: *See—*
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Turner, Warren E.: *See—*
Dreibelbis, Richard C.; and Turner, Warren E., 3,642,176.

Turner, William A. Hearing augmentation device. 3,658,150, 4-25-72, Cl. 181-25.000.

Turner, William A. Turkey call. 3,670,452, 6-20-72, Cl. 46-178.000.

Turner, William Brian: *See—*
Aldridge, David Cecil; Broadbent, Douglas; Hemming, Harold George; Turner, William Brian; and Bent, Keith Joseph, 3,661,935.

Turner, William D. Electrical musical instrument with ensemble and chief effects and unequal stereophonic outputs. 3,647,928, 3-7-72, Cl. 84-1.24.

Turner, Wilson R.: *See—*
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Turner Wilson S.: *See—*
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Turnhout, Jan Van, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid Handel en Verkeer. Unilaterally metallized electret foil. 3,696,505, 10-10-72, Cl. 29-592.000.

Turnhout, Jan Van, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Method for the formation of a unilaterally metallized electret foil. 3,706,131, 12-19-72, Cl. 29-592.000.

Turnquist, Gunnard. Gardening tool. 3,643,744, 2-22-72, Cl. 172-372.

Turnrose, Paul H. Psychedelic device attachable to front of television tube. 3,657,474, 4-18-72, Cl. 178-7.86.

Turoczi, Alexander, Jr. Balanced tire and balancing method. 3,663,328, 5-16-72, Cl. 156-75.000.

Turok, Galina Iosifovna: *See—*
Evgrafov, Boris Ivanovich; Kupeev, Jury Alexandrovich; and Turok, Galina Iosifovna, 3,684,944.
Turowski, Else Paula Maria: *See—*
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Turowski, Johannes: *See—*
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Ruhl, Karl; Franck, Heinz-Gerhard; and Turowski, Johannes, 3,641,166.
Turpin, Alexander J.; and Yarnell, William T., to Buell Engineering Company, Inc. Method of and apparatus for preheating scrap metal. 3,645,516, 2-29-72, Cl. 263-40.
Turpin, Charles H.: *See—*
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Turpin, Charles Henry; and Ryan, John A., to Pillsbury Company, The. Apparatus for scoring fiber cans. 3,668,981, 6-13-72, Cl. 93-36.50r.
Turpin, Michel Louis: *See—*
Ducrot, Alain Jean Edmond; Poulain, Jacques Constant; Pavon, Miguel Sancho; and Turpin, Michel Louis, 3,694,333.
Turpin, Pierre: *See—*
Laucournet, Robert; and Turpin, Pierre, 3,679,315.
Turpin, Pierre, to Hoffmann-La Roche Inc. Pipette system. 3,645,142, 2-29-72, Cl. 73-425.6.
Turpin, Raymond C., Jr. Display board for monitoring a fleet of vehicle. 3,683,366, 8-8-72, Cl. 340-325.000.
Turriere, Jean Emile, to International Standard Electric Corporation. Thunderstorm observation satellite. 3,638,882, 2-1-72, Cl. 244-1.
Turshen, Richard S.: *See—*
Gardel, Robert; Gorsky, Egon; and Turshen, Richard S., 3,636,653.
Turteltaub, Max, to Thomson-CSF. Parasitic mode suppressor. 3,634,790, 1-11-72, Cl. 333-82.
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Campbell, David Neil; and Turton, Frank Arnold, 3,704,601.
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Turzillo, Lee A. Means for stabilizing structural layer overlying earth materials in situ. 3,685,303, 8-22-72, Cl. 61-63.000.
Turzillo, Lee A., to Marathon Oil Company. Method and means for producing pile or like structural columns in situ. 3,690,109, 9-12-72, Cl. 61-53.640.
Tusbota, Motoniko: *See—*
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Tuschhoff, John V.; and Hanson, Cleo E., to Staley, A. E., Manufacturing Company. Method for producing ungelatinized starch derivatives. 3,705,891, 12-12-72, Cl. 260-233.30r.
Tuschy, Eckhard; and Niggemann, Theodor, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Apparatus for cutting pieces of predeterminable length. 3,641,858, 2-15-72, Cl. 83-337.
Tuschy, Eckhard; and Niggemann, Theodor, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Device for transporting elongated workpieces. 3,648,553, 3-14-72, Cl. 83-112.
Tuskos, Michael E. Pleating device. 3,696,515, 10-10-72, Cl. 33-192.000.
Tuson, Ian V., to Harlequin Manufacturing Limited. Electrically powered vehicles. 3,635,301, 1-18-72, Cl. 180-19.
Tustin, Arnold; and Sell, Richard Geoffrey, to British Railways Board. Trolley wire overhead electric supply systems for electrically powered vehicles. 3,641,285, 2-8-72, Cl. 191-40.
Tustin, Arnold; and Sell, Richard Geoffrey, to British Railways Board. Overhead electric supply systems for vehicles. 3,644,688, 2-22-72, Cl. 191-40.
Tuszewski, Marian Stanislak. Disposable finger protecting cleansing mitt. 3,638,789, 2-1-72, Cl. 206-63.2.
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Tutelman, David Morris, to Bell Telephone Laboratories, Incorporated. Distributed logic memory cell for parallel cellular-logic processor. 3,670,308, 6-13-72, Cl. 340-172.500.
Tuthill, John B., to American Dish Service of Kansas City, Missouri, Inc. Method of adding ingredients to a dishwashing medium. 3,645,421, 2-29-72, Cl. 222-57.
Tutino, Dominick J. Hydraulic valve lifter tool. 3,681,838, 8-8-72, Cl. 29-213.000.
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Tuttle, Fordyce E.; deceased (by Tuttle, Eleanor Porter; executrix). Portrait uniform lighting device. 3,634,674, 1-11-72, Cl. 240-1.
Tuttle, Fordyce E.; deceased (by Tuttle, Eleanor Porter; executrix). Underwater reconnaissance system. 3,688,666, 9-5-72, Cl. 95-12.500.
Tuttle, Fordyce E.; deceased (by Tuttle, Eleanor Porter; executrix). Fiber optic display device. 3,701,990, 10-31-72, Cl. 346-1.000.
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Tuttle, James W.: *See—*
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Tuttle, Ralph L. Oil skimmer. 3,701,430, 10-31-72, Cl. 210-242.000.
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Tuttle, Robert N., to Shell Oil Company. Process for cementing well bores. 3,653,441, 4-4-72, Cl. 166-291.
Tutui, Mitukuni; and Watanabe, Hiroshi, to Hitachi, Ltd. Battery powered ignition circuit for internal combustion engines. 3,683,881, 8-15-72, Cl. 123-148.0dc.
Tuuha, Rolf Erik. Drum barker. 3,695,319, 10-3-72, Cl. 144-208.00b.
Tuura, Eugene F. Movable platform. 3,669,292, 6-13-72, Cl. 214-620.
Tuvert, Allan Johan Elmer. Means for mounting a fitting at a support. 3,686,709, 8-29-72, Cl. 16-159.000.
Tuwa-Plastik Dr. Herbert Warnecke Erzeugunt Von Kunststoffartikeln: *See—*
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Tuwiner, Sidney B., to RAI Research Corporation. Concentration of electrolyte from dilute washings by electrodialysis in a closed system. 3,674,669, 7-4-72, Cl. 204-180.00p.
Tuymer, Walter J.: *See—*
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Tvaermose Nielsen; Frey, Hans-Hasso; and Feit, Peter Werner, to Lovens Kemiske Fabrik Produktionsaktieselskab. Amides of benzoic acids with amine substituted piperidines. 3,634,410, 1-11-72, Cl. 260-293.64.
Tvarusko, Aladar, to ESB Incorporated. Active material, electrode and cell comprising improved battery grade divalent silver oxide. 3,650,832, 3-21-72, Cl. 136-6.
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Twardzik, Georg, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic vehicle tire. 3,664,404, 5-23-72, Cl. 152-361.
Tweed, Horace A., Jr., to Sylvania Electric Products, Inc. Adapter for converting an AM radio receiver into a citizens band channel 9 transceiver. 3,665,310, 5-23-72, Cl. 325-21.000.
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Twist, Douglas, to Pilkington Brothers Limited. Tongs for suspending glass sheets. 3,655,233, 4-11-72, Cl. 294-118.

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Twyford, Robert H., to Mechanical Enterprises Incorporated. Coding keyboard and electrical switch therefor. 3,707,611, 12-26-72, Cl. 200-211.000.

Ty, Henry; and Luerken, Joseph, to Texas Instruments, Incorporated. Process for improving thermo response characteristics of thermostat metal elements. 3,704,179, 11-28-72, Cl. 148-6.170.

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Tyler, Hugh J., to Robertshaw Controls Company. Hot wire relay type devices and methods of maintaining or producing such devices. 3,684,994, 8-15-72, Cl. 337-140.000.

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Tyson, David Z.; Hunter, Edward E.; and Best, Willie Herman, to Goodyear Tire & Rubber Company, The. Dryer or heater with shielding means. 3,643,342, 2-22-72, Cl. 34-48.

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Tyson, John Anthony, to Bell Telephone Laboratories, Incorporated. Superconducting quantum rate gyro device for detecting rotation. 3,657,927, 4-25-72, Cl. 73-505.
Tyson, Thomas L.; and Craze, Edward G., Jr., to Texaco Inc. Heat exchange structure for a hot air heater. 3,662,736, 5-16-72, Cl. 126-91.
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Tzentia, Leonidas S., to Dow Badische Company. Wet spinning non-circular polyacrylonitrile fibers by utilizing circular orifices and sequential coagulation. 3,706,828, 12-19-72, Cl. 264-182.000.
Uano, Shinkichi. Corporation cock fastening arrangement. 3,638,906, 2-1-72, Cl. 251-145.
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Uchida, Kozo; Nakaya, Naohisa; and Suzuki, Koji, to Iwatsu Electric Co., Ltd. Automatic synchronizing systems for sampling devices. 3,633,066, 1-4-72, Cl. 315-19.
Uchida, Kozo, to Iwasaki Tsushinki Kabushiki Kaisha; a/k/a Iwatsu Electric Co., Ltd. Integrating network using at least one D-C amplifier. 3,667,055, 5-30-72, Cl. 328-127.000.
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Uchida, Michio, to Ricoh Co., Ltd. On-off servomechanism controlled by a wheat stone bridge. 3,697,849, 10-10-72, Cl. 318-674.000.
Uchida, Mitsuo; Iketani, Tadanao; and Mitani, Naoyuki. Apparatus for controlling a mass flow rate of liquid in a chemical process. 3,692,048, 9-19-72, Cl. 137-403.000.
Uchida, Miyoji: *See—*
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Uchida, Naoya; Ohmachi, Yoshiro; Niizeki, Nobukazu; Miyazawa, Shintaro; and Iwasaki, Hiroshi, to Nippon Telegraph and Telephone Public Corporation. Di-lead molybdate ultrasonic light deflector. 3,671,103, 6-20-72, Cl. 350-149.000.
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Uchida, Teiji: *See—*
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Uchida, Teiji; Shogo, Washio; and Tatsumi, Ryuji, to Nippon Electric Company, Limited. Optical pumping device for solid state laser. 3,634,777, 1-11-72, Cl. 331-94.5.

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Uchida, Teiji, to Nippon Selfoc Company Limited. Multi-terminal optical cable utilizing a flexible graded optical fiber. 3,663,822, 5-16-72, Cl. 250-217.

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Uchida, Yasuo: *See—*
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Uchida, Yasuo; and Akimoto, Hideo, to Konishiroku Photo Industry Co., Ltd. Warning indicator apparatus for use in a camera having a flash discharge device contained therein. 3,651,372, 3-21-72, Cl. 315-134.

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Uchino, Masahiro: *See—*
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Uchiumi, Tatsuro; and Nakano, Goro, to Tokyo Shibaura Electric Co., Ltd. Automatic lamp filament-transferring equipment. 3,692,194, 9-19-72, Cl. 214-1.0bh.

Uchiyama, Hiromichi: *See—*
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Uchiyama, Takashi: *See—*
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Uchiyama, Takashi, to Canon Inc. Indicator for flash light photography. 3,643,564, 2-22-72, Cl. 95-10.

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Uebe, Rudolf; and Brinkmann, Ludwig, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Thermoplastic moulding compositions on the basis of saturated polyesters. 3,663,498, 5-16-72, Cl. 260-40.

Uebe, Rudolf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of high molecular weight polyesters for injection moulding purposes. 3,663,512, 5-16-72, Cl. 260-75.

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Uebel, Philipp; Heckner, Helmut; and Schulin, Gotthilf, to Wacker-Werke KG. Impacting apparatus for driving convertible to pulling. 3,651,873, 3-28-72, Cl. 173-29.

Uebelhart, James J.: *See—*
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Ueda, Atsumi, to Aisin Seiki Kabushiki Kaisha. Hydraulic intensifier. 3,632,230, 1-4-72, Cl. 417-225.

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Uhlig, Helmut; and Grampp, Ekkehard, to Rohm Gesellschaft mit beschrankter Haftung. Enzymatic treatment of soya meal. 3,640,723, 2-8-72, Cl. 99-9.

Uhlig, Konrad: *See—*
Diehr, Hans Joachim; Merten, Rudolf; Uhlig, Konrad; Piechota, Helmut; and Weber, Christian, 3,634,345.
Diehr, Hans Joachim; Merten, Rudolf; and Uhlig, Konrad, 3,644,228.
Schliebs, Reinhard; Uhlig, Konrad; Oertel, Gunter; and Diehr, Hans-Joachim, 3,707,587.

Uhlmann, Erich, to Allmanna Svenska Elektriska Aktiebolaget. High voltage electric network. 3,689,823, 9-5-72, Cl. 321-2.000.

Uhlmann, Josef, Maschinenfabrik: *See—*
Auer, Peter, 3,686,059.

Uhoch, John, Jr.: *See—*
Haughwitz, Rudiger D.; and Uhoch, John, Jr., 3,634,438.
Haugwitz, Rudiger D.; and Uhoch, John, Jr., 3,694,553.

Uhr, Hermann: *See—*
Cadus, Anton; Uhr, Hermann; and Weber, Reinhold, 3,661,837.

Uhrden, Inc.: *See—*
Cook, Kenneth L.; and Mc Cartney, Thomas R., 3,654,854.

Uhrich, Richard W.; and Held, Jimmy L., to United States of America, Navy. Linear linkage manipulator arm. 3,703,968, 11-28-72, Cl. 214-147.00t.

Uhrick, David A.: *See—*
Box, E. O., Jr.; and Uhrick, David A., 3,641,182.

Uhrig, Edward O., to United States of America, Air Force. Automatic confidence test for EOM repeater. 3,706,994, 12-19-72, Cl. 343-17.700.

Uhrig, Jerome W., to United States of America, Air Force. Helicopter UHF antenna system for satellite communications. 3,701,157, 10-24-72, Cl. 343-708.000.

Uhrig, Jerome W., to United States of America, Air Force. Space diversity antenna system for UHF satellite communications for helicopters. 3,702,479, 11-7-72, Cl. 343-705.000.

Uhrig, Wilhelm, to Plate, Dr., GmbH. Process and apparatus for applying adhesive points to a web or sheet in a desired pattern. 3,671,284, 6-20-72, Cl. 117-21.000.

Uhrig, Wilhelm, to Supla Etablissement. Method for drawing sliding clasps and fixing stop members onto engaged sliding-clasp fastener tapes. 3,698,064, 10-17-72, Cl. 29-408.000.

Uhrig, Wilhelm. Apparatus for manufacturing a slide fastener. 3,703,026, 11-21-72, Cl. 29-33.200.

Uhtenwoldt, Herbert R.: *See—*
Deranian, Diran; Hume, Norman S.; and Uhtenwoldt, Herbert R., 3,634,980.
Robillard, Edward G.; Lizotte, Robert H.; and Uhtenwoldt, Herbert R., 3,634,979.

Uhtenwoldt, Herbert R.; Hohler, Frederick A.; and Robillard, Edward G., to Heald Machine Company, The. Grinding machine. 3,634,978, 1-18-72, Cl. 51-165.92.

Uhtenwoldt, Herbert R.; Grotewold, William H.; and Humes, Norman S., to Heald Machine Company, The. Grinding machine. 3,643,382, 2-22-72, Cl. 51-103.

Uhtenwoldt, Herbert R.; Grotewold, William H.; and Straub, Bruno E., to Heald Machine Company, The. Grinding machine. 3,650,076, 3-21-72, Cl. 51-165.89.

Uhtenwoldt, Herbert R.; Grotewold, William H.; and Wlodyka, Edmund E., to Heald Machine Company, The. Internal grinding machine. 3,657,843, 4-25-72, Cl. 51-103.

Uhtenwoldt, Herbert R., to Heald Machine Company, The. Toolhead. 3,664,718, 5-23-72, Cl. 308-189.1.

Uhtenwoldt, Herbert R.; Hohler, Frederick A.; and Wlodyka, Edmund E., to Cincinnati Milacron-Heald Corporation. Grinding machine. 3,688,444, 9-5-72, Cl. 51-5.000.

Uhtenwoldt, Herbert R.; and Lynch, James M., to Heald Machine Company, The. Grinding machine. 3,688,447, 9-5-72, Cl. 51-96.000.

Uhtenwoldt, Herbert R., to Heald Machine Company, The. Grinding machine. 3,691,699, 9-19-72, Cl. 51-165.920.

Uhtenwoldt, Herbert R., to Cincinnati Milacron-Heald Corporation. Grinding machine. 3,703,054, 11-21-72, Cl. 51-165.910.

Ui, Masamitsu: *See—*
Kurauchi, Noritaka; Fujimoto, Tokio; Yoshida, Kenichi; Ui, Masamitsu; Nagata, Zenji; and Kouno, Hirokazu, 3,636,436.

UID Electronics Corporation: *See—*
Brevick, Arnold A., 3,674,953.
Wright, Thomas H., Jr., 3,674,961.

Uitenbroek, Gerard, to Oldham International Limited. Apparatus for indicating the density of a fluid. 3,661,652, 5-9-72, Cl. 136-182.

Uitti, Kenneth D.; and Broughton, Donald B., to Universal Oil Products Company. Liquid-liquid contacting tray system. 3,632,315, 1-4-72, Cl. 23-270.5.

Uitti, Kenneth D.; and Carson, Don B., to Universal Oil Products Company. Vapor-liquid contacting device. 3,700,216, 10-24-72, Cl. 261-114.00r.

Uitto, Gary E.: *See—*
Benke, Frank W.; and Uitto, Gary E., 3,633,272.

Uitz, Mark O.: *See—*
Skinner, James R.; Uitz, Mark O.; and Hait, Paul W., 3,706,439.

Uitz, Mark O., to F. J. L. Corporation. Hanger rod construction and assembly. 3,637,084, 1-25-72, Cl. 211-105.1.

Ujihara, Motohiro; and Fujii, Itsuo, to Fuji Photo Film Co., Ltd. Process for the flocculation of photographic gelatino silver halide emulsions. 3,707,378, 12-26-72, Cl. 96-114.800.

Ujiie, Akira, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of constructing substantially circular cross-section vessel by welding. 3,665,143, 5-23-72, Cl. 219-76.

Ujile, Akira, to Mitsubishi Jukogyo Kabushiki Kaisha. Method and apparatus for manufacturing spherical metallic vessels or hemispherical vessel heads. 3,707,613, 12-26-72, Cl. 219-76.000.

Ujita, Katsu: *See—*
Nagai, Nobuo; Tada, Shoji; and Ujita, Katsu, 3,649,875.

Ujue, Akira. Method and apparatus for quenching a tubular shaped structure. 3,695,598, 10-3-72, Cl. 266-4.00a.

Ukai, Jun; and Hiramatu, Masaki, to Mitsubishi Denki Kabushiki Kaisha. Arc welding apparatus. 3,637,973, 1-25-72, Cl. 219-131.

Ukai, Jun; and Sugiyama, Hisao, to Mitsubishi Denki Kabushiki Kaisha. Wire reel for welding. 3,652,028, 3-28-72, Cl. 242-129.

Ukai, Takeshi, to Kabushiki Kaisha Ricoh. Apparatus for electrostatic charging of paper in electrophotographic reproduction. 3,699,388, 10-17-72, Cl. 317-4.000.

Ukebe, Teruo: *See—*
Saito, Tatsuo; Akahide, Kozo; and Ukebe, Teruo, 3,704,358.

Ukrainsky Nauchno-Issledovatelsky Konstruktorsko-Tekhnologichesky Institut Sinteticheskikh Sverkhtverdykh Materialov i Instrumenta GosPLANA: *See—*
Bakul, Valentin Nikolaevich; Prikhna, Alexei Iosifovich Alexei; Shulzhenko, Alexandr Alexandrovich; and Gerasimovich, Alexei Vladimirovich, 3,695,797.

Ulanen, Yalmar Semenovich: *See—*
Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.

Ulanovsky, Jack M., to Parker-Hannifin Corporation. Inerting system for fuel tanks and the like. 3,693,915, 9-26-72, Cl. 244-135.00r.

Ulansey, Judson T. Fabric clip. 3,691,596, 9-19-72, Cl. 24-84.00r.

Ulbing, Cynthia Geer: *See—*
Hiller, Gary L.; Ulbing, Cynthia Geer; and Starr, John E., 3,695,888.
Spence, John; Gilman, Paul Brewster, Jr.; and Ulbing, Cynthia Geer, 3,687,676.
Spence, John; Gilman, Paul Brewster, Jr.; and Ulbing, Cynthia Geer, 3,690,891.

Ulbing, Cynthia Geer, to Eastman Kodak Company. Photosensitive/photothermic composition and process. 3,692,526, 9-19-72, Cl. 96-108.000.

Ulbing, Otmar M., to Ingersoll-Rand Company. Air balancer safety system. 3,635,442, 1-18-72, Cl. 254-168.

Ulbrich, Carl H.: *See—*
Acker, John N.; and Ulbrich, Carl H., 3,689,050.

Ulbricht, Dietmar: *See—*
Preinfalk, Franz; Ulbricht, Dietmar; and Rohrsen, Friedrich, 3,656,588.

Ulderup, Jurgen: *See—*
Lange, Gunter; and Ulderup, Jurgen, 3,651,663.

Ule, Louis A., to North American Rockwell Corporation. System for detecting and utilizing the maximum available power from solar cells. 3,696,286, 10-3-72, Cl. 323-15.000.

Ulfhielm, Christer. Producing a curved surface with numerically controlled machine tool. 3,641,872, 2-15-72, Cl. 90-13.

Ulich, Michael D., to Westinghouse Electric Corporation. Hub and shaft securement means. 3,669,477, 6-13-72, Cl. 287-52.070.

Ulicki, Edward M., to Holobeam, Inc. Variable frequency phase matching distance measuring and positioning device. 3,649,123, 3-14-72, Cl. 356-5.

Ulics, George, to Ford Motor Company. Bellows flexible joint. 3,678,707, 7-25-72, Cl. 64-11.00b.

Ulics, George, to Ford Motor Company. Bellows flexible joint. 3,707,082, 12-26-72, Cl. 64-11.00b.

Uliczky, Sandor, to Nikex Nehezipari Kulkereskedelmi Vallalat. Closure device for streaming in particular high pressure liquids. 3,680,832, 8-1-72, Cl. 251-282.000.

Ulimann, Gunter: *See—*
Vogel, Erich; Ulimann, Gunter; and Pfluger, Gerhard, 3,646,820.

Uline, Lawrence James, to Union Carbide Corporation. Machine for filling preformed pouches. 3,675,389, 7-11-72, Cl. 53-183.000.

Ulion, Nicholas E.: *See—*
Blecherman, Sol S.; Ulion, Nicholas E.; and Packer, Louis L., 3,668,386.

Uljanik brodogradiliste i tvornica Dizel motora Pula u sastavu zdruzenog produzeca "Jadranbrod": *See—*
Klasic, Mladen, 3,680,513.

Ullathorne, John F.: *See—*
Candidus, Edward S., Jr.; Snow, Thomas W.; and Ullathorne, John F., 3,652,165.

Ullberg, Carl Woodrow, to Aktiebolaget Svenska Kullagerfabriken. Sealing device in bearing housings. 3,656,824, 4-18-72, Cl. 308-187.1.

Ullberg, John Raymond, to All-Fill, Inc. Multiple orifice filling machine. 3,658,212, 4-25-72, Cl. 222-240.

Ullberg, Sven Gustav Folke, to Incentive Research & Development AB. Microtome with means for collecting sections of the specimen on a tape. 3,690,988, 9-12-72, Cl. 156-353.000.

Ulli, Hans: *See—*
Mages, Karl; and Ulli, Hans, 3,683,149.

Ullman, Edwin F.: *See—*
Becher, Jan; and Ullman, Edwin F., 3,706,537.
Boocock, David G. B.; and Ullman, Edwin F., 3,697,538.
Goldstein, Avram; Leute, Richard K.; and Ullman, Edwin F., 3,690,834.
Leute, Richard K.; and Ullman, Edwin F., 3,697,535.
McConnell, Harden M.; and Ullman, Edwin F., 3,668,214.
McConnell, Harden M.; and Ullman, Edwin F., 3,673,207.

Ullman, Edwin F., to Synvar Associates. Method for chemically initiating photochemical reactions. 3,689,391, 9-5-72, Cl. 204-159.000.

Ullman, Edwin Fisher: *See—*
Huffman, Kenneth Robert; Ullman, Edwin Fisher; and Loy, Myrna, 3,654,283.

Ullman, John E.; and Rollings, Ernest J., Jr., to United States Steel Corporation. Spool valve with internal passage. 3,696,838, 10-10-72, Cl. 137-625.380.

Ullman, John G.: *See—*
Baird, Eugene M.; and Ullman, John G., 3,704,971.

Ullman, Terry S.; and Lecznar, Chester J., to Alloy Metals, Incorporated. Method of producing metal powders. 3,639,548, 2-1-72, Cl. 264-12.

Ullman, William L.; Baxter James C.; Pearson, Arthur J.; Davis, Robert E.; and Hullhorst, William B., to Owens-Corning Fiberglas Corporation. Tubular fibrous bodies and apparatus and methods for their production. 3,642,034, 2-15-72, Cl. 138-144.

Ullmann, Christoph: *See—*
Canamero, Ernest V.; and Ullmann, Christoph, 3,673,760.

Ullmann, Gunther: *See—*
Vogel, Erich; and Ullmann, Gunther, 3,664,201.

Ullmann, Werner: *See—*
Binek, Bedrich; and Ullmann, Werner, 3,644,743.

Ullmann, Werner; Tadini, Costantino; and Salim, Ehsan, to AG fur Industrielle Elektronik AGIE Losone bei Locarno. Arrangement of at least two non-storage pulse generators for electro-erosion machining. 3,655,937, 4-11-72, Cl. 219-69.

Ullmann, Werner; Derighetti, Renato; and Marazzi, Valentino, to AG fur Industrielle Elektronik AGIE Losone bei Locarno. Method and apparatus for the uninterrupted switching of at least one alternating-current consumer of a voltage supply source or current upply source to a different voltage supply source or current supply source. 3,662,182, 5-9-72, Cl. 307-64.000.

Ullmer, Richard J.: *See—*
Bean, Donald E.; Engh, James T.; Hammer, James R.; Schettl, Myron D.; Tashjian, Harry J.; Ullmer, Richard J.; and Kerr, John W., 3,642,197.

Ullner, Klaus, to Miag Muhlenbau und Industrie GmbH. Grinder for wood pieces, particularly sticks. 3,688,997, 9-5-72, Cl. 241-282.000.

Ullrich, Frederick George: *See—*
Dempsey, Gordon, 3,695,667.

Ullrich, Kurt: *See—*
Meinke, Hans H.; Ullrich, Kurt; and Wesch, Ludwig, 3,680,107.

Ullrich, Walter; Lohse, Karl-Heinz; Leuteritz, Jochen; Zeitzschel, Gunter; and Fasol, Robert, to Licentia Patent-Verwaltungs-G.m.b.H. Pressure suppression containment for a liquid-cooled nuclear reactor. 3,668,069, 6-6-72, Cl. 176-38.

Ullrich, Zeala Edna: *See—*
Dempsey, Gordon, 3,695,667.

Ulm, Ralph E.; Phillips, Claude F.; Sullivan, Michael J.; Collins, Larry C.; and Parrent, William Russell, to Airtex Products; division of United Industrial Syndicate. Submersible fuel pump. 3,666,381, 5-30-72, Cl. 417-423.000.

Ulmann, Charles, to Etablissements Georges Klein & Cie. Gate. 3,633,311, 1-11-72, Cl. 49-35.

Ulmer, Arnold G.: *See—*
Berge, Ralph I.; Young, James L.; and Ulmer, Arnold G., 3,684,373.

Ulmer, Gene C.: *See—*
Leonard, Regis J.; and Ulmer, Gene C., 3,664,853.

Ulmer, Harry E.: *See—*
Mason, Paul J.; Moore, William R.; and Ulmer, Harry E., 3,689,487.
Wells, Rodney L.; Ulmer, Harry E.; and Mason, Paul J., 3,697,249.

Ulmer, William W., to Anaconda Wire and Cable Company. Fluid powder coating composition. 3,647,726, 3-7-72, Cl. 260-18.

Ulmer, Wolfgang; and Rausch, Hermann, to Siemens Aktiengesellschaft. Transistorized broadband amplifiers with gain control. 3,634,775, 1-11-72, Cl. 330-29.

Uloth, Robert H.: *See—*
Larsen, Aubrey A.; and Uloth, Robert H., 3,660,487.

Ulpe, Alexander: *See—*
Sander, Otto; and Ulpe, Alexander, 3,668,875.

Ulrich, Albert C.: *See—*
Prahl, Walter H.; Eggert, Jay P.; Lederman, Sol J.; Scremin, Eric H.; and Ulrich, Albert C., 3,644,542.

Ulrich, Donald R., to United States of America, National Aeronautics and Space Administration. Screened circuit capacitors. 3,649,353, 3-14-72, Cl. 117-212.

Ulrich Foundation, Inc.: *See—*
Ulrich, Raymond M., 3,633,292.
Ulrich, Raymond M.; and Ulrich, Solomon D., 3,685,591.

Ulrich, Henri: *See—*

Nashu, Abdul-Munim; Ulrich, Henri; and Sayigh, Adnan A. R., 3,652,738.
Rao, Durvasula V.; Sayigh, Adnan A. R.; and Ulrich, Henri, 3,644,413.
Rao, Durvasula V.; and Ulrich, Henri, 3,652,675.
Rao, Durvasula V.; Sayigh, Adnan A. R.; and Ulrich, Henri, 3,676,436.
Rao, Durvasula V.; Sayigh, Adnan A. R.; and Ulrich, Henri, 3,682,954.
Recchia, Frank P.; and Ulrich, Henri, 3,676,497.
Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,644,289.
Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,652,504.
Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,652,505.
Sayigh, Adnan A. R.; Tucker, Benjamin W.; and Ulrich, Henri, 3,652,599.
Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,657,199.
Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,699,080.
Sayigh, Adnan A. R.; and Ulrich, Henri, 3,701,788.

Ulrich, Henri; and Tucker, Benjamin W., to Upjohn Company, The. Aryl-N-substituted N-(1-chloro-1-alkanyl) carbamates. 3,637,810, 1-25-72, Cl. 260-479.

Ulrich, Henri, to Upjohn Company, The. Di[(isocyanatobenzyl)-phenyl]carbodiimides and preparation of organic carbodiimides. 3,644,456, 2-22-72, Cl. 260-453.

Ulrich, Klaus-Herbert; Doering, Dieter; and Borowski, Kurt, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Method for determining the carbon concentration in a metal melt. 3,661,725, 5-9-72, Cl. 204-1.

Ulrich, Paul: *See—*
Hoelzle, Gerd; and Ulrich, Paul, 3,632,294.

Ulrich, Paul, to Ciba Limited. Triazinyl-anthraquinone dyestuffs. 3,642,795, 2-15-72, Cl. 260-249.

Ulrich, Paul; and Frey, Christoph, to Ciba-Geigy AG. Azo dyestuffs containing triazines and vattable polycyclic quinones. 3,655,638, 4-11-72, Cl. 260-153.

Ulrich, Paul, to Ciba-Geigy AG. Anthraquinonyl triazine dyes. 3,684,808, 8-15-72, Cl. 260-249.000.

Ulrich, Raymond M., to Ulrich Foundation, Inc. Self-propelled loader. 3,633,292, 1-11-72, Cl. 37-112.

Ulrich, Raymond M.; and Ulrich, Solomon D., to Ulrich Foundation, Inc. Slit trenching and cable laying machine with orbital action plow. 3,685,591, 8-22-72, Cl. 172-40.000.

Ulrich, Schwieter: *See—*
Gloor, Urs; Ruegg, Rudolf; and Ulrich, Schwieter, 3,670,031.

Ulrich, Solomon D.: *See—*
Ulrich, Raymond M.; and Ulrich, Solomon D., 3,685,591.

Ulrich Steinemann AG Maschinenfabrik: *See—*
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Ulrich, Werner: *See—*
Downing, Randall W.; Nowak, John S.; Taylor, Frank F.; and Ulrich, Werner, 3,651,480.

Ulrich, Werner; and Vigilante, Frank S., to Bell Telephone Laboratories, Incorporated. Cooperative processor control of communication switching office. 3,643,032, 2-15-72, Cl. 179-18.

Ulrichsen, Borre Bengt, to A/S Kongsberg Vapenfabrikk. Apparatus for marking one or more lines on a frame section or the like. 3,644,999, 2-29-72, Cl. 33-23.

Ulseth, John W., to Minnesota Mining and Manufacturing Company. Cored roll arbor. 3,703,996, 11-28-72, Cl. 242-68.000.

Ultee, Casper J., to United Aircraft Corporation. Pulsed hydrogen fluoride laser. 3,706,942, 12-19-72, Cl. 331-94.50g.

Ultra Electronics Limited: *See—*
Kendell, Roy, 3,691,405.

Ultra Products, Inc.: *See—*
Brown, William M., 3,684,058.

Ultra Tech Corporation: *See—*
Koches, Andrew L.; and Christiansen, Francois T. W., 3,648,569.

Ultra-Violet Products, Inc.: *See—*
Boland, Steven H., 3,686,529.

Ultrasonic Systems, Inc.: *See—*
Balamuth, Lewis, 3,636,943.
Balamuth, Lewis, 3,636,947.
Balamuth, Lewis, 3,666,975.
Balamuth, Lewis, 3,702,948.
Kuris, Arthur, 3,642,010.
Winston, Ronald H.; Schultz, Stephen; and Garvey, Thomas Q., III, 3,657,056.

Ultrasonic Systems, Inc., mesne: *See—*
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Ultronic Systems Corporations: *See—*
Roberts, Richardson S., Jr., 3,643,252.
Sieracki, Frank W., 3,689,872.
Twyford, Robert H., 3,702,987.

ULV Manufacturing Corporation: *See—*
Stains, George S., 3,648,401.

Ulvesand, Sture; and Bonthelius, Bo Bengt Urban. Hydrofoil system for water craft. 3,688,723, 9-5-72, Cl. 114-66.50h.

Ulyanitsky, Evgeny Mefodievich; and Podgorny, Eduard Vasilievich, to Novocherkassy Ordena Trudovogo Krasnogo Znameni Politekhnichesky Institut imeni Sergo Ordzhonikidze. Method of and apparatus for blocking phase-comparison protection. 3,679,937, 7-25-72, C. 317-27.00r.

Umahashi, Minoru, to Kabushiki Kaisha Ricoh. Automatic original form feeding device for the use of a copying machine. 3,659,837, 5-2-72, Cl. 271-9.

Umahashi, Minoru, to Kabushiki Kaisha Ricoh. Memory and counting device. 3,686,483, 8-22-72, Cl. 235-92.00j.

Umahashi, Minoru; Yamakawa, Hitoshi; and Suzuki, Motoyuki, to Kabushiki Kaisha Ricoh. Heating device for sheet-like object. 3,690,015, 9-12-72, Cl. 34-95.000.

Umbach, Hans: *See—*
Gawlick, Heinz; Marondel, Gunther; and Umbach, Hans, 3,641,935.

Umbach, Hans; and Jena, Hans, to Dynamit Nobel Aktiengesellschaft. Apparatus for maintaining the internal air pressure during the production of sized plastic pipe. 3,669,580, 6-13-72, Cl. 18-14.

Umbach, Wilfried; Mehren, Rainer; and Stein, Werner, to Henkel & Cie G.m.b.H. Bis-(hydroxyalkyl)-sulfides and preparation thereof. 3,637,864, 1-25-72, Cl. 260-609.

Umbach, Wilfried; and Stein, Werner, to Henkel & Cie G.m.b.H. Process for the alkoxylation of compounds containing alcoholic hydroxyl groups. 3,651,152, 3-21-72, Cl. 260-611.

Umbach, Wilfried; Mehren, Rainer; and Stein, Werner, to Henkel & Cie. GmbH. Polyalkyleneglycol ethers of hydroxyalkykmercaptans. 3,661,851, 5-9-72, Cl. 260-609.

Umbach, Wilfried; Mehren, Rainer; Stein, Werner; and Gott, Ernst, to Henkel & Cie G.m.b.H. Polyalkyleneglycol ethers of bis-(hydroxyalkyl)-sulfides. 3,662,003, 5-9-72, Cl. 260-609.

Umbach, Wilfried; Mehren, Rainer; and Stein, Werner, to Henkel & Cie G.m.b.H. Process for producing hydroxyalkyl mercaptans. 3,662,004, 5-9-72, Cl. 260-609.

Umbaugh, Charles Wayne, to General Electric Company. Electromagnetic force system for integrated circuit fabrication. 3,697,837, 10-10-72, Cl. 318-119.000.

UMC Electronics Company: *See—*
Weaver, Preston R., 3,643,513.

UMC Electronics Company: *See—*
Lince, William G., 3,656,113.
Weaver, Preston R., 3,698,249.

U.M.C. Industries, Inc.: *See—*
Erickson, Gustav F., 3,701,523.
Fantz, Paul A., 3,682,005.
Hendrickson, William W.; and Davis, Patrick J., 3,691,431.
Pryor, Harry H.; Short, William H.; and Koeneker, William V., 3,666,558.
Raymer, Doyle, 3,638,448.
Woltjen, Duane W., 3,636,783.

Umeda, Junichi, to Hitachi, Ltd. Light emitting diode with built-in drift field. 3,634,872, 1-11-72, Cl. 317-234.

Umeda, Junichi, to Hitachi, Ltd. Light-emitting diode with subnanosecond response time. 3,636,416, 1-18-72, Cl. 317-234.

Umeda, Kaoru, to Minolta Camera Kabushiki Kaisha. Motor-driven device for film winding or rewinding. 3,659,805, 5-2-72, Cl. 242-201.000.

Umeda, Kaoru; Ishii, Kenjiro; and Endo, Hiroshi, to Minolta Camera Kabushiki Kaisha. Device for intermittently transporting roll film. 3,690,532, 9-12-72, Cl. 226-149.000.

Umeda, Noriko: *See—*
Coker, Cecil Harold; and Umeda, Noriko, 3,704,345.

Umeda, Saburo; Kizuka, Tokio; Iwai, Kiyoshi; Tsunoda, Susumu; and Hayashi, Hideaki, to Nippon Columbia Kabushikikaisha. Take-up reel. 3,648,945, 3-14-72, Cl. 242-74.2.

Umeda, Shinobu; Miyagawa, Yoshiaki; Tanaka, Yutaka; Tanaka, Yukio; and Nakamura, Ryoji, to Toyo Boseki Kabushiki Kaisha. Apparatus for feeding warps or filling threads to knitting machine. 3,703,818, 11-28-72, Cl. 66-84.000.

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Umemura, Yukio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Structure for adjusting a camera and checking a battery thereof. 3,648,581, 3-14-72, Cl. 95-11.
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Umezawa, Hamao; Maeda, Kenji; Okami, Yoshiro; and Takeuchi, Tomio. Bleomycin and processes for the preparation thereof. 3,681,491, 8-1-72, Cl. 424-115.000.
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Johnson, Glenn E., 3,640,846.
Kalousek, George L.; and Enger, Phillip F., 3,693,411.
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Lacey, Robert E.; and Mintz, Milton S., 3,676,335.
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Richman, Russell B., 3,633,099.
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Scheiner, Bernard J.; Lindstrom, Roald E.; and Henrie, Thomas A., 3,639,222.
Scheiner, Bernard J.; Lindstrom, Ronald E.; and Henrie, Thomas A., 3,639,925.
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Schwaneke, Alfred E.; Falke, Wilbert L.; and Crosser, Orrin K., 3,675,310.
Seitz, Charles A.; and Bodine, Winston M., 3,683,589.
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National Aeronautics & Space Administration; Acting Administrator; with respect to an invention of:
Gross, Chris; and Mattauch, Robert J. Infrared detectors. 3,700,897, 10-24-72, Cl. 250-83.00r.
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Rubin, Bernard; and Childress, James D., 3,679,360.
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Cantor, Clarence; and Lowen, Irving B., 3,637,312.
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Chappelle, Emmett W.; and Picciolo, Grace L., 3,660,240.
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Gavira, Horacio Eduardo. Fail-safe multiple transformer circuit configuration. 3,663,828, 5-16-72, Cl. 307-83.000.

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Laue, Eric G. Irradiance measuring device. 3,700,503, 10-24-72, Cl. 136-224.000.
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McDougal, Allan R.; and Moore, Richard L. Rotary actuator. 3,706,230, 12-19-72, Cl. 74-2.000.
McRonald, Angus D. Thin-film gauge. 3,648,516, 3-14-72, Cl. 73-190.
McWilliams, Ian G. Two-color horizon sensor. 3,657,549, 4-18-72, Cl. 250-209.
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Mortensen, Leland O. Impact monitoring apparatus. 3,656,352, 4-18-72, Cl. 73-492.
Moser, Billy G.; and Landel, Robert F. Method for controlling vapor content of a gas. 3,675,712, 7-11-72, Cl. 165-3.000.
Oliver, Robert E. Multiple reflection conical microwave antenna. 3,705,406, 12-5-72, Cl. 343-782.000.
Oliver, Robert L.; and Zimmerman, Edward F. Apparatus for applying cover slides. 3,654,036, 4-4-72, Cl. 156-510.
Perkins, Gerald S. Ball-screw linear actuator. 3,660,704, 5-2-72, Cl. 310-80.
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Roney, Burton W. Evacuation valve. 3,680,830, 8-1-72, Cl. 251-86.000.
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Sauer, Thomas H.; Landel, Robert F.; and Fedors, Robert F. Parallel-plate viscometer with double-diaphragm suspension. 3,706,221, 12-19-72, Cl. 73-57.000.
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Scholl, James A. Method of forming shapes from planar sheets of thermosetting materials. 3,658,974, 4-25-72, Cl. 264-92.
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Simmonds, Peter G. Electrolytic gas operated actuator. 3,702,532, 11-14-72, Cl. 60-23.000.
Starkey, Donald J.; and Curry, Kenneth C. Torsional disconnect unit. 3,632,140, 1-4-72, Cl. 285-18.
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Vaccaro, Angelo, to Columbia Controls Research Corporation. Method and apparatus for standardizing densitometers. 3,669,543, 6-13-72, Cl. 356-42.000.
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Vagenius, Harold N.; deceased (by Vagenius, Helen M.; administrator). Oral deodorant. 3,655,868, 4-11-72, Cl. 424-54.
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Vagin, Alexei Alexeevich; Yablonsky, Stanislav Valerievich; Voloshin, Petr Stepanovich; Sharov, Nikolai Grigorievich; Shiborin, Viktor Ivanovich; Novakovsky, Vladimir Efimovich; Kolpakov, Grigory Vasilievich; Ivanov, Mark Efremovich; Lindin, Viktor Mikhailvich; and Lipsky, Daniil Yakovlevich, to Dzerzhinsky Filial Nauchno-Issledovatelskogo i Konstruktorskogo Instituta Khimicheskogo Mashinostroenia. Apparatus for granulating melts. 3,700,364, 10-24-72, Cl. 18-2.500.
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Vaiden, I. Clifford, to Barber-Colman Company. Thermocouple protection tube for use in molten metal. 3,680,382, 8-1-72, Cl. 73-343.00r.
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Vail, Evelyn W.; and Popik, John, to Alert, Inc. Proximity warning transmitter for emergency vehicles. 3,660,811, 5-2-72, Cl. 340-33.
Vail, Thomas W.; and Ryan, Allen L., to Warwick Electronics, Inc. Cassette changer. 3,677,555, 7-18-72, Cl. 274-4.00f.
Vaill, John L., to Torrington Company, The. Method and apparatus for forming cylindrical shapes. 3,648,500, 3-14-72, Cl. 72-71.
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Vajda, Geza L. Ionic corrosion and scale removal system for plumbing. 3,637,482, 1-25-72, Cl. 204-228.
Vajna, Eugenio: *See—*
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Valdes, Pelayo F. Integrated modular refrigeration system. 3,696,631, 10-10-72, Cl. 62-282.000.
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Valdo, Alex R.; and Janes, Jerry M., to Ethyl Corporation. Method of strain-hardening foamed metal. 3,704,193, 11-28-72, Cl. 156-196.000.
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Valentine, John J. Method of making a non-metallic cast chill. 3,644,608, 2-22-72, Cl. 264-71.
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Vallee, Felix Alexandre Jules. Apparatus for the sterilization of food products. 3,641,917, 2-15-72, Cl. 99-251.
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Valtonen, Rainer Ilkka Tapio, to Oy Nokia AB. Connecting plug for a current supply rail arrangement intended particularly for lighting purposes and small-sized electrical motors. 3,646,501, 2-29-72, Cl. 339-75.
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Van Dam, Max; and Yung, Diana S. Y., to Olivetti, Ing., C., & C., S.p.A. Process for the polymerization of N-vinylcarbazole in the presence of 2,4,5,7-tetranitro-9-fluorenone. 3,661,879, 5-9-72, Cl. 260-88.3.

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Van de Bilt, Pieter Arnoldus, to N.V. Metaverpa. Wire or band strapping machine. 3,667,378, 6-6-72, Cl. 100-26.000.

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van de Kerkhof, Lodevicus Lambertus Johannes, to AMP Incorporated, mesne. Round socket applicator. 3,673,847, 7-4-72, Cl. 72-405.000.

Van de Loock, Guido; and Van Overbeke, Roeland, to S.A. Bekaert-Cockerill. Construction of concrete road with expansion joints. 3,702,093, 11-7-72, Cl. 94-8.000.

Van De Meerendonk, Gerardus C., to Nedschroef Octrooi Maatschappij N.V. Machine for upsetting bolts and similar article. 3,688,322, 9-5-72, Cl. 10-12.00r.

van de Pol, Eugene J. M., to N.V. Ontwerp-en Exploitatiebureau 'Shunt'. Tipping lock for a garbage chute. 3,658,242, 4-25-72, Cl. 232-44.

Van De Stadt, E. G., Schweepwert N.V.: *See—*
Van De Stadt, Ericus Gerhardus, 3,690,284.

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Van De Steen, Louwrens Marinus: *See—*
Huyben, Bernardus Johannes Maria; Van Barneveld, Evert Jan; and Van De Steen, Louwrens Marinus, 3,656,010.

Van De Velde, Valere: *See—*
Decker, Wilton K.; and Van De Velde, Valere F. (said Decker assor. to said), 3,697,738.

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Decker, Wilton K.; and Van De Velde, Valere F., 3,697,738.

Van de Vusse, Jan G.: *See—*
Groothuis, Hendrik; and Van de Vusse, Jan G., 3,643,453.

Van de Water, Francis M. Vehicle top boat loader and carrier. 3,693,817, 9-26-72, Cl. 214-450.000.

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Hovagimyan, Norman; and Van Delft, Robert Neale, 3,639,908.

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Bennett, Frank W.; and Van Delinder, Loren S., 3,677,803.

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Van den Bosch, Mathijs. Electrical switch having adjustable conductive-liquid level. 3,683,136, 8-8-72, Cl. 200-61.470.

van den Bovenkamp, Gustaaf J.: *See—*
Bhattacharya, Bhairab Chandra; and van den Bovenkamp, Gustaaf J., 3,692,897.

Van Den Bovenkamp, Gustaaf J., to Bio-Controls, Inc., mesne. Method for controlling sex of mammalian offspring. 3,687,806, 8-29-72, Cl. 195-1.800.
Van Den Bulcke, Emile Oscar, to Corkerill-Ougree-Providence et Esperance. Apparatus for cooling wire rod. 3,704,874, 12-5-72, Cl. 266-3.00r.
Van Den Bussche, Willem: *See*—
Sluys, Robert Nestor Joseph; Wessels, Johannes Hendrik; and Van Den Bussche, Willem, 3,700,798.
Van Den Elzen, Norbert L.: *See*—
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Van Den Enden, Adrianus Wilhelmus Maria: *See*—
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Greefkes, Johannes Anton; de Koe, Oscar Bernardus Philomenus Rikkert; and Van den Enden, Adrianus Wilhelmus Maria, 3,707,604.
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Dahn, Carl James; and Van Den Heuvel, Anthony P., 3,669,022.
van den Heuvel, Anthony P.; Owen, Ronald B.; and Joshi, Shrinivas G., to IIT Research Institute. Hybrid surface-wave transducer. 3,665,225, 5-23-72, Cl. 310-8.1.
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Van Den Heuvel, Walter August: *See*—
Brinckman, Eric Maria; Van Den Heuvel, Walter August; Vanhalst, Johan Eugeen; and Heugebaert, Frans Clement, 3,700,452.
Van Den Heuvel, Walter August; Willems, Jozef Frans; Philippaerts, Herman Adelbert; Beels, Roland Francois; and Heylen, Renaat Frans, to Gevaert-Agfa N.V. Proteinaceous colloid compositions provided on glass supports. 3,661,584, 5-9-72, Cl. 96-67.
Van den Heuvel, Walter August; Vanhalst, Johan Eugeen; Brinckman, Eric Maria; and Heugebaert, Frans Clement. Photosensitive massicot Pb(II) in physical development process. 3,684,509, 8-15-72, Cl. 96-48.000.
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Van Den Honert, Taco H., to International Business Machines Corporation. Document handling device provided with a number of rotatable hollow drums with suction openings. 3,663,012, 5-16-72, Cl. 271-51.
Van Den Hoven, Wilhelm Elbertus, to Lenderink & Co., N.V. Edible foam-product. 3,701,669, 10-31-72, Cl. 99-139.000.
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Van Den Ouweland, Godefridus Antonius Maria; and Peer, Henricus Gerardus, to Lever Brothers Company. Flavouring substances. 3,697,295, 10-10-72, Cl. 99-140.00r.
Van Den Plassche, Rudy Johan, to U.S. Philips Corporation. Push-pull amplifier. 3,671,877, 6-20-72, Cl. 330-30.00d.
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van der As, Herman Henricus Maria: *See*—
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Van Der Burg, Willem Jacob, to Organon Inc. Derivatives of 5,6-dihydro-phenanthridine. 3,661,914, 5-9-72, Cl. 260-287.
Van Der Burg, Willem Jacob, to Organon Inc. Dihenzo-pyrazino-azepines. 3,701,778, 10-31-72, Cl. 260-268.0pc.
van der Feyst, Willem H., to N.V. Optische Industrie de Oude Delft. Combined luminescent screen and anti-diffusion grid, and method of making same. 3,643,092, 2-15-72, Cl. 250-80.
Van Der Gaag, Cornelis, to N.V. Industrieele Handelscombinatie. Spud lorry for a floating dredger. 3,648,998, 3-14-72, Cl. 267-150.
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van der Geer, Willem Jan, to Goodrich, B. F., Company, The. Process for producing fibrids from latex foam. 3,668,195, 6-6-72, Cl. 260-94.7.
Van Der Grinten N.V.: *See*—
Breuers, Theo Pierre Cretien, 3,655,287.
Dols, Wilhelmus Emilius Maria, 3,673,985.
Hilhorst, Aloysius Henricus Jacobus, 3,658,538.
Van der Grinten, Willem J.; and Jernakoff, George, to General Electric Company. Multichannel readout mass spectrometer. 3,641,340, 2-8-72, Cl. 250-41.9.
Van Der Heide, Hendrik, to U.S. Philips Corporation. Contact device. 3,638,151, 1-25-72, Cl. 335-153.
Van der Heijde, Martin Clemens; and Groothoff, Adriaan Jacob, to U.S. Philips Corporation. Adjustable mounting assembly for a SeDf deflection coil. 3,688,231, 8-29-72, Cl. 335-210.000.
van der Heyden, Arnoldus: *See*—
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van der Houwen, Derk, to DeStaat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen. Bipolar repeater. 3,651,265, 3-21-72, Cl. 178-70.
Van Der Houwen, Derk, to U.S. Philips Corporation. Method of making a decision on the value of a pulsatory signal and device for carrying out this method. 3,701,947, 10-31-72, Cl. 325-321.000.
Van Der Jagt, Anton, to Westinghouse Electric Corporation. Self-aligned gas assisted lens for laser beam apparatus. 3,685,882, 8-22-72, Cl. 350-63.000.
Van der Kerk, Gerrit Johann Meine; and Tempel, Albert, to U.S. Philips Corporation. Method for preparing bis(alkyldiphenyl tin) sulfide. 3,641,078, 2-8-72, Cl. 260-429.7.
Van Der Kooij, Tijmen, to N.V. Eminent. Electronic rhythm apparatus for a musical instrument. 3,649,736, 3-14-72, Cl. 84-1.03.
van der Lely, Ary: *See*—
van der Lely, Cornelis; and van der Lely, Ary, 3,667,551.
Van Der Lely, Ary; and Bom, Cornelis Johannes Gerardus. Spreading implements with means for varying and directing the flow of materials. 3,682,395, 8-8-72, Cl. 239-666.000.
van der Lely, Cornelis. Devices for distributing material. 3,652,019, 3-28-72, Cl. 239-682.
van der Lely, Cornelis. Device for manufacturing a prefabricated building section. 3,652,052, 3-28-72, Cl. 249-27.
Van Der Lely, Cornelis. Mowing machines. 3,654,750, 4-11-72, Cl. 56-16.2.
van der Lely, Cornelis; and van der Lely, Ary. Cultivating implements. 3,667,551, 6-6-72, Cl. 172-59.
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Van Der Lely, Cornelis. Fertilizer spreaders. 3,687,376, 8-29-72, Cl. 239-661.000.
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Van Der Linde, Aart: *See*—
Piepers, Gijsbrecht G.; Vons, Leonard H.; Van Der Linde, Aart; and Lijbrink, Eduard, 3,646,994.
Van Der Linde, Franciscus Henricus, to N.V. Industrieele Handelscombinatie. Device for the control of the shift movements of a floating body. 3,643,922, 2-22-72, Cl. 254-172.
Van Der Linde, Harold E., to Continental Oil Company. Method and apparatus for towing a submersible barge. 3,672,322, 6-27-72, Cl. 114-235.00b.
Van Der Linde, John R.; and Fairey, Lyle W., to General Electric Company. Contactless direct current motor reversing circuit. 3,694,715, 9-26-72, Cl. 318-139.000.
Van der Linde, Leendert Maarten; and Boelens, Harmannus, to N.V. Chemische Fabriek "Naarden". Process for the preparation of perfume compositions or perfumed articles respectively. 3,681,263, 8-1-72, Cl. 252-522.000.
Van Der Linde, Wim; and Smit, Jacob M., to Stamicarbon N.V. Ethylene polymerization with reduction or interruption of polymerization. 3,634,375, 1-11-72, Cl. 260-88.1.
Van Der Linden, Peter Martinus Cornelis; and Van Gaasbeek, Hans Hubert Hakkenberg, to U.S. Philips Corporation. Transformer. 3,662,305, 5-9-72, Cl. 336-84.
Van Der Linden, Roy E.: *See*—
Gingras, William P.; and Van Der Linden, Roy E., 3,659,110.
Van der Loos, Jan. Actuating handle assembly. 3,643,528, 2-22-72, Cl. 74-876.
Van Der Loos, Jozef L. M.: *See*—
Roest, Bernard C.; Van Der Loos, Jozef L. M.; and Claassen, Peter J. M. W., 3,642,719.
van Asperen, Pieter J.; and van der Loos, Jozef L. M., 3,674,658.
Van Der Loos, Jozef L. M.; and Claassen, Peter J.M.W. Anionic catalytic polymerization of lactams in the presence of an organic isocyanate and a polyether. 3,704,280, 11-28-72, Cl. 260-77.5am.
van der Maaden, Johan, to U.S. Philips Corporation. Claw mechanism for advancing a perforated record carrier along a path. 3,643,842, 2-22-72, Cl. 226-71.
Van der Maarel, Marinus Cornelis: *See*—
Schouten, Gerrit Hilbertus; Bohlmeijer, Nicolaas; Van Der Steeg, Hendrik; and Van der Maarel, Marinus Cornelis, 3,701,981.
van der Maat, Adrianus Theodorus: *See*—
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Van Der Mark, Hendrik H.: *See*—
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Van Der Meer, Samuel; Kruyt, Willem; and Pouwels, Hendrik, to ACF Chemiefarma N.V. Monophosphoric acid esters of halogenated biphenol. 3,662,035, 5-9-72, Cl. 260-953.

Van Der Meide, Benjamin. Material handling apparatus. 3,664,678, 5-23-72, Cl. 280-47.2.

van der Meij, Pieter H.: *See—*
Wagenaar, Adriaan H.; and van der Meij, Pieter H., 3,679,582.

van der Meij, Pieter H.; and Buitelaar, Arnold A., to Shell Oil Company. Polyalkylmethacrylates as pour point depressants for lubricating oils. 3,679,644, 7-25-72, Cl. 260-86.10e.

Van der Meulen, Johan: *See—*
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Van der Molen, John F.: *See—*
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Van Der Molen, Leonard Hendrik, to P. J. Endenburg's Zeilmakerij en Scheepstuigerij N.V. Container lashing. 3,647,172, 3-7-72, Cl. 248-361.

van der Puije, Patrick David, to Northern Electric Company Limited. Telephone anti-sidetone circuit. 3,647,982, 3-7-72, Cl. 179-81.

Van Der Roer, Humphrey Alphons Victor. Machine for printing on cups and the like. 3,695,176, 10-3-72, Cl. 101-39.000.

Van Der Ryn, Sim: *See—*
Hirshen, Sanford; and Van Der Ryn, Sim, 3,676,276.

Van Der Schoot, Jelle; and Temming, Leonardus Johannes, to Van Katwijk's Industrieen N.V. Apparatus for sorting eggs or similar objects according to their weight. 3,635,339, 1-18-72, Cl. 209-121.

Van Der Schuyt, Abraham; and Wolthuis, Kornelis Gerrit, to Koninklijke Zwavelzuurfabrieken voorheen Ketjen N.V. Process for the modification of carbon black. 3,660,133, 5-2-72, Cl. 106-307.000.

Van Der Sluys, William: *See—*
O'Neill, Thomas J.; Szala, Norman M.; and Van Der Sluys, William, 3,631,817.

Van Der Sluys, William; O'Neill, Thomas J.; and Szala, Norman M., to Pullman Incorporated. Welded light alloy car construction. 3,672,309, 6-27-72, Cl. 105-401.000.

Van Der Steeg, Hendrik: *See—*
Schouten, Gerrit Hilbertus; Bohlmeijer, Nicolaas; Van Der Steeg, Hendrik; and Van der Maarel, Marinus Cornelis, 3,701,981.

Van Der Stelt, Cornelis; and Hofman, Petrus Simon, to N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. Ether derivatives of azadibenzocyclohepten-5-ols. 3,635,989, 1-18-72, Cl. 260-294.7.

van der Stelt, Cornelis, to N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. N-[2-(diphenylmethoxy)ethyl] N-methylcinnamylamine and the salts thereof. 3,666,811, 5-30-72, Cl. 260-570.

Van Der Tas, Johannes Cornelis: *See—*
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van der Veen, Romke: *See—*
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Wolters, Tjako Aaldrik; and Van Der Veen, Romke, 3,698,573.

van der Veen, Romke, to N.V. Ingenieursbureau voor Systemen en Octrooien "Spanstaal". Suction dredging installation. 3,669,140, 6-13-72, Cl. 137-334.000.

Van Der Veen, Romke; and Griffioen, Albert, to Combinatic Weslerschelde v.o.f., Utrecht. Method of laying a foundation for a structural element under water. 3,683,632, 8-15-72, Cl. 61-50.000.

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Van Der Veken. Apparatus for transferring a product, liquid or suchlike in a liquid. 3,696,974, 10-10-72, Cl. 222-251.000.

van der Ven, Servaas: *See—*
Smid, Jacoba P. E.; van der Ven, Servaas; van der Vliet, Hendrik; and Van Acker, Eduard M. A. A. J., 3,632,552.

Van Der Ven, Theodorus Johannes: *See—*
Daniels, Hendricus Petrus Cornelis; Van Der Ven, Theodorus Johannes; and Tates, Hans Gerard Karel, 3,670,394.

van der Vliet, Hendrik: *See—*
Smid, Jacoba P. E.; van der Ven, Servaas; van der Vliet, Hendrik; and Van Acker, Eduard M. A. A. J., 3,632,552.

Van Der Voorn, Carol R.; and Willis, Roland G., to Eastman Kodak Company. Photographic silver-bleaching composition. 3,707,374, 12-26-72, Cl. 96-60.000.

Van Der Voorn, Peter C., to Eastman Kodak Company. Thermal desensitization of photosensitive systems. 3,661,583, 5-9-72, Cl. 96-48.

Van Der Waard, Willem F., to Koninklijke Nederlandsche Gist-en Spiritusfabriek N.V. Process for the micro-biological preparation of steroids. 3,684,656, 8-15-72, Cl. 195-51.00g.

Van Der Wel, Hendrik: *See—*
Brouwer, Jan Nicolaas; Henning, Gerardus Johannes; and Van Der Wel, Hendrik, 3,682,880.

Van Der Werff, Bartele, to Vuyk, A., & Zonen's Scheepswerven N.V. Hopper barge. 3,631,827, 1-4-72, Cl. 114-29.

Van Der Werff, Bartele, to Vuyk, A., & Zonen's Scheepswerven, N.V. Hopper barge. 3,688,722, 9-5-72, Cl. 114-29.000.

van der Werff, Chien, to Olympia Werke A.G. Type head setting mechanism. 3,688,888, 9-5-72, Cl. 197-52.000.

Van der Wey, Anton F. Device for cracking the shells of nuts. 3,667,511, 6-6-72, Cl. 146-14.

Van Der Wijden, Franciscus Theodorus Maria, to Werf Conrad en Stork Hijsch N.V. and Nederlandse Maatschappij voor Werken Buitengaats. Drilling apparatus. 3,670,830, 6-20-72, Cl. 175-52.000.

Van Der Winden, Johannes Bernardus, to Stork Amsterdam N.V. Apparatus, like a sterilizer, with a conveyor. 3,704,774, 12-5-72, Cl. 198-152.000.

Van Der Woerd, Albertus Cornelis, to U.S. Philips Corporation. Electromechanical transducer for tuning individual strings of a musical instrument. 3,675,529, 7-11-72, Cl. 84-455.000.

Van Der Zeeuw, Abraham J., to Shell Oil Company. Copper, nickel, cobalt and iron separation process. 3,701,650, 10-31-72, Cl. 75-101.0be.

Van Derbeck, John O. Vapor generating manifold and control system. 3,704,590, 12-5-72, Cl. 60-108.000.

Van Deusen, George S.: *See—*
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Van Deusen, Richard L.: *See—*
Arnold, Fred E.; and Van Deusen, Richard L., 3,632,414.

Van Deven, Dale A., to Federal Mogul Corporation. Molded-lip hydrodynamic shaft seal. 3,633,927, 1-11-72, Cl. 277-134.

Van Diepen, Cornelis Bernardus: *See—*
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Van Dierendonck, Laurentius L.: *See—*
Venderbos, Dirk J.; and Van Dierendonck, Laurentius L., 3,703,502.

Van Dievoet, Jean-Paul Laurent, to Societe Belge pour l'Industrie Nucleaire S.A. Method of fabricating a fuel rod having a porous plug. 3,699,638, 10-24-72, Cl. 29-458.000.

Van Dijk, Cornelis. Tool post holder. 3,680,416, 8-1-72, Cl. 82-36.000.

Van Dijk, Hendrikus Josephus Antonius, to U.S. Philips Corporation. Method of manufacturing a semiconductor device and semiconductor device manufactured by said method. 3,640,807, 2-8-72, Cl. 204-143.

Van Dijk, Jan: *See—*
Davies, Jenkin Eric; and Van Dijk, Jan, 3,658,850.

Van Dijk, Jan; and Davies, Jenkin Eric. Pharmacologically active amino-ethyl oximes. 3,692,835, 9-19-72, Cl. 260-566.0ae.

Van Dijk, Jan, to Shell Oil Company. Industrial furnace. 3,696,862, 10-10-72, Cl. 165-178.000.

Van Dijk, Nicolaas Antonie, to U.S. Philips Corporation. Freeze-dryer. 3,656,240, 4-18-72, Cl. 34-92.

Van Dine, Gilbert August, to Bell Telephone Laboratories, Incorporated. Impedance matching transformer for coupling transmission lines. 3,673,519, 6-27-72, Cl. 333-6.000.

Van Dongen, Cornelis G., to Bio-Research Consultants, Inc. Combination cage and feeder for rodents. 3,699,925, 10-24-72, Cl. 119-18.000.

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Van Doornewaard, Hans; and Jackson, Henry G., to Phillips Fibers Corporation. Method and apparatus for melt spinning of synthetic filaments. 3,679,786, 7-25-72, Cl. 264-176.00f.

Van Doorselaer, Marcel Karel: *See—*
Verbrugghe, Marcel Hendrik; De Cat, Arthur Henri; and Van Doorselaer, Marcel Karel, 3,645,742.

Van Doorselaer, Marcel Karel; Benoy, Gaston Jacob; Van Vugt, Jaak Pieter; and Van Poucke, Raphael Karel, to Gevaert-Agfa N.V. Method of incorporating photographic ingredients into photographic colloid compositions. 3,658,546, 4-25-72, Cl. 96-100.

Van Doren, Arnold H., to Raytheon Company. Non-linear analog to digital converter. 3,646,548, 2-29-72, Cl. 340-347.

Van Dorn Company: *See—*
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Placek, Eugene W., 3,675,905.
Thompson, Robert H., 3,647,309.

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Varlas, Mike, to General Dynamics Corporation. High modulus graphite fiber reinforced hybrid laminates. 3,649,435, 3-14-72, Cl. 161-156.
Varlonga, Giovanni. Metal forms having a particular shape for realizing suspended floors. 3,674,232, 7-4-72, Cl. 249-23.000.
Varlonga, Giovanni. Bearing sections for the covering with marble plates, panels and the like of walls both uninterrupted and interrupted by doors, windows and the like. 3,705,002, 12-5-72, Cl. 52-213.000.
Varnell, Dexter L. Pile driving apparatus. 3,638,738, 2-1-72, Cl. 173-90.
Varner, George C., to Deering Milliken Research Corporation. Method for producing endless reinforcements for vulcanized pneumatic tires. 3,674,079, 7-4-72, Cl. 152-361.000.
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Varouxis, Theodore A. Air cylinder with self-contained pneumatic piston return. 3,645,170, 2-29-72, Cl. 91-399.
Varrati, Anthony J., to Universal Refractories Corporation. Apparatus for vacuum forming hot top bottom rings. 3,645,320, 2-29-72, Cl. 164-160.

Varrati, Anthony J., to Universal Refractories Corporation. Transferring a hot top liner insert from a forming assembly to a dryer by a transfer table and a rollover table. 3,682,770, 8-8-72, Cl. 162-399.000.
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Varsanyi, Denis; and Roth, Willy, to Ciba-Geigy Corporation. Floor polish emulsion containing tris-amino-s-triazines, N,N-bis-(bis-amino-s-triazinyl)-alkylamines, and 1,4-bis-amino-s-triazinyl)-piperazines. 3,634,110, 1-11-72, Cl. 106-3.
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Vartanian, Gurgen Petrosovich; Khutoretsky, Garri Mikhailovich; and Likhota, Lidia Semenovna. Contact device. 3,657,584, 4-18-72, Cl. 310-232.
Vartanian, Richard D., to Ford Motor Company. Carburetor fuel pump pressure actuated spark timing control system. 3,646,920, 3-7-72, Cl. 123-117.
Vartanian, Richard D., to Ford Motor Company. Engine spark timing system. 3,678,907, 7-25-72, Cl. 123-117.00a.
Vartanian, Richard D., to Ford Motor Company. Accelerator pump controlled engine spark timing. 3,699,936, 10-24-72, Cl. 123-117.00a.
Vartia, Karl O. Speed controlled wheel balance indicator. 3,662,705, 5-16-72, Cl. 116-114.
Vartiainen, Osmo O., to Outokumpu Oy. Method for the recovery of heat from hot granular material. 3,677,327, 7-18-72, Cl. 165-1.
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Vary, Willard E. Color restoration of unilayer and duolayer color photographic elements. 3,643,569, 2-22-72, Cl. 95-12.2.
Vasas, Martin M.; White, John C.; and Alexander, Paul M., to Bridgeport Metal Goods Manufacturing Company, The. Cosmetic applicator. 3,662,769, 5-16-72, Cl. 132-88.7.
Vaschetti, Amos: *See—*
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Vasiliev, Mikhail Ivanovich; and Gruzinov, Evgraf Vladimirovich. Hoisting equipment and method of use. 3,638,375, 2-1-72, Cl. 52-116.
Vasilkovsky, Lev Fedorovich; Sjusjuk, Vladimir Efimovich; Abrosimov, Nikoloi Nikitovich; Geidebrekhov, Georgy Andreevich; Lyashenko, Vsevolod Andreevich; and Podmogilny, Vladimir Ivanovich. Apparatus for compacting a moulding mixture. 3,659,642, 5-2-72, Cl 164-169.
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Vass, Edward J.; Braun, Richard H.; and Platt, Conrad R., to United States of America, Air Force. Liquid propellant cartridge. 3,690,255, 9-12-72, Cl. 102-39.000.
Vass, Oscar R., to United States of America, Navy. Expanding deep water sound source vehicle. 3,706,964, 12-19-72, Cl. 340-5.00r.
Vassar, Clyde W., to Abbey, Nelson D. Method for testing welded seam pipes in a tube mill. 3,705,458, 12-12-72, Cl. 29-477.700.
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Vasselin, John F.; deceased (by Vasselin, Herbert F.; administrator), to Fletcher, H. E., Co. Method and apparatus for flame working mineral bodies. 3,658,453, 4-25-72, Cl. 431-158.
Vasseur, Jean-Pierre, to CSF-Compagnie Generale de Telegraphie Sans Fil. Key generators for cryptographic devices. 3,700,806, 10-24-72, Cl. 178-22.000.
Vassil, Theo N.; and Pearson, Howard, to American District Telegraph Company. Method and apparatus for suppressing spurious alarms in an electrical protection system. 3,634,839, 1-11-72, Cl. 340-237.
Vassilakis, Takis P., to Treadwell Corporation. Device to extract power from the oscillation of the sea. 3,631,670, 1-4-72, Cl. 60-22.
Vassilevsky, Anatole N.; deceased (by Vassilevsky, Irene; executrix); and Renke, Adolf, said Vassilevsky, Irene, assor. to V.R.B. Associates Inc. Light-weight high-strength cement compositions. 3,667,978, 6-6-72, Cl. 106-105.
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Vassiliades, Anthony E.; Nauman, Edward F.; and Shroff, Shrenik, to U.S. Plywood-Champion Papers Inc. Microcapsular opacifier system. 3,669,899, 6-13-72, Cl. 252-316.000.
Vassiliades, Anthony E.; Shroff, Shrenik; and Nauman, Edward F., to Champion International Corporation. Synthetic organic pigments, and method for their production. 3,707,514, 12-26-72, Cl. 260-2.50f.
Vassiliadis, Arthur; Zweng, Harold C.; Peppers, Norman A.; and Alterton, Lloyd E., 1/2 to Stanford Research Institute and 1/2 to Stanford University. Slit lamp photocoagulator. 3,703,176, 11-21-72, Cl. 128-395.000.
Vassitch, Pavle, to La Cellophane S.A. Electrophotographic reproduction apparatus. 3,684,367, 8-15-72, Cl. 355-11.000.
Vassos, Louis J.; and Gawron, Alex F. Ground fault current interrupter. 3,633,070, 1-4-72, Cl. 317-18.
Vasta, Joseph A., to Du Pont de Nemours, E. I., and Company. Fluoropolymer coating compositions. 3,655,610, 4-11-72, Cl. 260-39.
Vasta, Joseph A., to Du Pont de Nemours, E. I., and Company. Phthalate esters. 3,663,598, 5-16-72, Cl. 260-475.
Vasta, Joseph A., to Du Pont de Nemours, E. I., and Company. Abrasion resistant coating composition of an acrylic polymer, a polyester and a thermosetting constituent. 3,673,148, 6-27-72, Cl. 260-39.00r.
Vasta, Joseph A., to Du Pont de Nemours, E. I., and Company. Hydroxyl containing copolymers. 3,679,642, 7-25-72, Cl. 260-70.720.
Vasta, Joseph A., to Du Pont de Nemours, E. I., and Company. Coating composition of an epoxy resin, an aromatic sulfonamide, a silicone resin and a cross-linking catalyst. 3,687,879, 8-29-72, Cl. 260-18.0ep.
Vasta, Joseph A., to Du Pont de Nemours, E. I., & Company. Coating compositions containing phthalate esters. 3,707,578, 12-26-72, Cl. 260-67.60r.
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Vaughan, Allan H. Edging attachment for rotary lawn mowers. 3,665,691, 5-30-72, Cl. 56-255.000.
Vaughan, Charles L.; and Vesser, William C., to Continental Sensing Inc. Methods of and apparatus for measuring and/or locating temperature conditions. 3,683,696, 8-15-72, Cl. 73-344.000.
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Vaughan, Lawrence G., to Du Pont de Nemours, E. I., and Company. Organogold compounds. 3,657,296, 4-18-72, Cl. 260-430.
Vaughan, Lawrence G., to Du Pont de Nemours, E. I., and Company. Method of making organogold chloride complexes. 3,661,959, 5-9-72, Cl. 260-430.
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Vaughan, Otha H.; and Malone, Lee B., to United States of America, National Aeronautics and Space Administration. Emergency lunar communications system. 3,667,044, 5-30-72, Cl. 325-4.000.
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Vaughn, James R., to Dow Corning Corporation. Method of polishing leather with compositions containing reaction product of hydroxy endblocked siloxanes and aminofunctional silanes. 3,702,769, 11-14-72, Cl. 106-10.000.
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Vavrick, James E.; and Barthold, Fred O. Printed circuit board socket and holding frame. 3,693,135, 9-19-72, Cl. 339-75.0mp.
Vawter, Verne E.; Wilson, William D.; and Leake, Kyle W., to Rohr Corporation. Electronic tracer method and apparatus for monitoring the path of a numerically controlled machine. 3,633,087, 1-4-72, Cl. 318-565.
Vayson De Pradenne, Henri, to Alsthom-Savoisienne. Cogogenic electrical transformer apparatus having double wall construction. 3,692,207, 9-19-72, Cl. 220-15.000.
Vayssiere, Pierre; and Gomez-de-Bonilla, Juan Kindelan Y., to Institut de Recherches de la Siderurgie Francaise. Apparatus for the continuous refining of metals. 3,701,519, 10-31-72, Cl. 266-34.00r.
Vazirani, Hargovind N., to Bell Telephone Laboratories, Incorporated. Process for the surface treatment of copper and its alloys. 3,632,389, 1-4-72, Cl. 117-49.
Vazirani, Hargovind Nihchaldas, to Bell Telephone Laboratories, Incorporated. Process for the surface treatment of titanium and its alloys. 3,676,223, 7-11-72, Cl. 148-6.15r.
Vazquez, Eugenio A.; and Barcia, Manuel. Oil can opener drip collector. 3,654,969, 4-11-72, Cl. 141-106.
Vazquez, Gonzalo; and Salerni, John V., to Baker Oil Tools, Inc. Disaster valve. 3,633,668, 1-11-72, Cl. 166-135.
Vazzano, Philip, to Warwick Electronics Inc. Record changer. 3,650,539, 3-21-72, Cl. 274-10.
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Veatch, Franklin; Milberger, Ernest C.; and Presson, Robert D., to Standard Oil Company, The. Hydrazine fuel cell and process of operating said fuel cell. 3,657,015, 4-18-72, Cl. 136-83.
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Verses, Christ J.; and Karlson, Eskil L., to Pollution Control Industries, Inc. Sterilizing package and method and means for sterilizing an article and thereafter checking its sterility. 3,704,096, 11-28-72, Cl. 23-230.00r.
Verson Allsteel Press Company: *See—*
Luenser, Kurt K., 3,666,965.
Verson Manufacturing Company: *See—*
Beneke, Jene Arnold, 3,686,967.
Versoy, Harry N.; and Harris, Robert J., to Price, H. C., Co. Method for coating tubular objects. 3,661,624, 5-9-72, Cl. 117-94.000.
Verspui, Gerrit: *See—*
Knippenberg, Wilhelmus Franciscus; Verspui, Gerrit; and Basart, Johan Charles Marie, 3,632,405.
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Dexter, William R., 3,663,029.
Versteeg, Gijsbert. Method and apparatus for driving a rod or a pipe, more particularly an earth electrode, into the ground. 3,688,014, 8-29-72, Cl. 174-7.000.
Versteegh, Jan, to Anaconda Company, The, mesne. Making copper sheets electrolytically. 3,654,096, 4-4-72, Cl. 204-12.
Verstegen, Willi, to International Standard Electric Corporation. Method for the signal exchange in telecommunication, particularly telephone exchanges employing time-division multiplexing. 3,697,696, 10-10-72, Cl. 179-15.
Verster, Nico Frederick, to U.S. Philips Corporation. Oscillator for a cyclotron having two dees. 3,689,847, 9-5-72, Cl. 328-234.000.
Verstraelen, Marie Marcel Arnold Antoine Ghislain; and Reynders, John Richard, to U.S. Philips Corporation. Decoder arrangement for a signal transmission system employing information transmission by means of a quadrature-modulated carrier. 3,646,252, 2-29-2, Cl. 178-5.4.
Vertecs Corporation, Inc.: *See—*
McCain, Samuel B., 3,690,556.
Vertegaal, Jacobus G., to Stork Amsterdam N.V. Device for applying glue to the supporting belt of a screen printing screen. 3,667,426, 6-6-72, Cl. 118-123.
Vertegaal, Jacobus G., to Stork Amsterdam N.V. Device for making a longitudinal cut into the neck of poultry. 3,668,738, 6-13-72, Cl. 17-11.
Vertegaal, Jacobus G., to Stork Amsterdam N.V. Screen printing machine for printing in multicolour a horizontally advanced web. 3,675,571, 7-11-72, Cl. 101-115.000.
Vertesy, Csaba: *See—*
Harsanyi, Kalman; Reiter, Jozsef; Korbonits, Dezso; Gonczi, Csaba; Takacs, Kalman; Bako, Erzsebet; Leszkovszky, Gyorgy; Tardos, Laszlo; and Vertesy, Csaba, 3,647,809.
Verti-East, Inc.: *See—*
Hasselbach, Werner; and Pompili, Peter L., 3,691,441.
Vertin, Thomas D. Method and means for making master models. 3,640,182, 2-8-72, Cl. 90-13.8.
Vertnik, Leonard R., to General Mills, Inc. Polyamides of polymeric fat acids and 1-amino-3-aminomethyl-3,5,5-trimethyl cyclohexane. 3,664,980, 5-23-72, Cl. 260-18.
Vertut, Jean: *See—*
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Germond, Jean-Claude; Guilbaud, Jean-Pierre; and Vertut, Jean, 3,664,517.
Verville, William P. Sediment sample retriever. 3,707,196, 12-26-72, Cl. 175-5.000.
Verweel, Jan: *See—*
Neuhaus, Hans Wilhelm; and Verweel, Jan, 3,702,993.
Verzele, Maurice G. E., 1/2 to S.A. PRB. Method of preparation of extracts of hops. 3,686,316, 8-22-72, Cl. 260-586.00r.
Veschuroff, William C.; and Mustoe, Robert M., to United States Gypsum Company. Decorated gypsum board and method of making same. 3,694,298, 9-26-72, Cl. 161-43.000.
Vesely, Jerome A., to Universal Oil Products Company. HF alkylation of naphthalene. 3,637,884, 1-25-72, Cl. 260-671.
Vesely, Jerome A.; and Schmerling, Louis, to Universal Oil Products Company. Hydroxylation of aromatic acids. 3,678,104, 7-18-72, Cl. 260-521.00r.
Vesely, Kenneth D.: *See—*
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Greenwood, Arthur R.; and Vesely, Kenneth D., 3,652,231.
Greenwood, Arthur R.; and Vesely, Kenneth D., 3,692,496.
Vesely, Kenneth D.; and Gass, Harold D., Jr., to Universal Oil Products Company. Dehydrogenation of saturated hydrocarbons. 3,647,911, 3-7-72, Cl. 260-683.3.
Vesely, Kenneth D., to Universal Oil Products Company. Manufacture of dehydrogenation catalyst. 3,654,186, 4-4-72, Cl. 252-465.
Vesely, Kenneth D., to Universal Oil Products Company. Manufacture of low bulk density-high strength sperical chromia-alumina particles. 3,681,259, 8-1-72, Cl. 252-448.000.
Vesesojuznyi Projektno-Konstruktorskij Institut Technologii Elektrotechnichnickeskogo Proizodstva: *See—*
Kasatkin, Jury Ivanovich; Filimonov, Alexandr Vasilievich; Erlykov, Nikolai Sergeevich; Chikirda, Sergei Ivanovich; Strashinsky, Vadim Konstantinovich; and Zeldin, Vladimir Pinsokhovich, 3,681,833.
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Vesper, George J.: *See—*
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Vessel, Eugene D., to United Aircraft Corporation. Hybrid rocket fuel and process of propulsion using tetraformaltriazine. 3,664,131, 5-23-72, Cl. 60-220.000.
Vessel, Eugene D.; and Ebeling, Robert W., Jr., to United Aircraft Corporation. Hypergolic propellant systems using tetraformaltriazine. 3,664,132, 5-23-72, Cl. 60-220.000.
Vessels, Theodore R.: *See—*
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Vesser, William C.: *See—*
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Vessey, Clifford A.; Albon, Colin; and Holker, Kenneth, to Albright & Wilson Limited. Metal coatings comprising hexavalent chromium, trivalent chromium, silica or a silicate and an alkali metal cation. 3,706,603, 12-19-72, Cl. 148-6.200.
Vessie, Alexander McIntosh, to Price Company Limited, The. Frozen fish package. 3,690,923, 9-12-72, Cl. 117-68.000.
Vessot, Robert F. C.: *See—*
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Vest, Gary W. Auto theft prevention system. 3,634,724, 1-11-72, Cl. 315-209.
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Vestal, Walter H. Pumping system for liquid hydrocarbons and the like. 3,665,808, 5-30-72, Cl. 91-272.000.
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Vester, Rudolph P. Shaker. 3,693,943, 9-26-72, Cl. 259-56.000.
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Vesuvius Crucible Company: *See—*
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Huntsinger, Fritz R.; and Hanes, James W. E., 3,638,732.
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Vetor, Earl Leon; and Faust, Helmuth, to Globe-Union Inc. Multicell storage battery. 3,692,587, 9-19-72, Cl. 136-134.00r.
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Vettel, Richard. Guitar safety strap. 3,688,012, 8-29-72, Cl. 84-327.000.
Vetter, Hans: *See—*
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Vetter, Hans; Danhauser, Justus; Kabitzke, Karlheinz; Marx, Paul; Melzer, Arnfried; Pelz, Willibald; and Puschel, Walter, to Agfa-Gevaert Aktiengesellschaft. Diffusion-fast color-forming developing agents. 3,705,035, 12-5-72, Cl. 96-55.000.
Vetter, Hans-Joachim, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the polymerization of olefins. 3,694,421, 9-26-72, Cl. 260-88.20r.
Vetter, Lothar: *See—*
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Vetter, Ottomar H., to United-Carr, Incorporated. Combined cable clamp and seal for a backshell. 3,675,184, 7-4-72, Cl. 339-103.0b.
Vetter, Ottomar H., to United-Carr, Incorporated. Quick-release electrical connector. 3,678,439, 7-18-72, Cl. 339-46.000.
Vetter, Richard H., to United Artists Theatre Circuit, Inc. Multiple-display sign device. 3,657,833, 4-25-72, Cl. 40-35.
Vetter, Richard H., to United Artists Theatre Circuit, Inc. Focusing anamorphic optical system. 3,682,533, 8-8-72, Cl. 350-181.000.
Veugelers, Hubertus Leonardus Martinus, Jr. Diaphragm valve. 3,633,874, 1-11-72, Cl. 251-330.
Vey, John E.: *See—*
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Vez, Serge, to La Spirotechnique. Device for discharging a gas towards a space having a lower pressure. 3,633,601, 1-11-72, Cl. 137-81.
Vezina, Jean A., to Les Entreprises Vezina, Jean A., Ltee. Pedriatric device for immobilizing a patient child. 3,655,178, 4-11-72, Cl. 269-323.
Vezner, Kenneth W. Grinding and polishing machine. 3,631,635, 1-4-72, Cl. 51-177.
Vezza, Hamlet D., to Texas Instruments, Incorporated. Apparatus for making a snap acting thermostatic element. 3,654,798, 4-11-72, Cl. 72-412.
Vezzani, Pompeo. Method for making dough. 3,694,227, 9-26-72, Cl. 99-90.0cb.
Vi-Vox, Incorporated: *See—*
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Vial, Jacques: *See—*
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Viaud, Jean, to Societe Argenton, Societe Anonyme. Valve actuator means. 3,702,091, 11-7-72, Cl. 42-73.000.
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Viazzi, Pierre, to Societe Internationale d'Application de Procedes Industriels (S.I.A.P.I.) S.A. Joints for connecting pipes. 3,667,782, 6-6-72, Cl. 285-110.000.
Viberg, Oskar: *See—*
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Vibra-Baths Home Products, Inc.: *See—*
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Vicard, Pierre. Electrostatic dust separator. 3,668,835, 6-13-72, Cl. 55-107.000.
Vicari, Felix J., to ACF Industries, Incorporated. Manual override indicator for gate valve. 3,706,321, 12-19-72, Cl. 137-554.000.
Vicario, Guido. Method and apparatus for conveying liquids to be analyzed to an automatic spectrophotometrical reading cuvette. 3,705,773, 12-12-72, Cl. 356-180.000.
Vicars, Earl C.: *See—*
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Vicentini, Giorgio; and Console, Giulio, to Boeri di A.G. Boer & C. Spraying device, more particularly for abrasive liquid compositions. 3,705,687, 12-12-72, Cl. 239-92.000.
Vicik, Frederick, to Columbia Broadcasting System, Inc. Optical scanning system. 3,667,360, 6-6-72, Cl. 95-12.500.
Vicini, Dino, to Mas Hydraulic & Vulcanizing Machinery Co. S.r.l. Vertically closing press for injection molding thermoplastic, thermosetting and elastomeric materials. 3,695,809, 10-3-72, Cl. 425-450.000.
Vick, Gerald L., to Conrac Corporation. Silicon diaphragm with integral bridge transducer. 3,641,812, 2-15-72, Cl. 73-88.5.
Vick, Stephen L., to Black and Decker Manufacturing Company, The. Brush lead retainer. 3,641,379, 2-8-72, Cl. 310-239.
Vick, Stephen L.; and Clark, Weldon H., Jr., to Black and Decker Manufacturing Company, The. Air spring bleed assembly. 3,688,848, 9-5-72, Cl. 173-116.000.
Vickers, Charles W., III, to Rosenbloom, Percy, Jr. Combined flashlight and chemical expelling device. 3,638,836, 2-1-72, Cl. 222-113.
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Vickers, Paul T., to General Motors Corporation. Regenerative gas turbine system. 3,705,492, 12-12-72, Cl. 60-39.510.
Vickers, Robert V., to Park-Ohio Industries, Inc. Inductor for heating an elongated, flanged workpiece. 3,649,797, 3-14-72, Cl. 219-10.79.
Vickers Ruwolt Proprietary Limited: *See—*
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Vickland, Clayton W., to United States of America, Air Force. Thrust control system for hybrid rocket motors. 3,677,011, 7-18-72, Cl. 60-251.000.
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Victor, Irving, to Research Development Co. Dry cleaning of textile fibers and other garment materials with chlorofluoro hydrocarbons having relatively high freezing points. 3,664,806, 5-23-72, Cl. 8-142.
Victor, Michel N. Quick release nut. 3,675,530, 7-11-72, Cl. 85-33.000.
Victoreen, John A. Audio oscillator for generating either c.w., damped wave trains, or narrow band noise. 3,652,953, 3-28-72, Cl. 331-78.
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Vida, Julius A.; and Wilber, William R., to Kendall Company, The. N,N'Bishalomethyl phenobarbital compounds. 3,635,980, 1-18-72, Cl. 260-257.
Vida, Julius A., to Kendall Company, The. Acyloxymethyl derivatives of diphenylhydantoin. 3,676,454, 7-11-72, Cl. 260-309.500.
Vida, Julius A., to Kendall Company, The. Analgetic composition and method employing 1-morpholinomethyl-5-ethyl-5-phenyl barbituric acid. 3,683,083, 8-8-72, Cl. 424-248.000.
Vidal, Frederick D., to Pennwalt Corporation. Treatment of flour and dough. 3,655,403, 4-11-72, Cl. 99-91.
Vidal, Gilbert; and Peron, Bernard, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). Method and arrangement for quenching a braking thyratron for motors. 3,651,390, 3-21-72, Cl. 318-269.
Vidal, Henri C. Constructional works. 3,686,873, 8-29-72, Cl. 61-39.000.
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Vidal, Jean; Parisot, Jean; and Lemoine, Jacques, to Stein Industries. Steam gas turbine including a gas turbine and a steam turbine with a steam generator at the downstream end. 3,667,217, 6-6-72, Cl. 60-39.02.
Vidal, Jean; and Lemoine, Industries, to Stein Industrie. Method and means cutting out low temperature corrosion by sulphur containing fuel in the terminal parts of a steam generator in the absence of air-heating means. 3,675,423, 7-11-72, Cl. 60-107.00.
Vidal, Jean; Parisot, Jean; and Lemoine, Jacques, to Stein Industries. Method and means for operating a steam gas plant including a gas turbine, a steam turbine with its steam generator at the downstream end. 3,675,426, 7-11-72, Cl. 60-39.18b.
Vidal, Jean; Parisot, Jean; and Lemoine, Jacques, to Stein Industries. Method and means for improving the operation of a steam gas plant including a gas turbine and a steam turbine with a steam generator at the downstream end. 3,691,760, 9-19-72, Cl. 60-3918b.
Vidal Sario, Javier. Process for the manufacture of box type tubular structural members having selectively different cross-sectional dimensions. 3,646,663, 3-7-72, Cl. 29-463.
Video Engineering, Inc.: *See—*
Daniel, Kenneth D., 3,696,378.

Video Information Systems, Inc.: *See—*
Beck, Joseph H., 3,676,580.
Video Logic Corporation: *See—*
Segerstrom, Richard J., 3,662,101.
Video West, Inc.: *See—*
Flagle, Harry David, 3,654,385.
Vidjak, Frank V., to Star-Kist Foods, Inc. Fish butchering apparatus. 3,675,273, 7-11-72, Cl. 17-61.000.
Vidovic, Nikola, to Singer Company, The. Frequency dependent zero phase shift. 3,657,559, 4-18-72, Cl. 307-230.
Vie, Robert: *See—*
Cassimatis, Jean; and Vie, Robert, 3,691,725.
Viechnicki, Dennis J.: *See—*
Schmid, Frederick; and Viechnicki, Dennis J., 3,653,432.
Viecili, Alessandro: *See—*
Merkner, Albert H.; Viecili, Alessandro; and McCoy, Robert C., 3,653,525.
Viegelahn, Gary L., to Michigan Technological University, Board of Control of. Apparatus for measuring angular rotation. 3,683,685, 8-15-72, Cl. 73-136.00a.
Viehe, Heinz G.: *See—*
Buijle, Raoul; and Viehe, Heinz G., 3,644,374.
Viehe, Heinz G.; and Delavarenne, Serge Y., to Union Carbide Corporation. N,N-dialkyl-aminoacetylenethioethers. 3,654,368, 4-4-72, Cl. 260-583.
Viehmann, George A.: *See—*
Long, Alfred R.; and Viehmann, George A., 3,635,614.
Olsen, Robert W.; Rodgers, David P.; and Viehmann, George A., 3,631,790.
Viehmann, George A., Jr.: *See—*
Olsen, Robert W.; Rodgers, David P.; and Viehmann, George A., 3,631,790.
Viehrig, Wolfgang: *See—*
Kohler, Roland; Nagel, Erich; Hujer, Friedrich; and Viehrig, Wolfgang, 3,674,365.
Viel, Floyd W. Front loader type rock picker. 3,643,821, 2-22-72, Cl. 214-140.
Vielhauer, Harold G. Apparatus for physiological investigation. 3,695,253, 10-3-72, Cl. 128-2.05p.
Viellet, Guy, to Societe Industrielle d'Electro-Metallurgie. Device for locking a cutting plate on the body of a tool holder. 3,648,341, 3-14-72, Cl. 29-96.
Vien, Hans: *See—*
Giljarhus, Gunnar; and Vien, Hans, 3,677,181.
Viene, John G., to Koch Supplies, Inc. Meat grinder. 3,653,420, 4-4-72, Cl. 146-186.
Vienet, Roger: *See—*
Bex, Lucien; Faure, Jean; and Vienet, Roger, 3,702,416.
Vier, Fritz; and Winkeler, Bernhard, to Wintershall Aktiengesellschaft. Process and installation for burning combustible mixtures. 3,659,786, 5-2-72, Cl. 239-5.
Vierling, Hermann: *See—*
Sennewald, Kurt; Ohorodnik, Alexander; Hundeck, Joachim; Mittler, Werner; Vierling, Hermann; and Opitz, Wolfgang, 3,660,306.
Viers, Jean-Charles; and Jaure, Robert Pierre, to U.S. Philips Corporation. Method and device for the manufacture of electron tubes. 3,702,212, 11-7-72, Cl. 316-3.000.
Viersma, Taco Jan: *See—*
Blok, Petrus; and Viersma, Taco Jan, 3,654,918.
Vierstraete, Jean. Apparatus for machining elongated workpieces. 3,685,915, 8-22-72, Cl. 408-26.000.
Viertel, Gunther: *See—*
Baader, Herbert; Sennewald, Kurt; Reis, Helmut; and Viertel, Gunther, 3,649,700.
Baader, Herbert; Sennewald, Kurt; Reis, Helmut; and Viertel, Gunther, 3,689,579.
Viescas, Arthur B.: *See—*
Calvert, Rodney K.; Viescas, Arthur B.; and Fishback, Alton J., 3,642,414.
Elrod, Ernest; and Viescas, Arthur B., 3,705,069.
Vieser, Wolfgang: *See—*
Bringe, Wolfgang; Querfurth, Eberhard; Schanbacher, Hans-Albr.; Seiberth, Hans-Jurgen; and Vieser, Wolfgang, 3,662,304.
Vieson, John W.; and Baker, William A., to Jones, R. A., & Co., Inc. Bag packer. 3,670,474, 6-20-72, Cl. 53-55.000.
Viessmann, Hans. Prefabricated and transportable basins or pools. 3,641,595, 2-15-72, Cl. 4-172.19.
Viessmann, Hans. Boilers. 3,664,308, 5-23-72, Cl. 122-149.
Viessmann, Hans. Rotary valve dispenser for tablets. 3,680,736, 8-1-72, Cl. 221-14.000.
Viessmann, Hans. Boiler. 3,683,867, 8-15-72, Cl. 122-136.00r.
Vieth, George C., Jr.: *See—*
Barron, Roger L.; Kelleher, Kenneth S.; and Vieth, George C., Jr., 3,680,126.
Vietorisz, Joseph A.: *See—*
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Vietzke, Horst: *See—*
Ploger, Fritz; and Vietzke, Horst, 3,676,075.
Viewlex, Inc., mesne: *See—*
Kongelka, Robert Michael, 3,696,899.
Vig, Istvan, to Aktiengesellschaft Brown, Boveri & Cie. Milling tool. 3,641,871, 2-15-72, Cl. 90-11.
Vigeant, George Henry; and Kloth, James Albert, to AMP Incorporated. Notched plate clasp apparatus. 3,683,319, 8-8-72, Cl. 339-97.00r.
Vigh, Michael Walter; and Rocheleau, Harold Thomas, to RCA Corporation. Method of removing polyurethane resin protective coating. 3,661,641, 5-9-72, Cl. 134-6.
Vigh, Zoltan. Hertzian stress reducing means for gears and bearings. 3,636,792, 1-25-72, Cl. 74-461.
Vigil, Jacob F.: *See—*
Hauck, Erwin Arthur; and Vigil, Jacob F., 3,639,909.
Price, William Chandler; Hauck, Erwin A.; and Vigil, Jacob F., 3,693,161.
Vigilante, Frank S.: *See—*
Ulrich, Werner; and Vigilante, Frank S., 3,643,032.
Vignau, Michel: *See—*
Bucourt, Robert; Vignau, Michel; and Raynal, Jean, 3,637,754.
Bucourt, Robert; Vignau, Michel; and Raynal, Jean, 3,637,755.
Bucourt, Robert; Vignau, Michel; and Raynal, Jean, 3,637,756.
Vignes, Roger, to Service National dit: Gaz de France. Gas burner. 3,635,209, 1-18-72, Cl. 126-39.
Vignes, Roger, to Service National dit: Gaz de France. Gas burners. 3,687,602, 8-29-72, Cl. 431-347.000.
Vignini, Walter R., to Sonotone Corporation. Fluid metal electrical switch. 3,637,969, 1-25-72, Cl. 200-203.
Vignini, Walter R., to Sonotone Corporation. Carrier for variable battery retention. 3,673,002, 6-27-72, Cl. 136-173.000.
Vignini, Walter R., to Gould Inc., mesne. Battery holder and three-position switch for hearing aid. 3,701,862, 10-31-72, Cl. 179-107.00h.
Vignola, Giulio: *See—*
Leone, Girolamo; and Vignola, Giulio, 3,657,608.
Vignola, Paul: *See—*
Tonkowich, William; Meditz, John A.; and Vignola, Paul, 3,662,226.
Tonkowich, William; Meditz, John A.; and Vignola, Paul, 3,670,836.
Vignon, Louis, to Hispano Suiza (Swiss) S.A. Apparatuses for removing and replacing bobbins in a spindle type spinning machine, and a method of using such apparatuses. 3,686,847, 8-29-72, Cl. 57-52.000.
Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., to United States of America, Agriculture. Fibrous crosslinked (aminoalkyl)aminochlorodeoxycellulose and method of preparation. 3,698,857, 10-17-72, Cl. 8-116.200.
Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., to United States of America, Agriculture. Fibrous (carboxyalkylthio)- and (carboxyarylthio chlorodeoxycelluloses and method of preparation. 3,702,754, 11-14-72, Cl. 8-120.000.
Vigor, Charles W.: *See—*
Hornaday, James R., Jr.; Miller, Edwin J.; and Vigor, Charles W., 3,632,980.
Vigorito, Benito. Exercising device. 3,672,094, 6-27-72, Cl. 46-62.000.
Vigren, Sten Daniel: *See—*
Zander, Rolf Albin; Claesson, Per Harry Elias; and Vigren, Sten Daniel, 3,649,938.
Vigus, Cebron T., to Combustion Engineering, Inc. Hydraulic positioning saddle. 3,675,915, 7-11-72, Cl. 269-58.000.
Vihl, Bernhard. Dye beck. 3,686,901, 8-29-72, Cl. 68-15.000.
Vik, Albam M., to Inventors Engineering Inc. Slit trench digging apparatus. 3,638,339, 2-1-72, Cl. 37-98.
Vik, Albam M., to Inventors Engineering Inc. Pallet for handling shipping drums. 3,654,875, 4-11-72, Cl. 108-51.
Vik, Albam M., to Dempco, Inc. Snowmobile ski and blade construction. 3,675,939, 7-11-72, Cl. 280-28.000.
Vik, Albam M., to Dempco, Inc. Unique hydraulic coupler. 3,680,591, 8-1-72, Cl. 137-614.050.
Viking Explosives & Supply Inc.: *See—*
Bednar, David H., 3,702,223.
Viking Industries, Inc.: *See—*
Iversen, Ralph T., 3,657,682.
Viking Snowmobile, Inc.: *See—*
Hendrickson, George Vernon, 3,701,394.
Viks, Paavo Yaanovich: *See—*
Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.
Vikstrom, Dennis G., to General Motors Corporation. Clamp on current detector. 3,706,032, 12-12-72, Cl. 324-127.000.
Viktora, Josef Karel; and Baukal, Albert Jozel, to Research Foundation of the Washington Hospital Center. Apparatus for transport and storage of liquid specimens for radio-immunoassay for insulin. 3,675,488, 7-11-72, Cl. 73-421.00r.
Vikulina, Ninel Vladimirovna: *See—*

Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrischev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olge Demidovna; an Yarovaya, Galina Dmitrievne, 3,674,496.

Vilagi, Burton J.: *See—*
Nord, Eric T.; Rosen, Samuel R.; Scarbrough, Don R.; Vilagi, Burton J.; and Runstadler, Peter W., Jr., 3,635,400.
Scarbrough, Don R.; and Vilagi, Burton J., 3,672,570.

Vilain, Raymond, to Rhone-Poulenc S.A. Hospital glove. 3,683,420, 8-15-72, Cl. 2-161.00r.

Vilain, Robert H., to Compagnie Francaise d'Enterprises. Means for measuring forces, notably at the foot of an oscillating column or an offshore drilling platform. 3,648,514, 3-14-72, Cl. 73-100.

Vilain, Robert H., 50% to Compagnie Franciase d'Entreprises Metalliques. Installations for submarine work. 3,667,240, 6-6-72, Cl. 61-46.5.

Vilanova, Eduardo Salles. Manufacture of spindles for ring-spinning and twisting frames. 3,691,747, 9-19-72, Cl. 57-135.000.

Vilardi, Frank: *See—*
Meshbane, Alex; and Vilardi, Frank, 3,677,930.

Vilas Industries Limited: *See—*
Favreau, Marcel, 3,701,506.

Vilcins, Ilmar J.; and Frey, Robert J., to Signode Corporation. Electrically controlled hand tool for friction-fusing non-metallic strap. 3,669,799, 6-13-72, Cl. 156-359.000.

Vilder, Andre. Vinyl boots, gloves or the like. 3,657,757, 4-25-72, Cl. 12-146.

Vilen, Erik O., to Triangle Package Machinery Company. Wrapping machine. 3,631,653, 1-4-72, Cl. 53-378.

Viles, Roger Stanley, to Marconi Instruments Limited. Adjustable frequency generator equipments. 3,684,977, 8-15-72, Cl. 331-183.000.

Vilf, Fernando Zhozevich; and Lysenko, Alexandr Pavlovich. Homogeneous semiconductor with interrelated antibarrier contacts. 3,660,733, 5-2-72, Cl. 317-234.

Vilh. Pedersen A/S: *See—*
Jacobsen, Erik Chresten, 3,643,534.

Vilkas, Eugene P.; and Kazlauskas, Gasparas, to Astro-Arc Company. Automatic melt-thru welding method and apparatus. 3,702,915, 11-14-72, Cl. 219-137.000.

Vilker, Simon Borisovich: *See—*
Kruglikov, Anatoly Abramovich; Nikolaeva, Militina; Vilker, Simon Borisovich; and Detkov, Viktor Vasilievich, 3,689,463.

Vilkov, Fedor Nikolaevich; Negrimovsky, Mikhail Grigoreivich; and Pasik, Alexei Nikolaevich. Haymaking machine wherein leaves are separated from stalks in the course of hay transportation. 3,631,661, 1-4-72, Cl. 56-364.

Villa, Alfonso: *See—*
MacLean, Charles C., III; and Villa, Alfonso, 3,640,040.

Villa, Jose L., to Thiokol Chemical Corporation. Method of making ethylene sulfide polymers by addition of stabilizers to reaction mixture prior to polymerization. 3,679,616, 7-25-72, Cl. 260-18.00r.

Villalba, Fred A., Jr. Food mold. 3,671,008, 6-20-72, Cl. 249-155.000.

Villalon, Michel: *See—*
Laboureur, Pierre; and Villalon, Michel, 3,634,191.

Villaneu, Michel, to IBS Industrialized Building Systems, Incorporated. Prefabricated building panel having positioner means. 3,696,567, 10-10-72, Cl. 52-98.000.

Villani, Luciano. Spring loaded spectacle hinge. 3,644,023, 2-22-72, Cl. 351-113.

Villanueva, Antonio R., 1/2 to Wren, Holvy. Game stick and method of manipulating it. 3,674,263, 7-4-72, Cl. 273-1.00r.

Villanueva, Jaime P.: *See—*
Lucas, Malcolm B.; Villanueva, Jaime P.; and Rowe, Stewart, 3,667,596.

Villanueva, James G.: *See—*
Quinn, Thomas M.; and Villanueva, James G., 3,652,473.

Villanueva, Jesus T.: *See—*
Villanueva, Juan T.; and Villanueva, Jesus T., 3,670,366.

Villanueva, Juan T.; and Villanueva, Jesus T. Automatic stripping machine for abaca and allied fiber bearing plants. 3,670,366, 6-20-72, Cl. 19-12.000.

Villanueva, Juanito O.: *See—*
Garcia, Armando J.; Gunther, Gregory M.; and Villanueva, Juanito O., 3,690,030.
Lewis, J. Stephen; Collins, Harold B.; Sapkus, Jurgis; and Villanueva, Juanito O., 3,693,288.

Villard, Michel: *See—*
Combe, Christian; Clouet, Andre; Marchal, Michel; Villard, Michel; and Grenier, Pierre, 3,658,680.

Villard, Oswald G., Jr., to United States of America, Navy. Automatic frequency control for suppressed carrier receivers. 3,704,420, 11-28-72, Cl. 325-329.000.

Villari, Frank K.: *See—*
McWhorter, Daniel M.; and Villari, Frank K., 3,693,407.

Villari, Frank K., to Kendall Company, The. Urine meter and drainage receptacles. 3,683,894, 8-15-72, Cl. 128-2.00f.

Villasana, Armando P.: *See—*
Lewis, J. Stephen; Sapkus, Jurgis; and Villasana, Armando P., 3,696,553.

Villasor, Angel P., to Westinghouse Electric Corporation. Seal lift-off mechanism. 3,632,117, 1-4-72, Cl. 277-3.

Villavicencio, Eduardo Joel, to Process Evaluation and Development Corporation. Method for processing fibrous stalks. 3,688,345, 9-5-72, Cl. 19-7.000.

Villax, Ivan, to International Rectifier Corporation. Production of oxytetracycline using streptomyces alboflavus (ATCC 15388). 3,637,463, 1-25-72, Cl. 195-80.

Ville, Frans Jan; Willems, Jozef Frans; and Pattijn, Hendrik Adolf, to Gevaert-Agfa N.V. Photographic elements containing carboxyalkyl polyglycol ethers and esters. 3,663,229, 5-16-72, Cl. 96-67.

Villella, Thomas J.: *See—*
Krutz, Ronald L.; and Villella, Thomas J., 3,707,621.

Villemaud, Jean Etienne. Conveyors intended to carry directly objects or objects mounted on supports. 3,675,754, 7-11-72, Cl. 198-20.000.

Villeret, Michel: *See—*
Deschenes, Pierre A.; and Villeret, Michel, 3,694,639.
Deschenes, Pierre A.; and Villeret, Michel, 3,707,712.

Villeroy Boch Keramische Werke, KG: *See—*
Spaeth, Claus; and Wilhelm, Gunter, 3,688,448.

Villers, Philippe; Allen, Martin A.; and Mulvaney, James M., to Computervision Corporation. Enhanced contrast semiconductor wafer alignment target. 3,660,157, 5-2-72, Cl. 117-212.000.

Villers, Walter H.; and Johnson, Ernest B., to Ampex Corporation. Tape retaining reel cartridge. 3,677,495, 7-18-72, Cl. 242-197.000.

Villey-Desmeserets, Franck Pierre Antoine: *See—*
Bouisse, Jean Marie Germain; Martel, Charles Etienne Georges; and Villey-Desmeserets, Franck Pierre Antoine, 3,706,283.

Villiers, Ralph F.: *See—*
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Yelin, Robert E.; Sitver, Leonard A.; and Villiers, Ralph F., 3,649,164.

Villiers-Fisher, John F.: *See—*
Tourtellotte, John F.; Negra, John S.; Warshaw, Abe; and Villiers-Fisher, John F., 3,699,683.

Villiers-Fisher, John F.; and Warshaw, Abe, to Chemical Construction Corporation. Removal of sulfur dioxide from waste gases. 3,632,306, 1-4-72, Cl. 23-2.

Villiers-Fisher, John F.; and Kaupas, Philip F., to Chemical Construction Corporation. Process for urea synthesis. 3,636,106, 1-18-72, Cl. 260-555.

Villiers-Fisher, John F., to Chemical Construction Corporation. Removal of sulfur dioxide from waste gases. 3,650,692, 3-21-72, Cl. 23-178.

Villini, Gregorio, to Pellizzetti, Italo. Surface burner systems. 3,653,795, 4-4-72, Cl. 431-247.

Villo, Joseph P.: *See—*
Wilson, Charles A.; and Villo, Joseph P., 3,687,501.

Vilshammer, Theodor, to Aktieselskabet Laur. Knudsen, Nordisk Elektricitets Selskab Selskal. Housing for an airfield inset runway light. 3,689,757, 9-5-72, Cl. 240-1.200.

Vilter Manufacturing Corporation: *See—*
Kocher, Erich J., 3,656,876.

Vin Dick, James. Christmas tree lights. 3,676,662, 7-11-72, Cl. 240-10.00t.

Vinal, Albert W., to International Business Machines Corporation. Coaxial anisotropic magnetic film storage device with burst cycle writing. 3,680,064, 7-25-72, Cl. 340-174.0qa.

Vinarnick, Louis: *See—*
Blum, Paul; Lefrancois, Jacques; and Vinarnick, Louis, 3,705,101.

Vinatieri, John D.: *See—*
Stiles, Hallett R.; and Vinatieri, John D., 3,636,268.

Vince, Michael A.: *See—*
Cade, Ronald L.; and Vince, Michael A., 3,646,910.
Kamola, Roman C.; Vince, Michael A.; Gundlach, Robert W.; and Gunther, Kenneth W., 3,704,524.

Vincent, Andrew W. Electromagnetic shutter with detent. 3,664,251, 5-23-72, Cl. 95-59.

Vincent, Andrew W. Timer circuit for magnetic actuators. 3,706,011, 12-12-72, Cl. 317-151.000.

Vincent, Bird J. Method of forming silicone rubber articles. 3,663,666, 5-16-72, Cl. 264-13.000.

Vincent, Conway; and Garbe, Siegfried. Turbine driven cleaning tool. 3,688,339, 9-5-72, Cl. 15-387.000.

Vincent, Daniel A.: *See—*
Vincent, Daniel B.; Vincent, Daniel A.; and Roberts, George C., 3,700,017.

Vincent, Daniel B.; Vincent, Daniel A.; and Roberts, George C., to Consolidated Machines, Inc. Citrus fruit peeling machine. 3,700,017, 10-24-72, Cl. 146-3.00m.

Vincent, David A.: *See—*
Hantusch, Gerald H.; Vincent, David A.; and Van Tongerloo, Eric H., 3,675,089.

Vincent, David H.; and Johnson, Rodney L., to Art Metal -U.S. Corporation. Welded base for chair or the like. 3,682,425, 8-8-72, Cl. 248-188.700.
Vincent, Derek A.: *See—*
Gill, Edward W.; and Vincent, Derek A., 3,672,483.
Vincent, Eugene: *See—*
Billon, Gerard; Henry, Jean Claude; and Vincent, Eugene, 3,700,848.
Vincent, Gerald G.; and Anderson, Thomas E., to De Soto, Inc. Lacquers containing guanamine-based polyimide resins. 3,642,682, 2-15-72, Cl. 260-30.4.
Vincent, Gerald G.; and Anderson, Thomas E., to De Soto, Inc. Water-dispersible polyimide coatings. 3,652,511, 3-28-72, Cl. 260-78.
Vincent, Harold L.: *See—*
Hartlein, Robert C.; and Vincent, Harold L., 3,639,155.
Vincent, James Henry, to American Standard, Inc. Collecting apparatus for electrostatic precipitators. 3,664,092, 5-23-72, Cl. 55-112.
Vincent, Jean-Marie: *See—*
Gauthier, Charles; and Vincent, Jean-Marie, 3,667,886.
Vincent, Jetta V.: *See—*
Hedgepeth, Edward B., 3,635,496.
Vincent, John Ross: *See—*
Wiewiorowski, Tadeusz K.; and Vincent, John Ross, 3,633,339.
Vincent, Michel; Remond, Georges; and Poignant, Jean-Claude, to Societe en nom collectif "Science Union et Cie, Societe Francaise de Recherche Medicale". Cyclohexenyl acetic acid compounds. 3,697,588, 10-10-72, Cl. 260-514.00r.
Vincent, Peter Incledon: *See—*
Rose, John Brewster; Mathews, Carl Fraser; Nield, Eric; and Vincent, Peter Incledon, 3,634,547.
Vincentsen, Barbara Egee: *See—*
Casler, Nancy Lee Cecile; and Vincentsen, Barbara Egee, 3,682,641.
Vincenty, Henry E., to Euclid, Inc. Exhaust system for a load dumping vehicle. 3,695,708, 10-3-72, Cl. 298-1.00h.
Vincer, John C.: *See—*
McCune, Clarence G.; Vincer, John C.; and Graves, Kenneth E., 3,667,668.
Vinch, Angelo N.: *See—*
Schnur, Earl J.; and Vinch, Angelo N., 3,654,539.
Vinch, Angelo N.; and Kamulski, David A., to Westinghouse Electric Corporation. Safety circuit for electronic machine controls of the plug-in modular type. 3,691,399, 9-12-72, Cl. 307-149.000.
Vincken, Leonardus M. J.; Agerbeek, Paul F.; and Hoekenga, Piet E., to Shell Oil Company. Method and apparatus for carrying out underwater well operations. 3,681,928, 8-8-72, Cl. 61-46.500.
Vind, Harold P., to United States of America, Navy. Method and apparatus for supplying air. 3,656,276, 4-18-72, Cl. 55-46.
Vind, Ove Andersen. Machine for producing and filling bags. 3,656,274, 4-18-72, Cl. 53-183.
Vindez, Pierre G.: *See—*
Bohorquez, Luis; and Vindez, Pierre G., 3,679,320.
Vindez, Pierre G.; and Bohorquez, Luis A., to Zephyr Manufacturing Co., Inc. Portable drill with power drawbar clamping device. 3,663,115, 5-16-72, Cl. 408-79.
Vine, James: *See—*
Santilli, Vincent J.; Vine, James; and Cotterman, James W., 3,688,122.
Vine, Raymond W.: *See—*
Emanuelson, Roger C.; Stewart, Robert C.; and Vine, Raymond W., 3,694,310.
Vine, Raymond W.; Watson, Paul R.; and Luoma, Warren L., to United Aircraft Corporation. Fuel cell reactor-burner assembly. 3,635,682, 1-18-72, Cl. 23-288.
Vinella, Frank P. Dry grinding terrazzo floor finishing machine. 3,701,221, 10-31-72, Cl. 51-177.000.
Viner, Derek G.; and Thompson, John S., to Plessey Company Limited, The. Method of making a bearing. 3,660,881, 5-9-72, Cl. 29-149.5nm.
Vines, John Murray: *See—*
Martin, Gerald Y.; and Vines, John Murray, 3,661,090.
Vines, Raymond Francis: *See—*
Olson, John Henry; and Vines, Raymond Francis, 3,663,217.
Vines, Sterling N.: *See—*
Halvorson, David O.; and Vines, Sterling N., 3,691,226.
Vineyard, Billy D.: *See—*
Coran, Aubert Y.; and Vineyard, Billy D., 3,677,726.
Coran, Aubert Y.; and Vineyard, Billy D., 3,706,667.
Vineyard, Billy D., to Monsanto Company. Mono- and bis-nitrogen-containing compounds. 3,647,691, 3-7-72, Cl. 252-51.5.
Vineyard, Billy D., to Monsanto Company. Hydroxyboroxin-amine salts. 3,658,836, 4-25-72, Cl. 260-309.7.
Vineyard, Harry: *See—*
Kincaid, Harrison S.; Hostettler, Fritz; and Vineyard, Harry, 3,651,021.
Kincaid, Harrison S.; Hostettler, Fritz; and Vineyard, Harry, 3,654,347.
Vining, Roy H.: *See—*
Armstrong, William S., Jr.; Edwards, Webster H.; Laird, Joseph P.; and Vining, Roy H., 3,690,771.
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Vinogradov, Gleb Andreevich; Katrus, Oleg Alexandrovich; and Otrok, Anatoly Ilich. Apparatus for manufacturing rolled products from powdery materials. 3,689,209, 9-5-72, Cl. 425-79.000.
Vinokur, David. Vehicle anti-theft device utilizing cigarette lighter as timer. 3,641,492, 2-8-72, Cl. 340-65.
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Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.
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Vinsani, Mario; and Carnevale, Angelo, to Honeywell Information Systems Italia S.p.A. Method and apparatus for generating diagnostic information. 3,649,910, 3-14-72, Cl. 324-73.
Vinsani, Mario; and Trinca, Celio, to Honeywell Information Systems Italia S.p.A. Circuit for signalling the operation of a circuit protecting device. 3,662,369, 5-9-72, Cl. 340-250.
Vinson, Billy H., to Integrated Controls, Inc. Method and apparatus for photographing oscilloscope traces with conventional camera. 3,696,720, 10-10-72, Cl. 95-10.00c.
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Vinson, Leonard J.; and Masurat, Thomas, to Lever Brothers Company. Lipid-protein membrane and process. 3,655,416, 4-11-72, Cl. 106-155.
Vinson, Leonard J.; and Masurat, Thomas, to Lever Brothers Company. Extraction of lipid and cellular fractions from the stratum corneum of animal skin. 3,660,566, 5-2-72, Cl. 424-95.
Vinson, Paul, to Vinson Industries, Inc. Shuttle press. 3,673,901, 7-4-72, Cl. 83-14.000.
Vinson, Paul, to Vinson Industries, Inc. Toolholder. 3,698,232, 10-17-72, Cl. 72-482.000.
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Viola, Leonard J.; and Gans, Eugene H., to Richardson-Merrell Inc. Compacted regenerated cellulose sponges and method of preparing the same. 3,634,183, 1-11-72, Cl. 161-159.
Viola, Marino Roberto, to Laboratorio Chimico Farmaceutico E. Granelli S.p.A. Method of preparing injectable liver extracts. 3,642,983, 2-15-72, Cl. 424-106.
Viola, Ronald J.; and Keeney, Lawrence V., to Rapid Electric Co., Inc. Reciprocating frustro-conical plug switch contact and assembly. 3,703,621, 11-21-72, Cl. 200-163.000.
Violette, Glenn M.; Paquin, Leon J.; and Lock, James A., to International Paper Company. Method of making a liminate having varying thickness. 3,700,525, 10-24-72, Cl. 156-244.000.
Violleau, Andre; and Coffy, Rene Louis, to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Method and apparatus for impregnating fabrics, more particularly glass cloths, with plastics. 3,653,174, 4-4-72, Cl. 53-21.
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Kise, Mearl A.; and Ellis, Leonard C., 3,647,876.
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Virgo, James Russell, to British Steel Piling Company Limited, The. Drilling rigs. 3,674,098, 7-4-72, Cl. 173-149.000.
Virloget, Jean Marcel, to Societe Francaise d'Instruments de Controls et d'Analyses. Device for spectographic analysis of a liquid metal. 3,669,546, 6-13-72, Cl. 356-86.
Virnelson, Robert Craig, to Buckeye Ribbon & Carbon Company. Resinous microporous transfer structure. 3,682,848, 8-8-72, Cl. 260-2.50m.
Virnig, Herbert J., to Mass Feeding Corporation. Food tray having a laminated closure that is heat-retractable. 3,672,916, 6-27-72, Cl. 99-171.00h.
Virnoche, Paul R.: *See—*
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Virsberg, Lars-Goran, to Allmanna Svenska Elektriska Aktiebolaget. Method of manufacturing a coil. 3,702,499, 11-14-72, Cl. 29-605.000.
Virtanen, Rauno Erkki; and Kivalo, Pekka. Method for establishing the zones occuring in electrophoresis and for their quantitative determination. 3,649,499, 3-14-72, Cl. 204-180.
Virtis Company, Inc., The: *See—*
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Virtue, Julian A. Baby stroller. 3,653,681, 4-4-72, Cl. 280-36.
Virva, John, to Admiral Corporation. Multiple speaker enclosure with single tuning. 3,687,220, 8-29-72, Cl. 181-31.00b.
Vis, Jan H.; and Loder, Wallace R., Jr., to Standard Oil Company, The. Motor fuel containing diimine additives. 3,685,976, 8-22-72, Cl. 44-69.000.
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Vischiani, Giuseppe, to Sobrevin Soc. de Brevets Industriels, Firma. Delivery device for threads on weaving machines, knitting machines, or the like. 3,670,976, 6-20-72, Cl. 242-47.120.
Vischulis, George; and Sedlak, Charles K., to Zerand Corporation. Electropneumatic transducer and pneumatic web tensioning system. 3,635,240, 1-18-72, Cl. 137-495.
Vischulis, George; and Sedlak, Charles K., to Zerand Corporation. Universal web splicer. 3,647,600, 3-7-72, Cl. 156-504.
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Visschedijk, Gerhardus Bernardus. Magnetic core storage matrices. 3,696,345, 10-3-72, Cl. 340-174.0ma.
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Masselink, Annegien; Bakker, Martinus Antonius Maria; and Visser, Bauke, 3,707,358.
Visser, Jan, to Amsted Industries Incorporated. Ultrasonic test standard. 3,677,061, 7-18-72, Cl. 73-1.00r.
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Visser, Jeronimo, to Upjohn Company, The. Preparation of lincomycin analogues. 3,674,647, 7-4-72, Cl. 195-80.00r.
Visser, Jeronimo, to Upjohn Company, The. Lincomycin production. 3,676,302, 7-11-72, Cl. 195-80.00r.
Visser, Peter J., to Clark Equipment Company. Power device with synchronization of plural actuators. 3,691,911, 9-19-72, Cl. 91-412.000.
Visser, Pieter; and Ter Haar, Leonard W., to Shell Oil Company. Process for the removal of solid particles from aqueous suspensions. 3,694,355, 9-26-72, Cl. 210-21.000.
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Vissers, Donald R.; Holmes, John T.; Nelson, Paul A.; and Bartholme, Louis G., to United States of America, Atomic Energy Commission. Method and apparatus for determining hydrogen concentration in liquid sodium utilizing an ion pump to ionize the hydrogen.3,683,272, 8-8-72, Cl. 324-33.000.
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Vissers, Herbert, to Vissers, H., N.V. Apparatus for attaching projecting members in a hollow support of an agricultural implement. 3,657,785, 4-25-72, Cl. 29-200.
Vissers, Herbert, to Landbouwwerktuigen-en Machinefabriek H. Vissers N.V. Machine for digging soil. 3,672,453, 6-27-72, Cl. 172-39.000.
Vissers, Herbert, to Landbouwwerktuigen-en Machinefabriek H. Vissers N.V. Machine for digging soil. 3,705,629, 12-12-72, Cl. 178-94.000.
Vissers, Herbert, to Landbouwwerktuigen-en Machinefabriek H. Vissers N.V. Agricultural implement for clod breaking. 3,705,630, 12-12-72, Cl. 172-763.000.
Vissers, Herbert, to Vissers, H., N.V. Movement absorbing lower links hitch frame pivotally connected about an upwardly forwardly inclined axis to a reciprocating harrow. 3,706,346, 12-19-72, Cl. 172-102.000.
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Vit, Jaroslav; Casensky, Bohuslav; Mamula, Milan; and Machacek, Jiri, to Ceskoslovenska akademie ved. Organically substituted sodium aluminum hydrides and method of making and using the same. 3,652,622, 3-28-72, Cl. 260-448.
Vit, Jaroslov, to National Patent Development Corporation. Preparation of aldehydes from esters. 3,660,416, 5-2-72, Cl. 260-297.00r.
Vita Mayer & C. Gia F. LLI Vita S.A.S.: *See—*
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Vitale, Eupremio, to Alfa Farmaceutici S.p.A. Nicotinic acid ester. 3,637,717, 1-25-72, Cl. 260-295.5.
Vitale, Joseph Michael, to Avnet, Inc. Ignition cable. 3,680,027, 7-25-72, Cl. 338-214.00.
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Vitalo, Alfred Emanuel, to Bell Telephone Laboratories, Incorporated. Automatic personal signaling system. 3,668,317, 6-6-72, Cl. 179-18.0bf.
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Vitcha, Edward T.; Hooker, Leslie A.; and Lauder, Richard P., to TRW Inc. Method of making forged valves from cast slugs. 3,636,605, 1-25-72, Cl. 29-156.7.
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Vitek, Edmund J.; and Yeates, Robert A., to Westinghouse Electric Corporation. Electron beam magnetometer sensor. 3,673,494, 6-27-72, Cl. 324-41.000.
Vitenko, Andrew H. Smoke cleaning apparatus. 3,665,681, 5-30-72, Cl. 55-260.000.
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Vitkovec, Zdenek: *See—*
Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
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Vitou, Constantine K. Automobile headlight cleaning system. 3,659,307, 5-2-72, Cl. 15-250.01.
Vitovsky, Jan, to Vyzkumny ustav Stavlnich. Measuring specific surface of powders. 3,643,493, 2-22-72, Cl. 73-38.
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Vits, Hilmar, to Maschinenfabrik VITS G.m.b.H. Process and apparatus for handling workpieces which have a large surface area relative to their thickness. 3,633,281, 1-11-72, Cl. 34-1.
Vits, Hilmar, to Vits Maschinenbau GmbH. Apparatus for a noncontacting stabilization of a web which is moved in its longitudinal direction. 3,678,599, 7-25-72, Cl. 34-156.000.
Vits, Hilmar, to Maschinenbau VITS G.m.b.H. Apparatus for a noncontacting directional control of a web. 3,680,223, 8-1-72, Cl. 34-156.000.
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Vitter, Albert L., Jr.; and McDonald, Hugh G., to Chevron Research Company. Method of determining downhole occurrences in well drilling using rotary torque oscillation measurements. 3,703,096, 11-21-72, Cl. 73-151.000.
Vittert, Murray B. Tackle block. 3,662,992, 5-16-72, Cl. 254-192.
Vittone, William J. Antiphlogistic. 3,644,620, 2-22-72, Cl. 424-195.
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Vivian, Thomas A., to Dow Chemical Company, The. Composition containing chlorinated hydrocarbons, ketones and glycol ethers for reflowing organic surfaces. 3,663,255, 5-16-72, Cl. 106-285.
Vivian, Thomas A., to Dow Chemical Company, The. Stabilized methylene chloride for high temperature applications. 3,670,036, 6-13-72, Cl. 260-652.50r.
Vivian, Thomas A., to Dow Chemical Company, The. Reducing the residue caused by the vaporization of chlorinated solvent to dryness. 3,682,834, 8-8-72, Cl. 252-364.000.
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Vizza, Joseph. Pollution control for smokestacks. 3,641,742, 2-15-72, Cl. 55-222.
Vizza, Joseph. Anti-pollution carburetor attachment. 3,641,769, 2-15-72, Cl. 60-30.
Vizza, Joseph. Brake operated transmission shifter. 3,667,579, 6-6-72, Cl. 192-4.00a.
Vizzini, Thomas A.; and Grat, Felix R., to Radiation Machinery Corporation. Flow-through irradiator for the extra corporeal irradiation of fluid. 3,683,183, 8-8-72, Cl. 250-44.000.
Vkrainsky Nauchno Issledovatelsky Institut Selskoklrozyaistvennojo Mashvnostroerik Rospekt Gagarina: *See—*
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Vlach, John J.; Baker, James B.; Burnham, Edward H.; Lavander, Edward J.; and Schluntz, Gary L., to Xerox Corporation. Multiple output electrostatic recording system. 3,649,114, 3-14-72, Cl. 355-3.
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Vlad, John J. Water vehicle. 3,638,598, 2-1-72, Cl. 114-16.
Vladimir, Svaty, to Elitex, Zavody textilniho strojirenstvi generalni reditelstvi. Pneumatic weft delivery means for shuttleless looms. 3,693,668, 9-26-72, Cl. 139-127.00p.
Vlaeminck, Noel, to Automatic Electric Laboratories, Inc. Signal transmission system with a variable level clipping circuit. 3,660,681, 5-2-72, Cl. 307-237.000.
Vlahos, Petro, to System Development Corporation. Extended range sonar system. 3,683,325, 8-8-72, Cl. 340-3.00r.
Vlasin, Ronald J. Over-running clutch driving tool. 3,688,610, 9-5-72, Cl. 81-59.100.
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Vlasov, Viktor Griogroievich; Berezentsev, Jury Sergeevich; Mukhin, Vladimir Vanovich; and Kravchenko, Zhorzh Yakovlevich, to Novosibirsky Institut Inzhenerov Vodnogo Transporta. Apparatus for automatically controlling the movement of a dredger along a preetermined path for performing a dredging operation at a navigable area of a waterway. 3,699,572, 10-17-72, Cl. 343-7.0ed.
Vlismas, Theodore, to Midland Silicones Limited. Preparation of crosslinked organopolysiloxanes in a suspension medium. 3,639,498, 2-1-72, Cl. 260-825.
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Vogel, Marcel J., to International Business Machines Corporation. Method of manufacture of a magnetic disk and recording surface. 3,639,188, 2-1-72, Cl. 156-231.

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Vogel, Ralph A.; and Moss, Harold S., to Essex International, Inc. Method and apparatus for siphoning molter metal to a continuous casting machine. 3,670,799, 6-20-72, Cl. 164-63.000.
Vogel, Ralph A., to Essex International, Inc. Structure for the continuous casting of metal bars. 3,682,234, 8-8-72, Cl. 164-278.000.
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Vogl, Otto F., to Du Pont de Nemours, E. I., and Company. Single-phase composites of chloral polymers and copolymers with addition polymers. 3,707,524, 12-26-72, Cl. 260-41.00b.
Vogl, Willibald; Kinzler, Johann; and Goessl, Gottfried, to Siemens Aktiengesellschaft. Device for eliminating interference between conductors of high frequency signals. 3,681,612, 8-1-72, Cl. 307-105.000.
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Voigt, Gottfried, to Braun Aktiengesellschaft. Spherical, layer-shaped self-adjusting bearing for shafts. 3,680,931, 8-1-72, Cl. 308-72.000.
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Von Grabe, Walther, to Zimmerman, A. M., & Co. Panchromatic raster plate for electrophotographic use. 3,692,521, 9-19-72, Cl. 96-1.500.
von Grabe, Walther, to Kabushiki Kaisha Ricoh. Electronographic copying machine. 3,699,920, 10-24-72, Cl. 118-637.
Von Gronow, Rudiger Elsner, to Krauss-Maffei Aktiengesellschaft. Centrifuge construction. 3,638,854, 2-1-72, Cl. 233-4.
Von Haumeder, Walter. Method of refining molten metal. 3,684,488, 8-15-72, Cl. 75-52.000.
Von Hippel, Eric A., to Graphic Sciences, Inc. Paper feed mechanism. 3,640,482, 2-8-72, Cl. 242-67.1.
Von Hippel, Eric A., to Graphic Sciences, Inc. Electro-sensitive printing resin control system. 3,697,691, 10-10-72, Cl. 178-94.000.
Von Hippel, Hans-Joachim. Longwall mining apparatus. 3,640,574, 2-8-72, Cl. 299-32.
Von Hippel, Hans-Joachim. Method and apparatus for supporting the roofs in underground excavations. 3,672,174, 6-27-72, Cl. 61-45.000.
Von Hofe, George W., to New Jersey Machine Corporation. Continuous strip of label web. 3,697,300, 10-10-72, Cl. 117-15.000.
Von Holdt, John W. Release apparatus for die casting assembly. 3,642,417, 2-15-72, Cl. 425-443.
Von Holdt, John W. Heated feeder system for die casting apparatus. 3,642,418, 2-15-72, Cl. 425-447.
Von Hollen, Dieter; and Holder, Heinz, to Mannesmann Aktiengesellschaft. Method for manufacturing welded pipes tubes with helical seam. 3,697,718, 10-10-72, Cl. 219-62.000.
Von Hollen, John. Hand drill and drill press. 3,640,635, 2-8-72, Cl. 408-101.
Von Hornstein, Wolf Freiherr; Richt, Hubert O.; and Liebl, Albert. Tape tension control means with sensing levers, particularly for magnetic sound recorders. 3,695,549, 10-3-72, Cl. 242-189.000.
Von Kaenel, Fred: *See—*
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Liebe, Werner; Petersen, Siegfried; and von Konig, Anita, 3,671,242.
Scheibitz, Maria; Von Konig, Anita; Kampfer, Helmut; Mayer, Dietmar; Sasse, Klaus; Kolb, Gunter; Honig, Hans Ludwig; and Meiser, Werner, 3,690,884.
von Konig, Anita; Moll, Franz; Muller-Bardorff, Wolfgang; and Saleck, Wilhelm, to Agfa-Gevaert Aktiengesellschaft. Silver halide emulsions containing bis-heterocyclic n-containing compounds as antifoggants. 3,640,719, 2-8-72, Cl. 96-109.
von Konig, Anita; and Timmler, Helmut, to Agfa-Gevaert Aktiengesellschaft. Antibronzing agents for photographic silver images. 3,647,451, 3-7-72, Cl. 96-52.
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von Konig, Anita; Kabbe, Hans-Joachim; Mader, Helmut; Otto, Rigobert; and Reuss, Helmut, to Agfa-Gevaert Aktiengesellschaft. Silver halide emulsion containing a mercapto pyrimidine derivative antifoggant. 3,692,527, 9-19-72, Cl. 96-109.000.
Von Konorring, Enar Sixten. Floating body. 3,694,837, 10-3-72, Cl. 9-311.000.
Von Krusenstierna, Otto, to Allmanna Svenska Elektriska Aktiebolaget. Fuel cell device utilizing air as oxidant. 3,634,140, 1-11-72, Cl. 136-86.
Von Krusenstierna, Otto, to Allmanna Svenska Elektriska Aktiebolaget. Method of supplying a propulsion device with fuel. 3,683,622, 8-15-72, Cl. 60-207.000.
Von Kulmer, Ulrich, to Maschinenfabrik Kleindienst & Co. Apparatus for washing vehicles. 3,705,435, 12-12-72, Cl. 15-21.00r.
Von Kutepow, Nikolaus; Magin, August; and Joschek, Hans-Ingo, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Catalytic oxidation of alkyl-substituted hydroquinones to the corresponding p-benzoquinones. 3,663,578, 5-16-72, Cl. 260-396.
Von Lersner, Wolf A., to Campbell Soup Company. Mixing and dispensing unit. 3,664,555, 5-23-72, Cl. 222-145.
Von Linsowe, Carl V., 25% to Page, John T. Compensator for temperature-caused length change. 3,631,884, 1-4-72, Cl. 137-344.
Von Linsowe, Carl V., 25% to Page, John T. Articulated frame for mobile ground-traveling instrumentality. 3,701,358, 10-31-72, Cl. 137-344.000.
Von Marinelli, Silvio M.N.K.W.F.; Vree, Jules Herman; and Verboom, Joannes B., to U.S. Philips Corporation. Extensometer. 3,696,512, 10-10-72, Cl. 33-147.00d.
von Meyer, William C.: *See—*
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McNulty, Patrick J.; Swithenbank, Colin; Viste, Kenneth L.; and Von Meyer, William C., 3,661,991.
Seidel, Michael C.; Von Meyer, William C.; and Greenfield, Stanley A., 3,701,784.
Von Meyer, William C., to Rohm & Haas Company. Safening agents for dinitrophenols and their derivatives. 3,659,017, 4-25-72, Cl. 424-326.
Von Minden, Wolfgang: *See—*
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Von Moltke, Evert: *See—*
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Von Obstfelder, Heinz-Jurgen. Fluid stream sensing device. 3,693,441, 9-26-72, Cl. 73-208.000.
Von Ohlsen, Louis H., Jr.: *See—*
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Von Otto, Robert E., 1/2 to Nichols, Henry E. Surgical appliance. 3,692,024, 9-19-72, Cl. 128-132.000.
von Platen, Baltzar Carl: *See—*
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Von Platen, Baltzar Carl; Jonsson, Finn Lennart; and Trolle, Sten, to Etablissement Radiator. Stands for presses. 3,687,066, 8-29-72, Cl. 100-214.000.
Von Rauch, Moriz, to Siemens Aktiengesellschaft. Apparatus having evacuation spaces and a pumping assembly. 3,668,393, 6-6-72, Cl. 250-49.50a.
Von Recklinghausen, Daniel R., to Scott, H. H., Inc. Stereophonic demodulator apparatus and automatic monophonic-stereophonic switching circuit. 3,662,113, 5-9-72, Cl. 179-15.
Von Recklinghausen, Daniel R., to Scott, H. H., Inc. Apparatus for amplifier protection. 3,668,545, 6-6-72, Cl. 330-207.00p.
von Riegen, Johannes: *See—*
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Neumann, Wolfram; Muller, Gerhard; Ranz, Erwin; Von Rintelen, Harald; and Schutz, Heinz-Dieter, 3,671,252.
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Von Roepenack, Adolf; Wuethrich, Hans; and Schmidt, Wilhelm, to Det Norske Zinkkompani A/S. Process for the recovery of zinc from zinc-and iron-containing materials. 3,691,038, 9-12-72, Cl. 204-119.000.
Von Roll AG: *See—*
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Winter, Ernst Jakob; and Stelzmuller, Franz, 3,689,186.
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Von Rotel, Julius, to Reineveld N.V. Filter belt centrifuge. 3,661,266, 5-9-72, Cl. 210-370.
Von Ruden, Raymond E., to General Equipment Co. Attachemnt for driving posts and the like adapted to be affixed to vehicles. 3,658,139, 4-25-72, Cl. 173-124.000.
Von Rudgisch, Edgar. Moulding apparatus. 3,642,398, 2-15-72, Cl. 18-16.
Von Rudgisch, Edgar. Upholstered seating furniture. 3,669,495, 6-13-72, Cl. 297-445.000.

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Hageman, Howard A.; Gevirtz, Arthur H.; and Von Schmeling, Bogislav, 3,632,646.
Von Schmeling, Bogislav; and Boos, Walter R., to Uniroyal, Inc. and Uniroyal, Ltd. 4,4'-Bis(alpha-amino substituted) diphenyl ethers as antimicrobial agents. 3,663,712, 5-16-72, Cl. 424-330.
Von Schriltz, Don Morris, to Du Pont de Nemours, E. I., and Company. Process for the preparation of triarylboranes. 3,651,146, 3-21-72, Cl. 260-606.5.
Von Starck, Axel: *See—*
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von Starck Axel, to AEG-Elotherm G.m.b.H. Process for dosing of liquid metals especially from melting or heat preserving containers by means of an electromagnetic conveying trough. 3,632,229, 1-4-72, Cl. 417-50.
Von Starck, Axel, to AEG-Elotherm G.m.b.H. Electromagnetic pump or conveyor trough. 3,645,646, 2-29-72, Cl. 417-50.
Von Starck, Axel, to AEG-Elotherm G.m.b.H. Apparatus for producing continuously cast sections with agitation of the liquid core. 3,656,537, 4-18-72, Cl. 164-251.
von Starck, Axel, to AEG-Elotherm G.m.b.H. Conveyor trough. 3,684,402, 8-15-72, Cl. 417-50.000.
Von Stein, Gene B.; and Young, Norman R., to Unarco Industries, Inc. Shopping cart. 3,645,554, 2-29-72, Cl. 280-33.99.
Von Strandtmann, Maximilian; and Klutchko, Sylvester, to Warner-Lambert Company. β-Amidosulfoxides. 3,646,138, 2-29-72, Cl. 260-558.
Von Strandtmann, Maximilian; Cohen, Marvin P.; and Shavel, John, Jr., to Warner-Lambert Company. Fused ring systems containing [1,3] oxazine. 3,649,626, 3-14-72, Cl. 260-244.
Von Strandtmann, Maximilian; Cohen, Marvin P.; and Shavel, John, Jr., to Warner-Lambert Company. Spiropyranopyridines. 3,649,635, 3-14-72, Cl. 260-287.
Von Strandtmann, Maximilian; Klutchko, Sylvester; and Shavel, John, Jr., to Warner-Lambert Company. 3-Methylsulfinyl and 3-methylsulfonyl-4-chromanones. 3,699,128, 10-17-72, Cl. 260-345.200.
Von Strandtmann, Maximilian; Klutchko, Sylvester; and Shavel, John, Jr., to Warner-Lambert Company. 3-(Methylthio) chromone and S-oxide derivatives. 3,699,129, 10-17-72, Cl. 260-345.200.
Von Strandtmann, Maximillian; Puchalski, Chester; Cohen, Marvin; and Shavel, John, Jr., to Warner-Lambert Company. Substituted acrylic acids and process for their production. 3,642,781, 2-15-72, Cl. 260-240.
Von Struve, Georg; and Cappel, Fred, to Metallgesellschaft Aktiengesellschaft. Method of producing sponge-iron pellets from hematitic alumina-containing iron ore. 3,682,621, 8-8-72, Cl. 75-3.000.
Von Sybel, Reinhard; Englesmann, Dieter; and Fauth, Gunter, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with double exposure preventing means. 3,646,862, 3-7-72, Cl. 95-31.
Von Tobel, Hans, to Sandoz Ltd. Copper phthalocyaninesulphonic acids. 3,668,218, 6-6-72, Cl. 260-314.500.
Von Tobel, Hans, to Sandoz Ltd. Phthaloc-anine compounds. 3,674,783, 7-4-72, Cl. 260-242.000.
von Tobel, Hans, to Sandoz Ltd. Phthalocyanines. 3,679,675, 7-25-72, Cl. 260-242.000.
Von Vick, George, to Bunker-Ramo Corporation, The. Trimmer potentiometer with resistive overlay. 3,693,062, 9-19-72, Cl. 338-92.000.
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Von Weoel, Ernst; and Rodefeld, Siegfried, to Heing Schurmann & Co. Railing. 3,689,032, 9-5-72, Cl. 256-22.000.
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von Willisen, Friedrich K., to Aktiengesellschaft Brown, Boveri & Cie. Method and apparatus for telemetering by means utilizing modulated light beams. 3,666,956, 5-30-72, Cl. 250-199.
Von Winckelmann, Emil H.: *See—*
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Voorhis, Harold W.; and Post, Bradford, to Continental Can Company, Inc. Locks for egg carton covers. 3,672,560, 6-27-72, Cl. 229-44.000.
Voorman, Henry, Jr., to Wagner Electric Corporation. Information recorder. 3,673,608, 6-27-72, Cl. 346-18.000.
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Vorderbruegge, Hermann; and Mehrmann, Ludwig, to Heberlein & Co., AG. Apparatus for the treatment of webs or yarns. 3,685,324, 8-22-72, Cl. 68-150.000.
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Vorgan, Harry. Multistereophonic speaker switching device. 3,662,107, 5-9-72, Cl. 179-1.
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Voronoff, George N., to Textron, Inc. Frequency independent IcR antenna. 3,641,579, 2-8-72, Cl. 343-792.5.

Voros, Anton, Jr. Electromagnetic reciprocating motor. 3,670,188, 6-13-72, Cl. 310-17.000.

Voroshazy, Lajos; Thuranszky, Karoly; and Kekes-Szabo, Andras, to Egyt Gyogyszervegyeszeti Gyar. Pharmaceutical compositions of anti-ulcerous activity. 3,662,074, 5-9-72, Cl. 424-265.

Vorreither, Hans-Klaus; Obendorf, Werner; Menzl, Kurt; and Hofer, Harald, to Osterreichische Stickstoffwerke Aktiengesellschaft. Process for the preparation of 3-amino-4-bromo-1,2, 5-thiadizole. 3,642,811, 2-15-72, Cl. 260-306.8.

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Vosahlova, Eva A.; and Weir, Donald Robert, to Gordon, Sherritt Mines Limited. Method for leaching reduced laterite ores. 3,644,114, 2-22-72, Cl. 75-101.

Vosbikian, James T.: *See*—
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Vosbikian, Manuel. Bag support. 3,633,859, 1-11-72, Cl. 248-97.

Vosbikian, Peter S., Jr. Mop holder. 3,681,810, 8-8-72, Cl. 15-150.000.

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Vose, Robert W. Counterbalance and lift system for mowing units. 3,641,748, 2-15-72, Cl. 56-15.7.

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Vosper, Ralph R., to Coen Company, Inc. Duct burner for operation with liquid or gaseous fuels. 3,682,451, 8-8-72, Cl. 263-19.00a.

Voss, Eitel: *See*—
Koch, Walter; Lemm, Helmut; Voss, Eitel; and Hospital, Peter, 3,694,157.

Voss, Gary Dwight: *See*—
Davis, Delbert A.; Averette, Samuel R.; and Voss, Gary Dwight, 3,642,563.

Voss, Harold C.: *See*—
Bixler, William L.; and Voss, Harold C., 3,696,511.

Voss, Josef. Aquarium frame. 3,633,790, 1-11-72, Cl. 220-82.

Voss, Joseph A., to Kimberly-Clark Corporation. Applicator tubes for suppositories and the like. 3,667,465, 6-6-72, Cl. 128-271.

Voss, Joseph A.; and Johnson, Carl W., to Kimberly-Clark Corporation. Method for shaping tube ends. 3,683,759, 8-15-72, Cl. 93-94.0fc.

Voss, Joseph A., to Kimberly-Clark Corporation. Catamenial devices and methods of making the same. 3,683,915, 8-15-72, Cl. 128-285.000.

Voss, Joseph A.; and Johnson, Carl W., said Voss assor. to Kimberly-Clark Corporation. Reinforced hygienic medium applicator tubes and methods for fabricating same. 3,695,970, 10-3-72, Cl. 156-272.000.

Voss, Raymond G., to Phillips Petroleum Company. Apparatus for carving a material sheet. 3,635,625, 1-18-72, Cl. 425-135.

Voss, Raymond G.; and Ramsay, Ray D., to Phillips Petroleum Company. Apparatus for forming a non-woven web. 3,647,597, 3-7-72, Cl. 156-377.

Voss, Raymond G. Angle gage mechanism. 3,672,065, 6-27-72, Cl. 33-185.00r.

Voss, Raymond G., to Phillips Petroleum Company. Cutter and cutting method. 3,684,140, 8-15-72, Cl. 225-2.000.

Voss, Richard F.; and Winter, Phillip M., to Minnesota Mining and Manufacturing Company. Peening device for tube finishing. 3,648,498, 3-14-72, Cl. 72-53.

Voss, Siegfried: *See*—
Renz, Eberhard; Voss, Siegfried; and Ecke, Gunter, 3,668,725.

Voss, Siegfried, to Aktiengesellschaft "Weser". Rotary connector for connecting the ends of multiple conduits. 3,648,311, 3-14-72, Cl. 9-8.

Vosseler, Gerhard, to Bernheim, Erwin. Resonators for driving timepiece gear trains. 3,668,442, 6-6-72, Cl. 310-8.200.

Vossen, John Louis, Jr., to RCA Corporation. Method of metalizing semiconductor devices. 3,640,811, 2-8-72, Cl. 204-192.

Vossen, John Louis, Jr.; and Banfield, Joseph Henry, to RCA Corporation. Method of making electrical contacts on the surface of a semiconductor device. 3,640,812, 2-8-72, Cl. 204-192.

Vossen, John Louis, Jr., to RCA Corporation. Method of radio frequency sputter etching. 3,692,655, 9-19-72, Cl. 204-192.000.

Vossos, Peter H.: *See*—
Kovarik, James F.; and Vossos, Peter H., 3,660,301.
Pluta, Linda J.; and Vossos, Peter H., 3,699,049.

Vossos, Peter H., to Nalco Chemical Company. Stabilizing aqueous deionized silica sols of small particle size against celling. 3,644,213, 2-22-72, Cl. 252-313.

Vossos, Peter H., to Nalco Chemical Company. Paper frictionizing. 3,649,348, 3-14-72, Cl. 117-152.

Vossos, Peter H., to Nalco Chemical Company. Method of treating textiles. 3,652,329, 3-28-72, Cl. 117-139.5.

Vosteen, Robert E. Anti-jamming circuit for multi-frequency signal detector. 3,673,343, 6-27-72, Cl. 179-84.0vf.

Voth, James W., to Allis-Chalmers Manufacturing Company. Chain adjuster or elevating scraper. 3,699,820, 10-24-72, Cl. 74-242.14r.

Voulat, Maurice: *See*—
Charamel, Pierre; Jaillet, Jean; Pelenc, Yves; and Voulat, Maurice, 3,657,495.

Vouthier, Marcel, to Carpano & Pons. Device for releasably attaching ski boots to skis. 3,649,037, 3-14-72, Cl. 280-11.35.

Vowles, Colin: *See*—
Groves, Sydney L.; Kuchta, Frank J.; Lewis, J. Stephen; Maurer, Donald J.; May, Richard L.; Ryan, John W.; and Vowles, Colin, 3,670,451.

Vowles, J. Harding. Chair. 3,669,493, 6-13-72, Cl. 297-429.000.

Voytko, Joseph, to Westvaco Corporation. Dispensing/filling container. 3,658,233, 4-25-72, Cl. 229-23.000.

Vozenilek, Theodore M., 40% to Reynolds, Spencer E. Rotary switch with improved spiral contact structure. 3,647,994, 3-7-72, Cl. 200-4.

Voznick, Henry P.: *See*—
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Vrabeli, Edward A.; and Cuzzone, Raymond, to General Electric Company. Fuse having vibration damping means for protecting the fuse link thereof. 3,699,491, 10-17-72, Cl. 337-246.000.

Vrana, Charles K.; and Lawton, Jacqulyn G. Apparatus for harnessing the vertical movement of ocean tides and utilize the force for generating electrical energy. 3,668,412, 6-6-72, Cl. 290-53.000.

Vrana, George, to Riegel Paper Corporation. Display card. 3,658,175, 4-25-72, Cl. 206-945.14.

Vrancken, August; and Van Eygen, Cyrille. Process for polymerizing acrylonitrile. 3,686,112, 8-22-72, Cl. 260-32.60n.

Vrancken, Marcel Nicolas; and Claeys, Daniel Alois, to Gevaert-Agfa N.V. Method of recording and reproducing information. 3,642,475, 2-15-72, Cl. 96-35.

Vrancken, Marcel Nicolas, to Gevaert-Agfa N.V. Photographic process and materials used therein. 3,642,480, 2-15-72, Cl. 96-48.

Vrancken, Marcel Nicolas; and Claeys, Daniel Alois, to Gevaert-Agfa N.V. Preparation plate with silver halide emulsion comprising hydrophobic thermoplastic polymer particles. 3,649,271, 3-14-72, Cl. 96-33.

Vrancken, Marcel Nicolas; Meeussen, Louis Achilles; and Claeys, Daniel Alois, to Gevaert-Agfa N.V. Method for recording and

reproducing graphic information on processed photographic material. 3,661,579, 5-9-72, Cl. 96-36.

Vrancken, Marcel Nicolas; Vanreusel, Gerard Laurens; Van Pee, Paul Desire; and De Laet, Jules Maria, to Agfa-Gevaert N.V. Method for the preparation of a planographic printing master. 3,672,892, 6-27-72, Cl. 96-33.000.

Vrancken, Marcel Nicolas; Brinckman, Eric Maria; and Heugebaert, Frans Clement, to Agfa-Gevaert. Reproduction method. 3,674,483, 7-4-72, Cl. 96-33.000.

Vrancken, Marcel Nicolas; and Claeys, Daniel Alois, to Agfa-Gevaert. Heat-sensitive recording material. 3,679,410, 7-25-72, Cl. 96-27.000.

V.R.B. Associates Inc.: *See—*
Vassilevsky, Anatole N.; and Renke, Adolf (said Vassilevsky, Irene, assor. to), 3,667,978.

Vrbaski, Theodor; Vitchus, Bernard C.; and Koncos, Robert, to Sinclair Oil Corporation. Production of phenyl-maleic-anhydride by catalytic vapor phase oxidation of biphenyl or sec-butyl benzene. 3,704,251, 11-28-72, Cl. 260-346.800.

Vredenburgh, Walter A.; and Hollis, Samuel D., to Pennsylvania Industrial Chemical Corporation. Alkylphenol-aldehyde resins. 3,674,723, 7-4-72, Cl. 260-3.000.

Vredevoe, Lawrence A.: *See—*
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Vredevoogd, Jon D. Furniture unit constituted of sections held together by a tension cable. 3,632,179, 1-4-72, Cl. 312-108.

Vree, Jules Herman: *See—*
Von Marinelli, Silvio M.N.K.W.F.; Vree, Jules Herman; and Verboom, Joannes B., 3,696,512.

Vriend, Joseph A. Isolator valve for pneumatic brake systems. 3,677,611, 7-18-72, Cl. 303-84.00a.

Vrijma, Berend, to Calsilox S.A. Apparatus for cutting a block of plastic material. 3,664,219, 5-23-72, Cl. 25-112.

Vrijma, Berend, to Calsilox S.A. Apparatus for cutting a block of plastic material. 3,695,129, 10-3-72, Cl. 83-5.000.

Vrobel, Eliahu, to Bell & Howell Company. Replaceable electrical connector. 3,649,956, 3-14-72, Cl. 339-103.

Vroege, Aart Kornelis, to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Method for operating a regenerative gas heater, and a gas heater for use in this method. 3,642,262, 2-15-72, Cl. 263-19.

Vroman Foods, Inc.: *See—*
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Vrugt, Johannes Wilhelmus Ter: *See—*
Wanmaker, Willem Lambertus; Vrugt, Johannes Wilhelmus Ter; and De Bres, Johannes Guiljelmus Cornelis Maria, 3,647,708.

Vryland, George W. Ground effect machine. 3,656,575, 4-18-72, Cl. 180-120.

Vsesojuzny Nauchno-Issledovatelsky: *See—*
Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolievich, 3,670,549.
Tselikov, Alexandr Ivanovich; Nosal Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolievich, 3,673,840.
Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolievich, 3,680,345.

Vsesojuzny Nauchno-Issledovatelsky i proektny institut Aljuminievoi magnievoi i elektrodnoi promyshlennos: *See—*
Ivanovichetrov, Vasily; Svetlichny, Boris Nikolaevich; Demidov, Jury Alexeevich; Elin, Nikolai Mikhailovich; Cherepanov, Vladimir Petrovich; Samuilov, Ivan Nikolaevich; and Cheprasov, Ivan Matveevich, 3,684,264.
Nififorov, Vladimir Pavlovich; Zaitsev, Vasily Nikolaevich; Khomyakov, Viktor Stepanovich; Kil, Ilia Genrikhovich; and Tsybukov, Igor Kirillovich, 3,702,815.

Vsesojuzny Nauchno-Issledovatelsky i Proektny Institut po Ochistke Tekhnologicheskikh Gazov i Stochnykh Vod i Ispolzovanizu Vtorichnykh Energoresursov Predprinyaty Chernoi Metallurgii: *See—*
Andoniev, Sergei Mikhailovich; Alexandrov, Nikolai Nikitovich; Klochnev, Nikolai Ivanovich; Kulikov, Vasily Ivanovich; and Filipiev, Oleg Vladimitrovich, 3,690,633.
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Vsesojuzny Nauchno-Issledovatelsky i Proektny Institut po Ochistke Teknologicheskikh gazov i stochuykh vod i isopolzovaniju Vtorichnykh Energo-resursov Predpriyaty Chernoi Metallurgii: *See—*
Andoniev, Sergei Mikhailovich; Kutsykovich, Dorina Borisovna; Gerber, Leonid Moiseevich; Kudinov, Gennady Alexandrovich; Kasyanov, Grigory Ivanovich; Nissenbaum, Tamara Izovna; Raikovsky, Jury Bortsovich; Somchenko, Mikhail Semenovich; and Filipiev, Oleg Vadimirovich, 3,692,103.
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Vsesojuzny Nauchno-Issledovatelsky Institut Gorno-Spasatelnogo Dela: *See—*
Artemenko, Anatoly Ivanovich; Geshtenkern, Rafail Yakovlevich; and Yagupov, Igor Nikolaevich, 3,683,902.

Vsesojuzny Nauchno-Issledovatelsky institut Legkogo i textilnogo Mashinostroenia: *See—*
Korikovsky, Petr Konstantinovich; Kulichkov, Jury Semenovich; and Petukhov, Evgeny Dmitrievich, 3,681,909.
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Vsesojuzny Nauchno-Issledovatelsky Institut liteinogo maschinostroenia liteinoi tekhnologii i Avtomati: *See—*
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Vsesojuzny Nauchno-Issledovatelsky Institut po Stroitelstvu Magistralnykh Truboprovodov Okruzhnoi praezd: *See—*
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Vsesojuzny Niftegazovy Nauchno-Issledovatelsky Institut: *See—*
Geshelin, Boris Mikhailovich; Maximov, Mikhail Mikhailovich; Rozenberg, Maxim Davidovich; and Yakovleva, Nadezhda Evgenievna, 3,686,491.

Vsesojuzny Proektno-Konstruktorsky Institut Svarochnogo Proizvodstva: *See—*
Beletsky, Naum Iosifovich; and Chepovetsky, Mikhail Lvovich, 3,686,912.
Topopolsky, Yankel Meerovich; and Shikhman, Mark Aronovich, 3,703,114.

Vshivkov, Boris Alexandrovich: *See—*
Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.

VSI Corporation: *See—*
Trembley, William H., 3,698,278.

Vuaille, Andre; and Pigeroulet, Jean, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Device for regulating the fuel flow of internal combustion engines. 3,658,040, 4-25-72, Cl. 123-140.

Vuaille, Andre, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Fuel regulating devices for internal combustion engines. 3,695,244, 10-3-72, Cl. 123-140.0vs.

Vuaille, Andre, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Regulating devices for the flow of fuel in internal combustion engines. 3,698,369, 10-17-72, Cl. 123-140.00r.

Vuaroqueaux, Jean-Claude, to Toseco International Limited. Refractory dressing method. 3,674,518, 7-4-72, Cl. 106-38.270.

Vuchner, Bernard: *See—*
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Vuffray, Georges C., to Girard-Perregaux S.A. Electric motor for watches. 3,652,884, 3-28-72, Cl. 310-156.

Vuillemeier, Ralph O.; and Bagnatori, Giulio B., to Container Corporation of America. Mechanism for erecting carton sleeves. 3,682,052, 8-8-72, Cl. 93-53.00r.

Vuillemenot, Jacques, to Ugine Kuhlmann. Stabilization of 1,1,1, trichloroethane with oxazole. 3,676,355, 7-11-72, Cl. 252-153.000.

Vuillot, Michel: *See—*
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Vujasinovic, Ado: *See—*
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Vujasinovic, Ado N., to Rucker Company, The, mesne. Blowout preventer. 3,667,721, 6-6-72, Cl. 251-1.000.

Vukasovic, Lovro; and Hofmann, Rudolf, to Siemens Aktiengesellschaft. Circuit arrangement for automatic control of the voltage of an electrical filter. 3,643,405, 2-22-72, Cl. 55-105.

Vukich, Franklin J., to Lockley Manufacturing Co., Inc. Leveling device. 3,684,233, 8-15-72, Cl. 248-352.000.

Vukosic, Robert S., to Eastman Kodak Company. Strip material handling mechanism for sound systems. 3,678,209, 7-18-72, Cl. 179-100.10a.

Vulcan Corporation: *See—*
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Bursack, Kenneth F.; and Johnston, Earnest L., 3,658,658.
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Christena, Ray C.; and Johnston, Earnest L., 3,676,424.
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Vulmiere, Huguette Nelly: *See—*
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Vulmiere, Jacques Claude; and Vulmiere, Huguette Nelly, to Etablissement Public: Agence Nationale de Valorisation de la Recherche (Anvar). Contact endoscope with stray light trap. 3,675,984, 7-11-72, Cl. 350-96.00r.
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Vykukal, Hubert C., to United States of America, National Aeronautics and Space Administration. Space suit having improved waist and torso movement. 3,636,564, 1-25-72, Cl. 2-2.1.
Vyncke, Johan, to Dart Industries, Inc. Multiple acting cutter with adjustable features. 3,636,806, 1-25-72, Cl. 83-355.
Vyskumny ustav mechanizacie a automatizacie: *See—*
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Waaben, Sigurd Gunther, to Bell Telephone Laboratories, Incorporated. Arrangements for reducing noise in tandem matrix circuits. 3,651,468, 3-21-72, Cl. 340-166.
Waaben, Sigurd Gunther; and Weiss, Walter Ira, to Bell Telephone Laboratories, Incorporated. Control circuitry and voltage source for use with charge storage diode. 3,701,119, 10-24-72, Cl. 340-173.00r.
Waage, Bard M., to Investrop AG., mesne. Laminated container of thermoplastic and non-thermoplastic materials with nipples. 3,642,047, 2-15-72, Cl. 150-8.
Waage, Bard Meyer, to Habia Kommanditbolag. Method of applying a lubricating and friction-reducing layer on the inner surface of a tubular body of metallic material. 3,639,960, 2-8-72, Cl. 29-149.5.
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Wache, Xavier. Processes for the production of iron-nickel alloys having a high nickel content. 3,647,426, 3-7-72, Cl. 75-129.
Wachenheim, Howard W., to Citizens and Southern National Bank, The. Liquid spring. 3,682,461, 8-8-72, Cl. 267-31.000.
Wacher, Paul, to GTE Laboratories Incorporated. Phosphor display screen and filter including platinum and manganese chloride derivatives of tetraphenylporphin. 3,638,060, 1-25-72, Cl. 313-112.
Wacher, Paul, to General Telephone & Electronics Laboratories, Incorporated. Optical filters containing tetraphenylporphins and method of making same. 3,687,863, 8-29-72, Cl. 252-300.000.
Wacher, Paul, to General Telephone & Electronics Laboratories, Incorporated. Solid state light source with optical filter containing metal derivatives of tetraphenylporphin. 3,696,263, 10-3-72, Cl. 313-108.00d.
Wachs, Marvin Richard, to Communications Satellite Corporation. Phase distortionless limited. 3,691,466, 9-12-72, Cl. 325-347.000.
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Wagner, Arthur F.; Wittreich, Paul E.; and Sarett, Lewis H., to Merck & Co., Inc. 2-Imidazolylbicyclo[22.2.2]octanes. 3,666,755, 5-30-72, Cl. 260-240.00f.

Wagner Brothers Containers, Inc.: *See—*
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Wagner, Charles A.; and Wagner, Herman B. Rate controlled photochromic lenses of vinyl chloride-vinyl acetate copolymer containing a mercury thiocarbazone compound. 3,666,352, 5-30-72, Cl. 350-160.000.

Wagner, Charles J.: *See—*
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Wagner, Charles J., Jr.: *See—*
Berry, Robert E.; Bissett, Owen W.; Wagner, Charles J., Jr.; and Patterson, Eldridge P., 3,672,909.

Wagner, Claude Julien Rene; deceased (by Wagner, Paulette Marie Josephine; administratix), to Sidel. Screw for an extruding device and a device including said screw. 3,689,189, 9-5-72, Cl. 425-376.000.

Wagner, Daniel G., to Westinghouse Air Brake Company. Automatic drain valve device. 3,703,188, 11-21-72, Cl. 137-204.000.

Wagner, David P., to Illinois Tool Works Inc. Fastener unit. 3,687,184, 8-29-72, Cl. 151-37.000.

Wagner, David P., to Illinois Tool Works Inc. Composite screw. 3,693,495, 9-26-72, Cl. 85-9.00r.

Wagner, Donald E., to Caterpillar Tractor Company. Self-adjusting belt tightener. 3,631,734, 1-4-72, Cl. 74-242.11.

Wagner, Douglas A., to General Motors Corporation. Propeller coupling. 3,679,033, 7-25-72, Cl. 192-48.700.

Wagner, Douglas A., to General Motors Corporation. Fluid actuator with lock and cushion. 3,699,850, 10-24-72, Cl. 92-24.000.

Wagner, Edward E.: *See—*
Pasquine, Arthur R.; Snow, Harland J.; and Wagner, Edward E., 3,701,353.

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Wagner, Franklin J.: *See—*
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Wagner, Franklin J., to Westvaco Corporation. Corrugated paper board container having sealed fluted closure flaps. 3,635,451, 1-18-72, Cl. 229-37.

Wagner, Gary L.: *See—*
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Wagner, Gary L., to Crown Zellerbach Corporation. Paperboard panel substitute for lumber. 3,648,959, 3-14-72, Cl. 248-346.

Wagner, George, to Hooker Chemical Corporation. Process for textile treatment and treated textile. 3,695,924, 10-3-72, Cl. 117-76.00t.

Wagner, George J., to United States Steel Corporation. Apparatus for receiving and storing a flexible starter bar. 3,692,094, 9-19-72, Cl. 164-274.000.

Wagner, George M., to Hooker Chemical Corporation. Process for treating wool. 3,650,806, 3-21-72, Cl. 117-62.2.

Wagner, George M.; and Vullo, William J., to Hooker Chemical Corporation. Polyisocyanate composition and process for treating cellulosic materials therewith to render them water repellant. 3,672,818, 6-27-72, Cl. 8-116.200.

Wagner, George M., to Hooker Chemical Corporation. Process for shrinkproofing wool and resultant product. 3,702,776, 11-14-72, Cl. 117-62.200.

Wagner, Gerhard; Kroll, Friedrich; Gleich, Horst; and Kessler, Georg, to Klockner-Humboldt-Deuty Aktiengesellschaft. Amphibious vehicle. 3,661,114, 5-9-72, Cl. 115-1.

Wagner, Gerhard; Kroll, Friedrich; Gleich, Horst; and Kessler, Georg, to Klockner-Humboldt-Deutz Aktiengesellschaft. Amphibious bridge vehicle. 3,682,126, 8-8-72, Cl. 115-1.00b.

Wagner, Harold H., to Caterpillar Tractor Company. Engine start and shutdown system. 3,659,113, 4-25-72, Cl. 307-9.

Wagner, Harold H., to Caterpillar Tractor Company. Control system for adding and removing alternators from a system. 3,703,663, 11-21-72, Cl. 317-13.00r.

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Wagner, Jack F.; and Veenhuizen, Edward L., to Lilly, Eli, and Company. Method of improving the conception rate in cows. 3,636,193, 1-18-72, Cl. 424-100.
Wagner, Jacob C. Concrete finishing apparatus. 3,698,293, 10-17-72, Cl. 94-50.00v.
Wagner, Jacob C. Ice-breaking system for ships. 3,698,340, 10-17-72, Cl. 114-40.000.
Wagner, Jacob C. Ice-breaking hammer attachment for ships. 3,698,341, 10-17-72, Cl. 114-40.000.
Wagner, James B., to General Electric Company. Viscous pump for unitized bearing lubrication system. 3,635,578, 1-18-72, Cl. 415-90.
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Wagner, John B., to Webster Electric Company, Inc. Hydraulic puller apparatus for attaching a coupling to a hose. 3,662,451, 5-16-72, Cl. 29-237.000.
Wagner, John L., to Union Carbide Corporation. Control system for selective adsorption process. 3,703,068, 11-21-72, Cl. 55-21.000.
Wagner, John T., to Westinghouse Electric Corporation. Rotor blade coupler arrangement. 3,649,133, 3-14-72, Cl. 416-190.
Wagner, John W., to Atlantic Richfield Company. Suppression of isopentane formation in ethyl chloride synthesis. 3,634,527, 1-11-72, Cl. 260-663.
Wagner, John W., to Xerox Corporation. Sheet feed apparatus. 3,655,183, 4-11-72, Cl. 271-62.
Wagner, Josef. Transmission for diaphragm pump. 3,657,933, 4-25-72, Cl. 74-55.
Wagner, Josef. Spray gun. 3,680,789, 8-1-72, Cl. 239-332.000.
Wagner, Josef. Pump and method of driving same. 3,680,981, 8-1-72, Cl. 417-388.000.
Wagner, Joseph R., to United States of America, Agriculture. Method of comminuting legumes. 3,642,494, 2-15-72, Cl. 99-98.
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Wagner, Karl; and Ganser, Josef, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with built-in exposure control. 3,636,841, 1-25-72, Cl. 95-10.
Wagner, Karl; and Wesp, Horst, to Steyr-Daimler-Puch Aktiengesellschaft. Rifle stock with a detachable spare magazine contained therein. 3,638,344, 2-1-72, Cl. 42-71.
Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with automatic exposure control. 3,638,542, 2-1-72, Cl. 95-10.
Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus. 3,645,183, 2-29-72, Cl. 95-31.
Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with automatic exposure control. 3,665,824, 5-30-72, Cl. 95-10.0ct.
Wagner, Karl; and Ganser, Josef, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with built-in electrical moving-coil measuring instrument. 3,672,270, 6-27-72, Cl. 95-11.00l.
Wagner, Karl; and Nicolay, Klaus, to Agfa-Gevaert Aktiengesellschaft. Automatic exposure control for photographic apparatus. 3,672,271, 6-27-72, Cl. 95-10.0ct.
Wagner, Karl; and Durr, Helmut, to Agfa-Gevaert Aktiengesellschaft. Device for adjustment of shutters and diaphragms in photographic apparatus. 3,672,286, 6-27-72, Cl. 95-64.00c.
Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Arrangement for providing a series of illuminations. 3,692,995, 9-19-72, Cl. 240-1.300.
Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Automatic distance warning circuits for cameras to be used with photoflash units. 3,696,721, 10-10-72, Cl. 95-11.00r.
Wagner, Karl; and Von Fischern, Bernard, to Agfa-Gevaert Aktiengesellschaft. Combined battery test and light meter for a photographic camera. 3,699,857, 10-24-72, Cl. 95-10.0ce.
Wagner, Karl; Nicolay, Klaus; Schuchardt, Gerhard; and Putscher, Johann, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with detachable source of artificial light. 3,705,539, 12-12-72, Cl. 95-11.50r.
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Roos, Ernst; and Wagner, Klaus, 3,663,575.
Wagner, Klaus; and Roos, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Substituted 3-aminobenzothiophenes. 3,659,004, 4-25-72, Cl. 260-330.5.
Wagner, Klaus; and Roos, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Substituted 4-aminoquinazolines and a process for their production. 3,689,489, 9-5-72, Cl. 260-256.40q.
Wagner, Klaus; and Roos, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Certain substituted benzthiazole-N-oxides and their preparation. 3,691,186, 9-12-72, Cl. 260-304.000.
Wagner, Kuno: *See—*
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Wagner, Kuno; and Mennicken, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Biuret diisocyanates. 3,647,848, 3-7-72, Cl. 260-453.
Wagner, Kuno; and Von Bonin, Wulf, to Farbenfabriken Bayer Aktiengesellschaft. Isocyanate-containing telomers and a process for the production thereof. 3,654,106, 4-4-72, Cl. 204-159.23.
Wagner, Maria-Theresia, geb. Eibes: *See—*
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Wagner, Melvin P.: *See—*
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Wagner, Milton H. Mobile irrigation sprinkler process and apparatuses therefor. 3,640,462, 2-8-72, Cl. 239-11.
Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, to Farbenfabriken Bayer Aktiengesellschaft. Process for the separation of pyrogens from crude preparations of L-asparaginase. 3,634,196, 1-11-72, Cl. 195-6.
Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfreid; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, to Farbenfabriken Bayer Aktiengesellschaft. Process for the stabilization and purification of L-asparaginase. 3,650,902, 3-21-72, Cl. 195-66.
Wagner, Ovner R., Jr.; Smith, Lowell R.; and Osborn, Jack L., to Amoco Production Company. Forming a barrier between zones in waterflooding. 3,656,550, 4-18-72, Cl. 166-270.
Wagner, Paul; Dickinson, James M.; and Smith, Morton C., to United States of America, Atomic Energy Commission. Polycrystalline graphite with controlled electrical conductivity. 3,644,221, 2-22-72, Cl. 252-503.
Wagner, Paul D.; and Keuper, John J. Claw-tooth rotor dynamoelectric machine. 3,663,846, 5-16-72, Cl. 310-164.
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Wagner, Robert E., to Union Oil Company of California. Two-phase hydrocarbon conversion system. 3,663,431, 5-16-72, Cl. 208-143.
Wagner, Robert J. Method for recovery of petroleum deposits. 3,653,438, 4-4-72, Cl. 166-266.
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Wagner, Robert L.; and Ragland, Evan L., II, to American Regitel Corporation. Double helical printer. 3,669,237, 6-13-72, Cl. 197-49.000.
Wagner, Robert W.; and Mc Laughlin, John, to Singer Company, The. Sabre saws with angularly adjustable swivel saw bars. 3,665,983, 5-30-72, Cl. 143-68.00f.
Wagner, Ross I.: *See—*
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Wagner, Tomes B., to General Electric Company. Combined bearing lubrication hydrogen seal system for generator. 3,688,872, 9-5-72, Cl. 184-6.280.
Wagner, Walter. Side delivery tape applicator. 3,677,865, 7-18-72, Cl. 156-577.000.
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Wagner, William. Lock alarm device. 3,659,549, 5-2-72, Cl. 116-8.000.
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Wagner, William E., to PPG Industries, Inc. Multiple glazed unit and method of manufacture. 3,694,299, 9-26-72, Cl. 161-45.000.
Wagner, William S. Adjustable roll drive. 3,657,940, 4-25-72, Cl. 74-397.
Wagner, William S. Apparatus for forming roller bearing cages. 3,699,793, 10-24-72, Cl. 72-134.000.
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Wagner, William Sherwood; and Roberts, John Drew, to Celanese Corporation. Method for producing fibrous structures. 3,634,573, 1-11-72, Cl. 264-176.
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Wagoner, Robert B.; and Kinghorn, John S., to Aerojet-General Corporation, mesne. Method of removing liquid from a sunken floating roof of a liquid storage tank. 3,701,458, 10-31-72, Cl. 137-1.000.
Wagstaff, Frank E.; Wagstaff, William G.; and May, Paul H., to Wagstaff Machine Works, Inc. Continuous casting mould. 3,665,999, 5-30-72, Cl. 164-283.000.
Wagstaff, Frank E.; Wagstaff, William G.; and May, Paul H. Semi-continuous vertical casting mould for ingots. 3,688,834, 9-5-72, Cl. 164-283.000.
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Wagstoff, Robert A. Hydraulic cylinder mount for a forage harvester. 3,635,127, 1-18-72, Cl. 92-161.
Wahba, Issac J.; Padrnos, Daniel F.; and Ma, Shao-Mu, to General Mills, Inc. Angel food cake mixes and their production. 3,653,917, 4-4-72, Cl. 99-94.
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Wahl, Hans Heinz; Guminski, Alfons; and Lohmann, Gunther, to Luitpoldhutte Aktiengesellschaft. Apparatus for centrifugal casting of tubular objects. 3,651,859, 3-28-72, Cl. 164-291.
Wahl, Hermann, to Siemens Aktiengesellschaft. Gas laser having a capillary tube with a contracted portion that serves as a mode selector. 3,686,584, 8-22-72, Cl. 331-94.500.
Wahl, James A.; and Nieminski, Robert A., to Eaton Yale & Towne, Inc. Industrial vehicle. 3,640,415, 2-8-72, Cl. 214-672.
Wahl, John S.: *See—*
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Wahlberg, Eric C. Surface projectile game apparatus. 3,653,665, 4-4-72, Cl. 273-125.
Wahlberg, Eric C. Speed reducer and positioning device. 3,686,608, 8-22-72, Cl. 338-162.000.
Wahlberg, Eric C. Business transaction apparatus. 3,705,384, 12-5-72, Cl. 340-149.00a.
Wahle, Gunter; and Kasparek, Alois, to Hauni-Werke Korber & Co. KG. Apparatus for feeding rod shaped articles to consuming machines. 3,672,522, 6-27-72, Cl. 214-302.000.
Wahle, Gunter, to Hauni-Werke Korber & Co., KG. Apparatus for supplying rod-shaped articles to consuming machines. 3,687,316, 8-29-72, Cl. 214-302.000.
Wahlefeld, August Wilhelm: *See—*
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Wahlen, Werner; and Blumber, Hans, to Kapafar Business Trust Reg. Apparatus for cutting slots or grooves in punch support plates or the like. 3,673,920, 7-4-72, Cl. 90-58.00b.
Wahler, John J. Sound reflector-modifier for hearing aid microphones. 3,632,902, 1-4-72, Cl. 179-107.
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Wahli, Robert, to Ciba Limited. Method and apparatus for evaluating color-coded information. 3,663,801, 5-16-72, Cl. 235-61.11.
Wahli, Robert, to Ciba-Geigy AG. Photoelectric scanning apparatus for detecting code markings. 3,673,417, 6-27-72, Cl. 250-219.00d.
Wahlig, Helmut: *See—*
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Wahlin, Lars E., to Colutron Corporation. Separated ion beam source with adjustable separation. 3,649,862, 3-14-72, Cl. 313-63.
Wahlmark, Gunnar A., to Wahlmark Systems, Inc. Piston ring construction. 3,632,121, 1-4-72, Cl. 277-188.
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Wahlster, Manfred; and Choudbury, Alok, to Rheinstahl Huttenwerke A.G. Process and apparatus for providing steel ingot. 3,677,323, 7-18-72, Cl. 164-52.000.
Wahlstrom, P. Borje; and Adamson, J. Eric, to Johnson, A., & Co., Inc. Apparatus for transferring a web from the forming section to the press section in a papermaking machine. 3,671,389, 6-20-72, Cl. 162-306.000.
Wahlstrom, Sven, to Shell Oil Company. Read-write circuit for capacitive memory arrays. 3,678,473, 7-18-72, Cl. 340-173.0ca.
Wahlstrom, Sven E., to Shell Oil Company. Single-rail MOSFET memory with capacitive storage. 3,699,537, 10-17-72, Cl. 340-173.00r.
Wahnschaff, Paul, to Norcross Engineering Company. Die cutting apparatus. 3,688,622, 9-5-72, Cl. 83-88.000.
Wahnschaffe, Klaus-Dieter. Electromagnetic relay. 3,702,981, 11-14-72, Cl. 335-133.000.
Wahrenberger, Hans Jorg, to Maschinenfabrik Burckhardt AG. High-pressure compressors and pumps. 3,657,973, 4-25-72, Cl. 92-166.
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Waibel, Helmut K., to Singer Company, The. Powder dispensing unit. 3,700,142, 10-24-72, Cl. 222-109.000.
Waid, J. M., to Shell Oil Company. Resin consolidated sandpack. 3,696,867, 10-10-72, Cl. 166-276.000.
Waidelich, Jack P., to Rohr Corporation. Vapor cycle propulsion system. 3,646,760, 3-7-72, Cl. 60-204.
Waidtlow, Robert M.: *See—*
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Wain-Roy Company, Inc.: *See—*
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Wainer, Eugene, to Horizons Incorporated. Recovery of silver, polyester and aminoacids from processed film. 3,647,422, 3-7-72, Cl. 75-101.
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Wainer, Eugene, to Horizons Incorporated. Aqueous composition for depositing phosphors. 3,706,673, 12-19-72, Cl. 252-501.000.
Wainio, Allan C., to Honeywell Inc. Reel mount. 3,690,581, 9-12-72, Cl. 242-68.300.
Wainwright, Albert V., Jr. Ski-renovating tool. 3,643,328, 2-22-72, Cl. 30-172.
Waisanen, Oliver T. Wedge lock fastener for cutting tools. 3,634,918, 1-18-72, Cl. 29-105.
Wait, John D., Jr., to Caterpillar Tractor Company. Heating and air-conditioning system for construction equipment. 3,670,808, 6-20-72, Cl. 165-42.000.
Waite, Amory H., Jr.: *See—*
Golay, Marcel J. E.; and Waite, Amory H., Jr., 3,698,339.
Waite, Fred L. Packing machine for baked goods. 3,645,064, 2-29-72, Cl. 53-55.
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Wallace, Richard A.: *See—*
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Wallace, Richard M. Bolt anchor assembly. 3,700,020, 10-24-72, Cl. 151-41.700.
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Wallace, Robert P., to Mite Corporation. Apparatus for utilizing hot and cool gas for thrust embedding a metal insert in a body of heat softenable material. 3,640,655, 2-8-72, Cl. 18-1.
Wallace, Robert S. Tape cassette sleeve. 3,664,492, 5-23-72, Cl. 206-1.
Wallace, Samuel P. Pleat computing and forming apparatus. 3,633,800, 1-11-72, Cl. 223-28.
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Wallace, William A. Well bore seal apparatus for closed fluid circulation assembly. 3,638,742, 2-1-72, Cl. 175-325.
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Walle, Leonard A., to Du Pont de Nemours, E. I., and Company. Thermosetting acrylic enamel containing minor amounts of cellulose acetate butyrate. 3,671,293, 6-20-72, Cl. 117-74.000.
Wallen, Bengt, to Allmanna Svenska Elektriska Aktiebolaget. Means for electrolytically depositing metal on an object or for anodic oxidation of an object. 3,696,017, 10-3-72, Cl. 204-195.00r.
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Waller, David P.: *See—*
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Waller, Henry A., to Consolidated Controls Corporation. Latching assembly with magnetic locking. 3,635,511, 1-18-72, Cl. 292-251.5.
Waller, Henry A., to Consolidated Controls Corporation. Valve with differential clutching valve actuator. 3,704,853, 12-5-72, Cl. 251-59.000.
Waller, John G.: *See—*
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Walles, Wilhelm E.; and Davies, James J., to Dow Chemical Company, The. Method of deagglomerating polymer particles. 3,634,385, 1-11-72, Cl. 260-94.9.
Walles, Wilhelm E., to Dow Chemical Company, The. Polymeric complexes of saccharin and cyclohexanesulfamic acid. 3,642,704, 2-15-72, Cl. 260-77.5.
Walles, Wilhelm E.; Caiola, Robert J.; and Donald, Harold J., to Dow Chemical Company, The. Sulfonated plastic duplicating masters. 3,685,446, 8-22-72, Cl. 101-453.000.
Walles, Wilhelm E., to Dow Chemical Company, The. All-plastic electric capacitor. 3,689,810, 9-5-72, Cl. 317-25.00p.
Walles, Wilhelm E.; McIntire, Otis R.; Rieke, James K.; and Griggs, Max V., to Dow Chemical Company, The. Internally treated plastic food containers. 3,705,041, 12-5-72, Cl. 99-171.0lp.
Walley, Gerald D., to British Aircraft Corporation Limited. Trolley for recoverable spacecraft. 3,672,606, 6-27-72, Cl. 244-1.0ss.
Wallgard, Gunnar Alexius, to SAAB Aktiebolag. Vehicle track block signal apparatus. 3,638,014, 1-25-72, Cl. 246-91.
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Wallington, Frederick L., to Owens-Illinois, Inc. Base sealer. 3,695,980, 10-3-72, Cl. 156-583.000.
Wallis, Bernard J. Press unloader. 3,653,293, 4-4-72, Cl. 83-82.
Wallis, Bernard J. Transfer device. 3,661,247, 5-9-72, Cl. 198-218.
Wallis, Bernard J. De-stacking device for sheet metal blanks. 3,669,445, 6-13-72, Cl. 271-26.000.
Wallis, Craig; and Melnick, Joseph L., to Monsanto Company. Method for the immunization of a living animal body against viral disease. 3,651,213, 3-21-72, Cl. 424-89.
Wallis, George; Dorsey, John J.; and Phillips, Bernard L., to Mallory, P. R., & Co., Inc. Hermetic seal. 3,646,405, 2-29-72, Cl. 317-230.

Wallis, George C., to Ford Motor Company. Non-reversible odometer. 3,636,320, 1-18-72, Cl. 235-95.
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Wallmannsberger, Georg. Detachable gripping means for monocable aerial tramways. 3,685,457, 8-22-72, Cl. 104-205.000.
Wallmark, John Torkel, to Institutet for Halvledarforskning AB. Voltage responsive capacitance device and a method of producing such a device. 3,638,078, 1-25-72, Cl. 317-234.
Wallo, Kenneth George: *See—*
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Wallouch, Rudolph W., to Air Reduction Company, Incorporated. Method of inhibiting puffing in the manufacture of graphite articles from sulfur-containing petroleum coke. 3,642,962, 2-15-72, Cl. 264-29.
Wallouch, Rudolph W., to Airco, Inc. Process and composition for the manufacture of oxidation resistant graphite articles. 3,706,596, 12-19-72, Cl. 117-169.00a.
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Walls, Henry M.; Sayers, George M.; and Walls, Noel B., to Thermo-Sentinel Corporation. Waterless cooking apparatus. 3,701,344, 10-31-72, Cl. 126-388.000.
Walls, Noel B.: *See—*
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Walls, Patrick Joseph. Internal combustion engine or compressor. 3,694,109, 9-26-72, Cl. 417-261.000.
Wallshein, Melvin. Orthodontic systems. 3,683,502, 8-15-72, Cl. 32-14.00a.
Wallshein, Melvin. Orthodontic system for turning a tooth. 3,691,635, 9-19-72, Cl. 32-42.000.
Wallskog, Alan G., to Edelmann, E., & Co. Hydrometer. 3,691,847, 9-19-72, Cl. 73-441.000.
Wallskog, Alan G., to Teletype Corporation. Type carrier assembly. 3,696,204, 10-3-72, Cl. 178-27.000.
Wallsten, Hans I., to AB Inventing. Method and means for drying moist material, such as paper, cellulose, other fibres of the like. 3,659,347, 5-2-72, Cl. 34-9.
Wally, Harry W. Tape playback adapter for playing through a radio receiver. 3,632,901, 1-4-72, Cl. 179-100.11.
Wally, Joseph H., Jr., to Western Blue Print Co. Photo reproduction apparatus. 3,639,054, 2-1-72, Cl. 355-18.
Wally, Joseph H., Jr., to Western Blue Print Co. Camera-projector with vacuum film platen. 3,645,621, 2-29-72, Cl. 355-76.
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Walmsley, David Arthur Gregson; and Sampson, Roy John, to Imperial Chemical Industries Limited. Production of non-conjugated dienes having 4,7, 8,9-tetrahydroindene structures from a hydrocarbon mixture containing cyclopentadiene and another C_5 conjugated diene and production of vulcanizable copolymers therefrom by polymerization with α-olefins. 3,661,871, 5-9-72, Cl. 260-80.78.
Walmsley, Judith A., to Owens-Illinois, Inc. Metal-containing polymers of organic dithiolic acid and methods of making the same. 3,642,721, 2-15-72, Cl. 260-78.4.
Walon, Raoul Guillaume Philippe, to CPC International Inc. Preparation of starch derivatives containing both carboxyl and carbonyl groups. 3,634,395, 1-11-72, Cl. 260-233.3.
Walon, Raoul Guillaume Philippe, to CPC International Inc., mesne. Production of resins from reducing sugars. 3,660,377, 5-2-72, Cl. 260-211.
Walon, Raoul Guillaume Phillipe, to CPC International Inc., mesne. Soft candy containing confectionery syrup. 3,692,542, 9-19-72, Cl. 99-134.00r.
Walon, Raoul Guillaume Phillippe, to CPC International Inc. and Les Industries du Mais, S.A. Method of producing granular dextrose. 3,650,829, 3-21-72, Cl. 127-60.
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Walsh, Alan, to Commonwealth Scientific and Industrial Research Organization. Atomic absorption spectroscopy. 3,644,045, 2-22-72, Cl. 356-85.
Walsh, David F., to Melland Gear and Instrument Co., Inc. Planetary conversion counter. 3,635,395, 1-18-72, Cl. 235-1.
Walsh, David I., to Indev, Inc. Flocking. 3,678,894, 7-25-72, Cl. 118-624.000.
Walsh, David P.; and Walsh, Joanne M. Trailer chassis. 3,703,244, 11-21-72, Cl. 214-517.000.
Walsh, Donald K. Electrical connector. 3,636,501, 1-18-72, Cl. 339-118.
Walsh, Edward G., to Bell Telephone Laboratories, Incorporated. Fluidically controlled antiskid vehicle brake system. 3,704,045, 11-28-72, Cl. 303-21.00f.
Walsh, Edward George, to Bell Telephone Laboratories, Incorporated. Reed switch with improved contact and end cap structure. 3,633,136, 1-4-72, Cl. 335-151.
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Walsh, George M.; and Chramiec, Mark A., to Raytheon Company. Waveform regenerator for use with a digital correlator. 3,665,413, 5-23-72, Cl. 340-172.5.
Walsh, George M., to Raytheon Company. Sea bottom slope measuring apparatus. 3,681,747, 8-1-72, Cl. 340-3.00r.
Walsh, Henry, Jr., to General Electric Company. Electrical coil assembly. 3,668,588, 6-6-72, Cl. 336-192.000.
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Walsh, John H.; Whalley, Basil J. P.; and Botham, John C., to Canadian Patents and Development Limited. Upgrading coking coals and coke production. 3,637,464, 1-25-72, Cl. 201-6.
Walsh, John T.: *See—*
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Walsh, Richard E., to Sudstrand Corporation. Turbine wheel containment device. 3,652,176, 3-28-72, Cl. 415-9.
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Walsh, Robert R.; and Apostolico, Martin A., to Technidyne, Inc. Laser beam systems and apparatus for detecting and measuring parametric deviations between surfaces and the like. 3,659,949, 5-2-72, Cl. 356-156.
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Walss, Walter Kourt; deceased (by Walss, Margaret; executrix). Toy with a rotating gameboard. 3,685,831, 8-22-72, Cl. 273-142.0jb.

Walstad, Dennis C.; and Knope, Walter R., to Furnas Electric Company. Adjustable solid state overload relay. 3,683,237, 8-8-72, Cl. 317-13.00r.

Walter, Allan F., to Burroughs Corporation. Flexible circuit aligning fixture. 3,662,456, 5-16-72, Cl. 29-203.

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Walter, Dieter; Fries, Walter; and Gotte, Ernst, to Henkel & Cie G.m.b.H. Protein solubilizing washing rinsing and soaking compositions. 3,673,096, 6-27-72, Cl. 252-89.000.

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Walter, Earl Richard; and Koleske, Joseph Victor, to Union Carbide Corporation. Crystalline polymer alloys comprising a polymer from a cyclic ester and an alkene polymer. 3,632,687, 1-4-72, Cl. 260-896.

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Walter, George, to Nalco Manufacturing Company, Inc. Terminal straightening method and machine. 3,700,011, 10-24-72, Cl. 140-147.000.

Walter, H Paul, to United States of America, Commerce, Economic Development Administration, mesne. Process for producing a chip-type food product. 3,684,527, 8-15-72, Cl. 99-111.000.

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Walter, John L.; Cline, Harvey E.; and Cobine, James D., to General Electric Company. Vacuum switch contacts. 3,655,368, 4-11-72, Cl. 75-170.

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Walter, Kenneth E., to Kennecott Copper Corporation. Apparatus utilizing an air core transformer for determining magnetic material content of a substance. 3,686,563, 8-22-72, Cl. 324-13.000.

Walter, Lewis A., to Schering Corporation. Certain 1-[dilower-alkyl amino-lower-alkyl]-2-phenyl indolizenes and quaternary salts thereof. 3,642,807, 2-15-72, Cl. 260-296.

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Walter, Vincent J. Running lights and differential parking systems for vehicles. 3,704,446, 11-28-72, Cl. 340-74.000.

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Walters, Anthony George, to Salopian Industries Metals Limited. Egg collecting apparatus. 3,672,485, 6-27-72, Cl. 198-26.000.

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Walters, Harold A.: *See—*
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Walters, Harold C., to Phillips Petroleum Company. Metal petroleum sulfonate recovery. 3,666,795, 5-30-72, Cl. 260-504.

Walters, James C. Bale stacking apparatus. 3,647,091, 3-7-72, Cl. 214-6.

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Walters, John, to American Science & Engineering Inc. Tape suspended balance. 3,688,855, 9-5-72, Cl. 177-196.000.

Walters, John P.; and Bruhns, Thomas V., to Wisconsin Alumni Research Foundation. Current-injection spark source for emission spectroscopy. 3,653,766, 4-4-72, Cl. 356-86.

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Walters, Klemens C. Segmented grinding wheel assembly. 3,683,566, 8-15-72, Cl. 51-356.000.

Walters, Leslie K.; and Fuelberth, Walter K., to General Motors Corporation. Automatic clutch-wear compensator. 3,648,813, 3-14-72, Cl. 192-111.

Walters, Max. Combined ring display device and carrier. 3,645,403, 2-29-72, Cl. 211-13.

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Walters, Russell W.; and Brattland, Richard M., to Keystone Consolidated Industries, Inc. Pin tumbler lock and key structure. 3,648,492, 3-14-72, Cl. 70-363.

Walters, Samuel. Camera and binocular chest support frame. 3,661,308, 5-9-72, Cl. 224-5.

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Walters, William D. Buoyancy adjustment back pack. 3,670,509, 6-20-72, Cl. 61-69.000.
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Walters, William T., to AMF Incorporated. Ultrasonic flaw detection circuit. 3,646,805, 3-7-72, Cl. 73-67.9.
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Walther, Eric G., to Environment-One Corporation. CO measuring method and device. 3,640,688, 2-8-72, Cl. 23-232.
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Walther, Hans J.; and Liepelt, Klaus J., to B.A.T. Cigarattenfabriken GmbH. Methods and apparatus for the selection of foreign bodies of smaller dimensions, from a main mass. 3,685,650, 8-22-72, Cl. 209-74.000.
Walther, Helmut. Ski boot. 3,636,642, 1-25-72, Cl. 36-2.5.
Walther, Ludwig; Esser, Matthias; and Zilken, Helmut, to Zimmermann & Jansen GmbH, Firma. Gate valve including fluid operated locking device. 3,695,578, 10-3-72, Cl. 251-94.000.
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Walton, James F. Apparatus for collecting waste from the surface of a body of water. 3,656,624, 4-18-72, Cl. 210-242.
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Walup, William B., to Cambridge Thermionic Corporation. Minimal insertion force connector. 3,683,317, 8-8-72, Cl. 339-75.0mp.
Walus, Aloysius N., to Du Pont de Nemours, E. I., and Company. Coating compositions of aziridinyl alkyl acrylate or methacrylate acrylic graft copolymers. 3,651,005, 3-21-72, Cl. 260-31.2.
Walus, Aloysius N., to Du Pont de Nemours, E. I., and Company. Coating compositions of acrylic-epoxy ester graft copolymers utilizing aziridinyl alkyl acrylate or methacrylate in the copolymer. 3,676,385, 7-11-72, Cl. 260-32.80r.
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Watanabe, Katsumi. Toy phonograph. 3,667,765, 6-6-72, Cl. 274-14.

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Watanabe, Shunso F., to Kelsey-Hayes Company. Valve structure. 3,645,499, 2-29-72, Cl. 251-303.
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Watanabe, Tamotsu, to Nippon Kogei Kogyo Co., Ltd. Apparatus for generating a high voltage. 3,653,593, 4-4-72, Cl. 239-15.
Watanabe, Tamotsu. Method and apparatus for impregnating moving paper with moisture. 3,656,455, 4-18-72, Cl. 118-630.
Watanabe, Tamotsu; and Onoue, Fumio, to Nippon Kogei Kogyo Co., Ltd. Apparatus for electrostatically coating powders on a workpiece. 3,667,676, 6-6-72, Cl. 239-15.000.
Watanabe, Tamotsu; Vando, Yasuo; and Tsurugi, Kozaburo, to Nippon Kogei Kogyo Co., Ltd. Device for spraying liquid. 3,693,882, 9-26-72, Cl. 239-296.000.
Watanabe, Tamotsu, to Nippon Kogei Kogyo Co., Ltd. Method and system for removing particles of floating dusts produced upon an excavation of a tunnel. 3,695,001, 10-3-72, Cl. 55-2.000.
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Watanabe, Toshio; Tsukamoto, Goro; Hayashi, Kimiaki; Sato, Masanori; and Iwasawa, Yoshio, to Tanabe Seiyaku Co., Ltd. 6,7-Diacyloxy-tetrahydroisoquinoline compounds. 3,647,799, 3-7-72, Cl. 260-286.
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Watanabe, Yoshihiro; Kobayashi, Jiro; and Tokumaru, Tooru, to Sumitomo Chemical Company, Ltd. Process for separating a tertiary olefin. 3,637,889, 1-25-72, Cl. 260-682.
Watanabe, Yoshimi, to Sony Corporation. Magnetic recording and/or reproducing device with tape engagement means which moves in a concentric path with the head. 3,647,984, 3-7-72, Cl. 179-100.2.
Watanabe, Yoshinori, to Honda Giken Kogyo Kabushiki Kaisha. Anti-skid brake apparatus. 3,655,016, 4-11-72, Cl. 188-181.
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Watanuki, Toshio, to Midori-Kai Co., Ltd., The. Hemispherical motion picture screen. 3,695,751, 10-3-72, Cl. 352-70.000.
Watanuki, Toshio, to Midori-Kai Co., Ltd, The, mesne. Camera for taking hemispherical motion picture. 3,698,803, 10-17-72, Cl. 352-69.000.
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Waterman, John E., to Entwistle Company, The. Roller adjustment for imprinting device. 3,705,548, 12-12-72, Cl. 101-269.000.
Waterman, Michael W., to Allis-Chalmers Manufacturing Company. Electrical winding of sheet conductor. 3,644,859, 2-22-72, Cl. 336-187.
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Waters, Graham Thomas, to Imperial Chemical Industries Limited. Textured core yarns. 3,691,750, 9-19-72, Cl. 57-144.000.
Waters, James L.; Abrahams, Louis; and Hutchins, Burleigh M., Jr., to Waters Associates, Inc. Differential refractometer. 3,674,373, 7-4-72, Cl. 356-130.000.
Waters, James R. Floor hoist. 3,700,132, 10-24-72, Cl. 214-768.000.
Waters, John R., to Johnston Laboratories, Inc. Apparatus for detecting biological activity. 3,676,679, 7-11-72, Cl. 250-83.6ft.
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Waters, Robert S.; and Spohr, Albert S., to Sunbeam Corporation. Skin treating appliance. 3,699,952, 10-24-72, Cl. 128-24.200.
Waters, Roy F.; Powell, Howard E.; and Ballard, Lee N., to United States of America, Interior. Recovery of metals and phosphate from waste phosphate sludge. 3,653,875, 4-4-72, Cl. 75-21.
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Watkins, Bruce J., to Regan Forge and Engineering Company. Flow line diverter apparatus. 3,664,376, 5-23-72, Cl. 137-625.68.
Watkins, Bruce J., to Regan Forge and Engineering Company. Method and apparatus for separating subsea well conduit couplings from a remote floating vessel. 3,675,713, 7-11-72, Cl. 166-.600.
Watkins, Charles H., to Universal Oil Products Company. Inhibiting LPG production in a hydrocracking process. 3,640,819, 2-8-72, Cl. 208-111.
Watkins, Charles H., to Universal Oil Products Company. Lubricating oil base stock production by hydrocracking two separate feedstocks. 3,649,518, 3-14-72, Cl. 208-59.
Watkins, Charles H., to Universal Oil Products Company. Lubricating oil base stock production by hydrocracking two separate feedstocks. 3,649,519, 3-14-72, Cl. 208-59.

Watkins, Charles H., to Universal Oil Products Company. Hydrocarbon desulfurization and sulfur recovery. 3,687,629, 8-29-72, Cl. 25-225.00p.
Watkins, Charles H., to Universal Oil Products Company. Hydrocarbon conversion apparatus. 3,702,237, 11-7-72, Cl. 23-288.00r.
Watkins, Fred E.; and Tausch, Gilbert H., to Camco, Incorporated. Well safety valve. 3,672,397, 6-27-72, Cl. 137-529.000.
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Watkins, John; and James, Reginald, to Lowe & Fletcher Limited. Locking device. 3,686,906, 8-29-72, Cl. 70-252.000.
Watkins, John A., to United-Carr Incorporated. Electromagnetic indicator having offset rotor magnet. 3,636,557, 1-18-72, Cl. 340-378.
Watkins, Louie W., Jr., to Data Packaging Corporation. Securing device for a flotation assembly. 3,705,432, 12-12-72, Cl. 9-8.00r.
Watkins, Lucius D., to Outboard Marine Corporation. Means and method of eliminating and controlling marine fouling. 3,661,506, 5-9-72, Cl. 21-58.
Watkins, Phillip L.; and Cox, Raymond W., to United States of America, Navy. Shift register clocking at high speeds where parallel operation is needed. 3,700,931, 10-24-72, Cl. 328-63.000.
Watkins, Robert V., to International Business Machines Corporation. Synchronous frequency shift data transmission system in which opposite binary characterizations are transmitted as half cycles of a first carrier signal of a first carrier signal of frequecy equal to that of a keying signal and as full cycles of a second carrier signal of frequency twice that of the keying signal. 3,665,103, 5-23-72, Cl. 178-66.00r.
Watkins, Sidney C., to Avco Corporation. Flat spray fuel nozzle. 3,702,175, 11-7-72, Cl. 239-422.
Watkins-Johnson Company: *See—*
Gralenski, Nicholas M., 3,691,417.
Purnell, Merton V., 3,684,914.
Watkinson, Leonard James; and Moore, Brian Joseph, to Howson, W. H., Limited. Presensitized printing plate coated with colorant. 3,669,668, 6-13-72, Cl. 96-86.00p.
Watlington, Frank W. Polling method utilizing telephone transmission and recording system. 3,644,675, 2-22-72, Cl. 179-2.
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Desluge, George B., 3,684,859.
Wrob, Ronald M., 3,632,978.
Watmough, Thomas; and Schey, John A., to IIT Research Institute. Hot forming of titanium and titanium alloys. 3,635,068, 1-18-72, Cl. 72-342.
Watrous, Donald L.; and Cote, Paul T., to General Electric Company. Sequencing static electronic flashing circuits for photoflash lamp array. 3,676,045, 7-11-72, Cl. 431-95.000.
Watson, Alvin N., to Johanson Technology, Inc. Capacitor with malleable means for providing a hermetic seal and strain relief. 3,633,079, 1-4-72, Cl. 317-242.
Watson, Alvin N., to Johanson Technology, Inc. Capacitor utilizing a glass sleeve as structural and spacing means. 3,633,080, 1-4-72, Cl. 317-242.
Watson, Cecil C. Building panel and structure constructed therewith. 3,665,664, 5-30-72, Cl. 52-211.
Watson, Charles Andrew: *See—*
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Watson Chemical Corporation: *See—*
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Watson, Christopher Alan, to Standard Telephones and Cables Limited. Magnetic recording device with printed circuit coils formed with the circuit sheet folded in concertina fashion. 3,634,632, 1-11-72, Cl. 179-100.2.
Watson, Christopher Alan; and Maxfield, John Raymond, to International Standard Electric Corporation. Character generation system having bold font capability. 3,678,497, 7-18-72, Cl. 340-324.00a.
Watson, Christopher John Hamilton, to United Kingdom Atomic Energy Authority. Plasma confinement apparatus. 3,668,068, 6-6-72, Cl. 176-3.000.
Watson, Christopher John Hamilton, to United Kingdom Atomic Energy Authority. Plasma confinement apparatus. 3,674,634, 7-4-72, Cl. 176-3.000.
Watson, Clyde D.: *See—*
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Watson, Donald W., to Xerox Corporation. Combination controller-label form for article labeling systems. 3,641,313, 2-8-72, Cl. 235-61.6.
Watson, Donald W., to Xerox Corporation. Stacker with a labeling machine. 3,654,040, 4-4-72, Cl. 156-568.
Watson, Earnest B., 50% to Bowers, Raymond S., Jr. Counterbalancing system for oil field pump jacks. 3,646,833, 3-7-72, Cl. 74-589.
Watson, Edgar J.: *See—*
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Watson, Edward J.; and LaBar, Dale H., to American Home Products Corporation. Process for the preparation of 2-substituted-1,3-cyclopentanediones. 3,671,589, 6-20-72, Cl. 260-586.00r.
Watson, Edward John, Jr., to Morton-Norwich Products, Inc., mesne. 3,4-Dihydrobenzo (B) (1,7) naphthyridin-1(2H)-ones. 3,700,673, 10-24-72, Cl. 260-287.00r.
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Watson, Frank G. Order transfer assembly for preventing holdups. 3,669,038, 6-13-72, Cl. 109-12.
Watson, Frank George; and Sugden, David Burnet, to Robbins, James S., and Associates, Inc. Shield tunneling method. 3,640,077, 2-8-72, Cl. 61-42.
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Mayse, Weldon D.; and Watson, Frederick D., 3,672,127.
Watson, Frederick D.; and Mayse, Weldon D., to Petrolite Corporation. Corrosion test probe assembly. 3,632,495, 1-4-72, Cl. 204-195.
Watson, Frederick D.; and Winslow, Joseph D., Jr., to Petrolite Corporation. Electric treatment of conductive dispersions. 3,649,500, 3-14-72, Cl. 204-188.
Watson, Frederick D.; and Winslow, Joseph D., Jr., to Petrolite Corporation. Treater for resolving dispersions. 3,672,511, 6-27-72, Cl. 210-519.000.
Watson, Gary Q. Protection of anchor rods against corrosion. 3,675,381, 7-11-72, Cl. 52-166.000.
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Watson, George A., to North American Rockwell Corporation. Method and apparatus for addressing a memory at selectively controlled rates. 3,639,913, 2-1-72, Cl. 340-172.5.
Watson, George A., to Celanese Corporation. Method for production of crosslapped structures. 3,660,867, 5-9-72, Cl. 19-163.
Watson, George A., to Celanese Corporation. Method of making a semi-continuous filament combination yarn. 3,664,115, 5-23-72, Cl. 57-156.
Watson, George A., to Celanese Corporation. Production of batting. 3,681,796, 8-8-72, Cl. 5-337.000.
Watson, George A., to North American Rockwell Corporation. Circuit for sampng high speed data. 3,699,459, 10-17-72, Cl. 328-151.000.
Watson, Gerard L.; and Latshaw, Don, to Marvue, Inc. Veneer inspection system. 3,694,658, 9-26-72, Cl. 250-219.0df.
Watson, Jack B.: *See—*
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Watson, James K., to United States of America, Navy. Stabilizing fin assembly. 3,697,019, 10-10-72, Cl. 244-3.290.
Watson, James Power, to RCA Corporation. Multi-electrode transducer element. 3,648,279, 3-7-72, Cl. 340-365.
Watson, James W., to Swift & Company. Manufacture of potassium metaphosphate. 3,650,684, 3-21-72, Cl. 23-107.

Watson, James W.; and Payne, Billy D., to SCM Corporation. Method for catalyzing polyurea coatings. 3,702,777, 11-14-72, Cl. 117-72.000.
Watson, John, to Monarch Western Equipment Ltd. Automobile conveyor. 3,693,392, 9-26-72, Cl. 104-172.00b.
Watson, John D.; Thompson, Francis T.; and Johnson, Frederick O., to Westinghouse Electric Corporation. Overcurrent protective device. 3,666,994, 5-30-72, Cl. 317-36.
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Watson, Lloyd M.; and Birchall, William R., to National Distillers and Chemical Corporation. Process for hydrogenation of aromatic hydrocarbons. 3,645,994, 2-29-72, Cl. 260-82.1.
Watson, Lloyd M.; and Broering, Leo H., to National Distillers and Chemical Corporation. Process for reducing equipment fouling the manufacture of butadiene homopolymer. 3,649,606, 3-14-72, Cl. 260-82.1.
Watson, Lloyd M.; and Birchall, William R., to National Distillers and Chemical Corporation. Apparatus for preparing dispersions of finely-divided alkali metal. 3,677,477, 7-18-72, Cl. 241-31.000.
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Watson, Roger W.; Brannen, William T., Jr.; and Hillstrom, Warren W., to Standard Oil Company. Additives for fuels and lubricants. 3,652,616, 3-28-72, Cl. 260-429.
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Watson, Roy H. A.: *See—*
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Watson, Searcy A. Two-part hinge with integral pin. 3,696,463, 10-10-72, Cl. 16-178.000.
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Watts, Chester B., Jr., to Scanivell Laboratories, Inc. Crab angle sensing system. 3,683,281, 8-8-72, Cl. 325-312.000.
Watts, Chester B., Jr. Slotted cable glide slope antenna. 3,699,582, 10-17-72, Cl. 343-737.000.
Watts, Claude H., to Precision Metalsmiths, Inc. Metal casting processes with vacuum and pressure. 3,705,615, 12-12-72, Cl. 164-62.000.
Watts, Cleal T. Airconditioning in conjunction with internal combustion engine. 3,648,480, 3-14-72, Cl. 62-268.
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Watts, George T.; and Yeager, Robert W., to Goodyear Tire & Rubber Company, The. Bias-belted pneumatic tire. 3,675,703, 7-11-72, Cl. 152-361.000.
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Watts, Robert Z.; and Weiss, Robert L., to International Business Machines Corporation. Signal analysis. 3,696,341, 10-3-72, Cl. 340-172.500.
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Watts, Woodrow H.; and Bartlett, George A. Liquid dispensing apparatus and method. 3,695,314, 10-3-72, Cl. 141-59.000.
Watwood, Robert P.; and Moore, James A., to Union Carbide Corporation. Seed-tape and card-spool-and-row-marker assembly. 3,643,795, 2-22-72, Cl. 206-45.14.
Watz, Martin C., to Anheuser-Busch, Incorporated. Apparatus and process for measuring the amount of air in gaseous mixtures of carbon dioxide and air. 3,695,845, 10-3-72, Cl. 23-232.00r.
Waud, Cornelius Byron; and Gruca, Ned J., to Illinois Tool Works Inc. Combination screw. 3,661,046, 5-9-72, Cl. 85-46.
Waud, Cornelius Byron, to Illinois Tool Works Inc. Threaded fastener with stabilizing threads. 3,682,507, 8-8-72, Cl. 287-189.36f.
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Waybright, George Cleveland, to GTE Sylvania Incorporated. Vertical sweep multivibrator having false trigger protection. 3,681,712, 8-1-72, Cl. 331-145.000.
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Wayman, Robert W.; and Wiemer, Howard C., to Borg-Warner Corporation. Hydraulic transmission. 3,635,023, 1-18-72, Cl. 60-53.
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Deutscher, Guy; and Waysand, Georges, 3,663,902.
Wayson, Andrew J., to Merriman, Inc. Traveler with means for limiting friction and tilting. 3,664,113, 5-23-72, Cl. 57-125.
Wayson, Andrew J.; and DeStefano, Richard T., to Merriman, Inc. Means for supplying a plurality of spinning rings with fluid lubricant. 3,669,219, 6-13-72, Cl. 184-7.00a.
Wayson, Andrew J.; and O'Connell, John T., to Merriman, Inc. Method of making a porous metal spinning ring. 3,676,917, 7-18-72, Cl. 29-420.500.
Wayson, Andrew J.; and O'Connell, John T., to Merriman, Inc. Continuous method of forming two-part travelers. 3,703,759, 11-28-72, Cl. 29-417.000.
Waywell, David R.; and West, Charles T., to Standard Oil Company. Isomerization of dihydronaphthalenes. 3,699,180, 10-17-72, Cl. 260-668.00f.
Waz, Edward M.: *See—*
Huboi, Robert W.; Waz, Edward M.; and Seckel, Thomas G., 3,644,664.
Wazumi, Seiichi, to Minolta Camera Co., Ltd. Camera flash indicating system. 3,668,985, 6-13-72, Cl. 95-10.
Weagant, William D., to Sigman Industries, Inc. Cable splice cover. 3,641,253, 2-8-72, Cl. 174-93.
Weage, Kenneth A., to Evans Products Company. Gondola bulkhead. 3,680,492, 8-1-72, Cl. 105-376.000.
Weagle, James A., to Krueger Metal Products, Inc. Folding table leg. 3,695,567, 10-3-72, Cl. 248-188.600.
Weakly, Marlin Earle, to Deere & Company. Combine clean grain elevator. 3,643,826, 2-22-72, Cl. 214-519.
Wean Industries, Inc.: *See—*
Bandy, Kenneth L., 3,645,046.
Gerretz, Josef; Hagedorn, Willi; and Kemmerling, Karl-Heinz, 3,659,446.

Kamena, Fred; and Sgambati, Anthony P., 3,688,543.
Ledebur, Harry C., 3,668,916.
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Schmitt, Paul; Hien, Manifred; and Kemmerling, Karl-Heinz, 3,688,962.

Wean United, Inc.: *See—*
Amend, William P., 3,702,557.
Greenberger, Joseph Irwin, 3,702,912.
Shumaker, Charles Storer, 3,702,554.

Weaner, Edward. Eyelash applicator. 3,670,742, 6-20-72, Cl. 132-88.700.

Wear, George H.: *See—*
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Wear, Robert L., to Minnesota Mining and Manufacturing Company. Copolymers of phenylindan dicarboxylic acid and an aromatic dihydroxy compound. 3,657,185, 4-18-72, Cl. 260-47.

Wear, Robert L., to Minnesota Mining and Manufacturing Company. Ultraviolet light inhibitors. 3,666,713, 5-30-72, Cl. 260-45.80a.

Weather Control Shutters, Inc.: *See—*
Sassano, John H., 3,667,161.
Sassano, John H., 3,670,797.

Weather-Rite Inc.: *See—*
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Weatherby, Eugene J.: *See—*
Kane, Gerald J.; and Weatherby, Eugene J., 3,658,480.

Weatherby, John H.: *See—*
Baer, John S.; and Weatherby, John H., 3,685,622.

Weatherby, John H., to Warner Electric Brake & Clutch Company, mesne. Helical spring clutch. 3,648,810, 3-14-72, Cl. 192-26.

Weatherell, James W., to Clair Mfg., Co., Inc. Automatic buff pressure setting. 3,665,647, 5-30-72, Cl. 51-45.

Weatherford Oil Tool Company, Inc.: *See—*
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Weatherhead Company, The: *See—*
Brunelle, William; and Cartwright, James W., 3,707,032.
Budzich, Tadeusz; and Patel, Hiralal V., 3,656,689.
Jeromson, James R., Jr.; and Kennelly, Robert W., 3,649,799.
Keady, Frederick D., 3,698,771.
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Mundt, James E.; and Powell, Milan, 3,669,407.
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Scanidi, Adam M., 3,685,860.
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Wellman, Ellis M., 3,637,963.
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Weatherman, John F.; Walker, Gary J.; and Conley, Larry R., to Micro-Technology. Apparatus for welding a conductor through cold flowable insulation. 3,705,970, 12-12-72, Cl. 219-86.000.

Weatherman, Nile Ray: *See—*
Reese, Richard T.; and Weatherman, Nile Ray, 3,695,287.

Weatherred, Preston A., Jr. Product function root extractor. 3,634,672, 1-11-72, Cl. 235-193.5.

Weathers, Paul. Security alarm system. 3,636,485, 1-18-72, Cl. 335-205.

Weathers, Robert E. Thermo cold-pak container. 3,703,816, 11-28-72, Cl. 62-457.000.

Weathershields Limited: *See—*
Butler, James, 3,666,318.
Perks, Joseph, 3,683,993.

Weatherston, Richard N., to Weather-Rite Inc. Staged heating and cooling system. 3,677,335, 7-18-72, Cl. 165-12.000.

Weatherston, Roger C.; and Duryea, George R., to Cornell Aeronautical Laboratory, Inc. Two-stage compressor having interengaging rotary members. 3,667,874, 6-6-72, Cl. 418-9.000.

Weaver, Chester H.; and Hoffberger, Charles C., III. Small boat carrier. 3,663,040, 5-16-72, Cl. 280-414.00r.

Weaver, Cletus. Pipe cap. 3,669,153, 6-13-72, Cl. 138-89.

Weaver, David R.; Emery, Anthony G.; and Spearing, Michael Henry, to BP Chemicals Limited. Twin beam radiation analyser using radiation choppers. 3,659,111, 4-25-72, Cl. 250-220.

Weaver, Earle R., to General Electric Company. Feedwater heater and strainer arrangement for multiple-effect ting film desalination plant. 3,697,383, 10-10-72, Cl. 202-174.000.

Weaver, Edward A., to Owens-Illinois, Inc. Ferrimagnetic glass-ceramics. 3,694,360, 9-26-72, Cl. 252-62.590.

Weaver, Elmer A. Process for flavoring foods. 3,669,684, 6-13-72, Cl. 99-100.000.

Weaver, Frank C., to Stewart-Warner Corporation. Diaphragm pressure switch with integral stop means for diaphragm sealing. 3,673,369, 6-27-72, Cl. 200-83.00b.

Weaver, Galen K.; Shaffer, Howard A.; and Coughlin, Stephen A., to Babcock & Wilcox Company, The. Brazeable terminal body. 3,676,575, 7-11-72, Cl. 174-94.00r.

Weaver, Harry R.: *See—*
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Weaver, Harry Zane, to RCA Corporation. Magnetic transducer fabrication technique. 3,706,132, 12-19-72, Cl. 29-603.000.

Weaver, James C.: *See—*
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Weaver, John: *See—*
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Weaver, John L.; and Smoot, Edward H., to Schlegel Manufacturing Company, The. Channel held weather seal. 3,656,260, 4-18-72, Cl. 49-489.

Weaver, John M.: *See—*
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Weaver, Leonard Wheelock, to Bird & Son, Inc. Plastic gutter expansion joint construction. 3,670,505, 6-20-72, Cl. 61-14.000.

Weaver, Marlin P.: *See—*
Smoker, Benjamin K.; Weaver, Richard L.; and Weaver, Marlin P., 3,679,042.

Weaver, Max A.; Straley, James M.; and Coates, Clarence A., Jr., to Eastman Kodak Company. Disperse mono azo dyes containing an acylamidoterahydroquinoline group. 3,635,941, 1-18-72, Cl. 260-155.

Weaver, Max A.; and Pridgen, Herman S., to Eastman Kodak Company. Monoazo compounds containing a 3-acylamidoaniline coupling component. 3,639,384, 2-1-72, Cl. 260-152.

Weaver, Max A.; and Pridgen, Herman S., to Eastman Kodak Company. Heterocylclic monoazo compounds from N,N-diaralkyl anilines and polyester textile materials dyed therewith. 3,639,385, 2-1-72, Cl. 260-158.

Weaver, Max A.; Pridgen, Herman S.; and Coates, Clarence A., Jr., to Eastman Kodak Company. Mono azo compounds containing an aroyl-amino-N-alkoxycarboriyl benzylaniline coupling component. 3,640,995, 2-8-72, Cl. 260-207.1.

Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Thiadiazolylazo compounds. 3,657,187, 4-18-72, Cl. 260-158.

Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Thiadiazolyl azo compounds and textile materials dyed therewith. 3,657,215, 4-18-72, Cl. 260-158.

Weaver, Max A.; Pridgen, Herman S.; and Coates, Clarence A., Jr., to Eastman Kodak Company. Azo compounds from alkyl α-anilinotoluates. 3,660,374, 5-2-72, Cl. 260-207.

Weaver, Max A.; Straley, James M.; and Moore, William H., to Eastman Kodak Company. 1,3,4-Thiadiadiazolylazo-3-cyclohexylamino acylanilide dyes. 3,673,169, 6-27-72, Cl. 260-158.000.

Weaver, Max A.; and Giles, Ralph R., to Eastman Kodak Company. Anthraquinone compounds containing a triazolylthio group. 3,689,501, 9-5-72, Cl. 260-308.00r.

Weaver, Max A.; and Straley, James M. Azo compounds containing an arylsulfonyl phenyl diazo component. 3,692,769, 9-19-72, Cl. 260-207.100.

Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Thiazolyl-monoazo-tetrahydroquinoline dyes. 3,699,092, 10-17-72, Cl. 260-155.000.

Weaver, Merle L.; and Hautala, Earl, to United States of America, Agriculture. Preparation of fried potato products. 3,669,685, 6-13-72, Cl. 99-103.000.

Weaver, Paul J., to Automatic Control Systems, Inc. Follower mechanism responsive to abrupt changes in cam slope in cam-controlled machines. 3,683,726, 8-15-72, Cl. 82-14.00r.

Weaver, Paul J., to Automatic Control Systems, Inc. Machine control utilizing a plurality of control templates and tracer mechanisms. 3,690,200, 9-12-72, Cl. 82-14.00a.

Weaver, Paul J., to Automatic Control Systems, Inc. Tool offset means for tracer mechanisms. 3,697,040, 10-10-72, Cl. 251-3.000.

Weaver, Preston R., to UMC Electornics Company. Accelerometer. 3,643,513, 2-22-72, Cl. 73-517.

Weaver, Preston R., to UMC Electronics Company. Fluid pressure monitoring system. 3,698,249, 10-17-72, Cl. 73-398.00r.

Weaver, Richard L.: *See—*
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Weaver, Richard L.; and Smoker, Benjamin K. (said Smoker assor. to said), 3,679,168.

Weaver, Richard L.; and Smoker, Benjamin K., said Smoker assor. to said Weaver, Richard L. Clamping device. 3,679,168, 7-25-72, Cl. 249-196.000.

Weaver, Robert: *See—*
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Weaver, Roger; and Schaffstall, Eugene, to Oxford Chemicals. Composition and method for blackening metal articles. 3,677,827, 7-18-72, Cl. 148-6.14r.

Weaver, Ronald L. Combination shaving brush and stand. 3,653,090, 4-4-72, Cl. 15-105.

Weaver, Theodore L.: *See—*
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Steck, William F., 3,645,635.
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Thompson, John F., 3,696,516.

Weaver, William R. Smoking pipe. 3,675,661, 7-11-72, Cl. 131-212.000.

Weaver, William R., to Libbey-Owens-Ford Company. Core for use in pressure molding. 3,692,551, 9-19-72, Cl. 106-38.300.

Weaving, John Harold; and Haynes, Cecil David. Atmospheric pollution control arrangement for internal combustion engine. 3,702,111, 11-7-72, Cl. 123-119.00a.
Weaving, John Harold, to British Leyland Motor Corporation Limited. Atmospheric pollution control arrangement for internal combustion engine. 3,703,164, 11-21-72, Cl. 123-119.00a.
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Web Press Corporation: *See—*
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Webasto-Werke W. Baier KG: *See—*
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Webb, Alan E., to Rolls-Royce Limited. Method for forming an electrically insulating coating. 3,642,530, 2-15-72, Cl. 117-217.
Webb, Albert E., to General Aniline & Film Corporation. Slide viewer. 3,675,354, 7-11-72, Cl. 40-63.00a.
Webb, Austin A. Rail car and supporting track and switch system. 3,640,227, 2-8-72, Cl. 104-130.
Webb, Bryant F.; and Schwalm, Bruce D., to Sperry Rand Corporation. Flail type rotor for a material spreader. 3,640,473, 2-8-72, Cl. 239-658.
Webb, Byron K.; and Hood, Clarence E., to Research Corporation. Orchard machine. 3,635,004, 1-18-72, Cl. 56-235.
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Webb, Cleitus E., Jr.; and Johnson, Royce F., to Windsor Door Co., Inc. Swing-up door mullion. 3,672,098, 6-27-72, Cl. 49-365.000.
Webb, Daniel D., to American Safety Equipment Corporation of Michigan. Face shield. 3,686,690, 8-29-72, Cl. 2-9.000.
Webb, Darrow L., to United States of America, National Aeronautics and Space Administration. Electronic video editor. 3,702,898, 11-14-72, Cl. 178-6.000.
Webb, Derek James: *See—*
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Webb, Frank Allan; and Shorter, John Jeffrey, to Blatchford, Chas. A., & Sons Limited. Fluid pressure control device for an artificial leg. 3,670,341, 6-20-72, Cl. 3-1.200.
Webb, Frederick J.; and Tate, David P., to Firestone Tire & Rubber Company, The. Process and composition for water-soluble polymers. 3,647,774, 3-7-72, Cl. 260-94.2.
Webb, Geoffrey A. M.: *See—*
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Webb, George, to Avco Corporation. Recoil pad. 3,696,544, 10-10-72, Cl. 42-74.000.
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Webb, Halmar J.; and Mc Kinley, Walter E. Carton adapted for field assembly. 3,632,037, 1-4-72, Cl. 229-23.
Webb, James E. Anchor carrier and guide. 3,635,187, 1-18-72, Cl. 114-210.
Webb, James E. Anchor carrier and guide. 3,675,608, 7-11-72, Cl. 114-210.000.
Webb, James R.; and Webb, Richard C., to United Bank of Denver National Association, mense. Capacitive electric signal device and keyboard using said device. 3,653,038, 3-28-72, Cl. 340-365.
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Webb, Joseph A. Digital signal generator synthesizer. 3,654,450, 4-4-72, Cl. 235-197.
Webb, Joseph H.; and Stiles, Donald G. Conveyor apparatus. 3,655,029, 4-11-72, Cl. 198-127.
Webb, Larry Joe, to Honeywell Information Systems Inc., mesne. Apparatus to visually identify and test wires in a multi-wire cable. 3,699,438, 10-17-72, Cl. 324-66.000.
Webb, Leonard D.: *See—*
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Webb, Louis R. Portable cooking stove. 3,698,376, 10-17-72, Cl. 126-9.00r.
Webb, Michael: *See—*
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Webb, Oswald, to Ferguson, Harry, Research Limited. Clutches. 3,680,673, 8-1-72, Cl. 192-41.000.
Webb, Paul D., to Fraser-Webb Corporation. Engine starter. 3,690,189, 9-12-72, Cl. 74-8.000.
Webb, Ralph L., to Trane Company, The. Heat transfer surface having a high boiling heat transfer coefficient. 3,696,861, 10-10-72, Cl. 165-133.000.
Webb, Richard A.: *See—*
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Webb, Richard C.; and Heath, Robert T., to Colorado Instruments, Inc. Data collection station and static card reader therefor. 3,701,885, 10-31-72, Cl. 235-61.11c.
Webb, Richard V.; and Batesky, Donald C., to Eastman Kodak Company. Method of preparing poly(copperphthalocyanine). 3,674,805, 7-4-72, Cl. 260-314.50r.
Webb, Richard V., to Eastman Kodak Company. Solvent composition for liquid scintillation counting. 3,677,964, 7-18-72, Cl. 252-364.000.
Webb, Robert M.: *See—*
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Webb, Robert M.; and Parry, Keith S., to Creears, T. H., Corporation. Fluid level control system. 3,665,209, 5-23-72, Cl. 307-118.000.
Webb, Samuel L.: *See—*
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Webber, Harold H.; and Riordan, Pauline F., to Brunswick Corporation. Antistatic garment. 3,699,590, 10-24-72, Cl. 2-73.000.
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Webber, J. Alan; and Van Heyningen, Earle M., to Lilly, Eli, and Company. 3-Aminomethyl cephalosporin compounds. 3,644,347, 2-22-72, Cl. 260-243.
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Weber, Abraham; Frossard, Jacques Jean; and Bouzard, Daniel, to Mead Johnson & Company. Aminopropionanilides. 3,647,877, 3-7-72, Cl. 260-562.
Weber, Abraham; and Frossard, Jacques Jean, to Mead Johnson & Company, mesne. Dibenzothiazepine ether intermediates. 3,651,087, 3-21-72, Cl. 260-327.
Weber, Abraham; and Frossard, Jacques Jean, to Mead Johnson & Company. Dibenzothiazephine ethers. 3,700,663, 10-24-72, Cl. 260-243.00b.

Weber, Abraham; and Frossard, Jacques Jean, to Mead Johnson & Company. Octalone carboxylic acid anhydrides. 3,704,250, 11-28-72, Cl. 260-346.350.
Weber, Alexander F. Low profile wiper-washer assembly. 3,670,354, 6-20-72, Cl. 15-250.040.
Weber, Anthony V., to Weber Industries, Inc. Pump control. 3,679,326, 7-25-72, Cl. 417-38.000.
Weber, Bernhard. Infinitely variable transmission. 3,688,594, 9-5-72, Cl. 74-191.000.
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Weber, Carl. Vending machine. 3,697,148, 10-10-72, Cl. 312-268.
Weber, Carl L.; Wolk, Ronald H.; and Chervenak, Michael C., to Hydrocarbon Research, Inc. Phase separation of a gas-liquid-solid mixture. 3,677,716, 7-18-72, Cl. 23-288.00e.
Weber, Charles A., to Elkhart Welding & Boiler Works, Inc. Trailer hitch. 3,679,232, 7-25-72, Cl. 280-406.00a.
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Weber, Edwin J., to Black and Decker Manufacturing Company, The. Coupling for tool element. 3,670,413, 6-20-72, Cl. 30-276.000.
Weber, Edwin J., to Black and Decker Manufacturing Company, The. Blade mounting means. 3,673,777, 7-4-72, Cl. 56-17.500.
Weber, Edwin J., to Black and Decker Manufacturing Company, The. Grass catcher for reel type mower. 3,691,740, 9-19-72, Cl. 56-198.000.
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Weber, Gunter R.; Bickel, Charles E.; and Krueger, Richard W., to Burroughs Corporation. Disc file AGC circuit. 3,660,821, 5-2-72, Cl. 340-174.1.
Weber, Guy Paul, to La Cellophane. Apparatus for reading and electrophotographically reproducing microphotographs of varying sizes. 3,692,409, 9-19-72, Cl. 355-45.000.
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Weber, Hans, to Demag Aktiengesellschaft. Process and apparatus for stretch forming metal. 3,690,138, 9-12-72, Cl. 72-189.000.
Weber, Hans B.; and Brown, Joseph, to Midland-Ross Corporation. Dampened railway car truck. 3,670,660, 6-20-72, Cl. 105-171.000.
Weber, Heinz, to Telesco Brophey Limited. Automatically-opened, longitudinally-collapsible umbrella with improved handle. 3,640,298, 2-8-72, Cl. 135-25.
Weber, Heinz, to Telesco Brophey Limited. Umbrella. 3,643,673, 2-22-72, Cl. 135-20.
Weber, Heinz, to Bremshey & Co. Collapsible umbrella frame. 3,650,284, 3-21-72, Cl. 135-26.
Weber, Heinz, to Telesco Brophey Limited. Umbrella handle. 3,661,162, 5-9-72, Cl. 135-20.
Weber, Heinz, to Telesco Brophey Limited. Handle for umbrella. 3,670,748, 6-20-72, Cl. 135-20.000.
Weber, Heinz, to Institut fur angewandte Physik der Universitat Bern. Process and device for the generation of a single-frequency light ray. 3,676,796, 7-11-72, Cl. 331-94.500.
Weber, Heinz, to Telesco Brophey Limited. Handle for collapsible umbrella. 3,678,949, 7-25-72, Cl. 135-20.000.
Weber, Heinz. One-piece runner for collapsible umbrellas. 3,688,788, 9-5-72, Cl. 135-28.000.
Weber, Heinz, to Bremshey & Co. Collapsible umbrella. 3,693,643, 9-26-72, Cl. 135-26.000.
Weber, Heinz, to Telesco Brophey Limited. Telescopic umbrella. 3,698,410, 10-17-72, Cl. 135-26.000.
Weber, Heinz, to Telesco Brophey Limited. Collapsible umbrella. 3,699,988, 10-24-72, Cl. 135-20.000.
Weber, Heinz, to Telesco Brophey Limited. Collapsible umbrella. 3,702,618, 11-14-72, Cl. 135-25.00r.
Weber, Heinz, to Telesco Brophey Limited. Umbrella handle. 3,705,592, 12-12-72, Cl. 135-20.00r.
Weber, Heinz, to Telesco Brophey Limited. Umbrella. 3,705,593, 12-12-72, Cl. 135-20.000.
Weber, Heinz Paul: *See*—
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Weber, Helmut: *See*—
Pfeuffer, Alfred; Kalkhof, Gustav; and Weber, Helmut, 3,704,012.
Weyer, Rudi; Aumuller, Walter; Weber, Helmut; Muth, Karl; and Heerdt, Ruth, 3,644,634.
Weber, Helmut; Weyer, Rudi; Aumuller, Walter; Muth, Karl; and Stach, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzenesulfonyl ureas having hypoglycemic activity. 3,655,756, 4-11-72, Cl. 260-553.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Stach, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzene-sulfonyl semicarbazides and process for preparing them. 3,705,151, 12-5-72, Cl. 260-239.0ba.
Weber, Henri. Tool. 3,666,238, 5-30-72, Cl. 254-131.5.
Weber, Hermann: *See*—
Knauft, Gunter; Koederitz, Fritz; Painke, Helmut; Reichl, Leopold; Lampe, Hans H.; Vachenauer, Robert; Vogt, Edwin; and Weber, Hermann, 3,659,273.
Weber, Horst: *See*—
Schwochow, Friedrich; Heinze, Gerhard; and Weber, Horst, 3,685,963.
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Weber, James W. Table. 3,683,824, 8-15-72, Cl. 108-92.000.
Weber, John L. Polishing machine. 3,631,634, 1-4-72, Cl. 51-131.
Weber, Joseph H. Game structure employing markers and links. 3,695,616, 10-3-72, Cl. 273-130.00r.
Weber, Jurgen: *See*—
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Weber, Karl F. Display panel for merchandise or the like. 3,698,565, 10-17-72, Cl. 211-87.000.
Weber, Karl Heinz; and Engelhardt, Horst, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesseru m.b.H. Apparatus for controlling and regulating a cutter hoist. 3,633,081, 1-4-72, Cl. 318-39.
Weber, Karl-Arnold: *See*—
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Weber, Karl-Heinz; Merz, Herbert; Zeile, Karl; Giesemann, Rolf; and Danneberg, Peter, to Boehringer, C. H., Sohn. 5-Aryl-1H-1,5-benzodiazepine-2,4-diones. 3,660,381, 5-2-72, Cl. 260-239.3.
Weber, Karl-Heinz; Bauer, Adolf; Merz, Herbert; and Minck, Klaus, to Boehringer Ingelheim G.m.b.H. 7-Nitro-1H-1,5-benzodiazepine-2,4-(3H,5H)-diones. 3,678,033, 7-18-72, Cl. 260-239.300.
Weber, Karl-Heinz; Zeile, Karl; Giesemann, Rolf; and Danneberg, Peter, to Boehringer Ingelheim G.m.b.H. Psychosedative compositions containing 1-acyl-5-phenyl 1H-1,5-benzodiazepine-2,4-(3H,5H)-diones and methods of using the same. 3,683,348, 8-8-72, Cl. 42-244.000.
Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Karl Heinz; deceased (by Hauptmann, Maria; heir), to Boehringer Ingelheim G.m.b.H. 5-Phenyl-7-chloro-1H-1,5-benzodiazepine-2,4-(3H,5H)-diones. 3,684,798, 8-15-72, Cl. 260-239300.
Weber, Karl-Heinz; Bauer, Adolf; Danneberg, Peter; Minek, Klaus; and Pook, Karl-Heinz, to Boehringer Ingelheim G.m.b.H. 1,5,7-Trisubstituted-3-hydroxy-1H-1,5-benzodiazepine-2,4-[3H,5,H]diones. 3,707,538, 12-26-72, Cl. 260-239.30r.
Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Heinz; deceased (by Hauptmann, Maria; heir), said Weber said Zeile said Danneberg and said Giesemann assors. to Boehringer Ingelheim G.m.b.H. 5-Phenyl-7-Trifluoromethyl-1H-1,-benzodiazepine-2,4-diones. 3,707,539, 12-26-72, Cl. 260-239.30b.
Weber, Kenneth E.; Hoch, Geraldine H.; and Wanamaker, John L., to Lockheed Aircraft Corporation. Production of dicobaltous oxychromate and percobaltous oxychromate. 3,664,808, 5-23-72, Cl. 23-56.000.

Weber, Klaus; and Urbahn, Fritz, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Multi-spindle drive means for spinning and twisting machines. 3,664,111, 5-23-72, Cl. 57-105.
Weber, Klaus; Becker, Erwin; and Grosstuck, Werner, to Weber, Klaus D. Method of producing separating nozzles. 3,668,080, 6-6-72, Cl. 204-9.000.
Weber, Klaus D.: *See—*
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Larson, Leonard G.; Anderson, Bror E.; and Schick, Margery L., 3,694,244.
Roser, Gerhard K.; Rebechini, Eugene J.; and Vosburg, Guy M., 3,678,848.
Weber, Paul; Ritzmann, Horst; and Butschko, Gerhard, to Polysius AG. Apparatus for heat treatment of material from which water has been mechanically extracted. 3,664,650, 5-23-72, Cl. 263-32.
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Weber, Paul E., to Bell & Howell Company. Semi-conductive apparatus for detecting light of given flux density levels. 3,693,016, 9-19-72, Cl. 250-211.00j.
Weber, Paul E. Multiple lenslet copier. 3,694,076, 9-26-72, Cl. 355-50.000.
Weber, Raymond B., to Milprint, Inc. Tachistoscope. 3,704,533, 12-5-72, Cl. 35-35.00b.
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Weber, Robert L., to Scovill Manufacturing Company. Rest-inducing device. 3,672,354, 6-27-72, Cl. 128-33.000.
Weber, Robert L., to Scovill Manufacturing Company. Hair-drying comb. 3,696,818, 10-10-72, Cl. 132-9.000.
Weber, Roger L.: *See—*
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Weber, Roger L., to Texas Instruments, Incorporated. Method of adjusting inductive devices. 3,670,406, 6-20-72, Cl. 29-593.000.
Weber, Roland E.; and Zimmermann, Carl J. Anti-pollution device for removing debris from liquid. 3,698,558, 10-17-72, Cl. 210-256.000.
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Weber, Rudolf; and Jahn, Emil, to International Standard Electric Corporation. Arrangement for lubricating the perforating pins of tape and card perforators. 3,668,960, 6-13-72, Cl. 83-169.000.
Weber, Russell W. Carpet-trimming. 3,678,586, 7-25-72, Cl. 33-174.00g.
Weber, Sheldon Alan, to Ampex Corporation. Magnetic recording tape and method for preparing the same. 3,647,539, 3-7-72, Cl. 117-235.
Weber, Urban A.: *See—*
Laakaniemi, Richard N.; Kuczkowki, Frank A.; Atkinson, Louis D.; Kuhar, Paul W.; Lechner, Thomas J., Jr.; and Weber, Urban A., 3,705,595.
Weber, Urban A.; and Janu, George J., to Johnson Service Company. Bleed type fluid pressure control apparatus and diaphragm unit therefor. 3,662,779, 5-16-72, Cl. 137-489.
Weber, Vernon F., to GTE Automatic Electric Laboratories Incorporated. Tone detector control circuit. 3,638,038, 1-25-72, Cl. 307-233.
Weber, Walter W.: *See—*
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Weber, Wilbert D.; and Ashton, Robert, to Massey-Ferguson Industries Limited. Self propelled sweet corn harvester. 3,693,330, 9-26-72, Cl. 56-12.800.
Weber, Willi: *See—*
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Weber-Knapp Company: *See—*
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Webinger, George P., to Container Corporation of America. Carton with product holding feature. 3,672,559, 6-27-72, Cl. 229-39.00r.
Webley, Houston F. Vehicular anti-theft brake locking device and method. 3,698,505, 10-17-72, Cl. 180-114.000.
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Webster, Adrian D., to Spectra-Strip Corporation. Method and apparatus for punching terminal loops from multiple wire cable. 3,636,991, 1-25-72, Cl. 140-105.
Webster, Burton E. Automobile body worktable. 3,689,057, 9-5-72, Cl. 269-17.000.
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Webster Electric Company, Inc.: *See—*
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McAlvay, John C., 3,689,076.
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Webster, George R. Cable forming machine. 3,651,629, 3-28-72, Cl. 57-13.
Webster, Harold W. Clothes caddy. 3,633,802, 1-11-72, Cl. 224-45.
Webster, Joseph George; and Tuck, William Henry, to Bakelite Xylonite Limited. Method of forming an expanded polyethylene cast on a living body. 3,662,057, 5-9-72, Cl. 264-321.
Webster, Milo E., to Gillette Company, The. Aerosol valve. 3,633,798, 1-11-72, Cl. 222-402.22.
Webster, Milo E., to Gillette Company, The. Aerosol valve with safety relief device. 3,666,148, 5-30-72, Cl. 222-396.
Webster, Owen Wright, to Du Pont de Nemours, E. I., and Company. Preparation of diiminosuccinonitrile from hydrogen cyanide, chlorine and trimethylamine. 3,666,787, 5-30-72, Cl. 260-465.5.
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Webster, Pierre A. J.; and Langlois, Andrew H. A., said Langlois assor to said Webster, Pierre A. J. Containers adapted to be stacked. 3,642,169, 2-15-72, Cl. 220-97.
Webster, Ranson W., Jr.; and Jarke, Ernst H., III. Shadow box. 3,666,936, 5-30-72, Cl. 240-2.
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Webster, Robert B., to Newell Mfg. Co. Decorative picture hanger assembly. 3,685,781, 8-22-72, Cl. 248-497.000.
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Wech, Robert J. Bag machine. 3,678,812, 7-25-72, Cl. 93-20.000.
Wech, Robert J. Bag machine. 3,678,813, 7-25-72, Cl. 93-20.000.
Wechser, Paul H., to Capitol Records, Inc., mesne. Automatic record press. 3,635,622, 1-18-72, Cl. 425-116.

Wechsler, Bernard; and Wechsler, Roger. Method for manufacturing electric fuses. 3,654,696, 4-11-72, Cl. 29-623.
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Wedmore, William R., to GTE Automatic Electric Laboratories Incorporated. Electromagnetic relay operation monitor. 3,678,344, 7-18-72, Cl. 317-137.000.
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Weed, Lucretia J., to Polaroid Corporation. Novel photograic products and processes. 3,700,441, 10-24-72, Cl. 96-29.00r.
Weed, Willard N., to Boeing Company, The. Jet engine exhaust nozzle system. 3,667,680, 6-6-72, Cl. 239-265.170.
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Weedon, Gene C.; and Mumford, Robin B., to Allied Chemical Corporation. Polyamides having enhanced resistance to light degradation. 3,635,911, 1-18-72, Cl. 260-78.
Weedon, Gene C.; Lofquist, Robert A.; and Mumford, Robin B., to Allied Chemical Corporation. Light stable polyamide having an improved retention for acid dyes. 3,642,714, 2-15-72, Cl. 260-78.
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Weeks, Lloyd E., to Monsanto Company. Dental creams containing enzymes. 3,696,191, 10-3-72, Cl. 424-50.000.
Weeks, Robert Hugh, to Du Pont de Nemours, E. I., and Company. Process for purification of fluoroperhalocarbons. 3,696,156, 10-3-72, Cl. 260-653.000.
Weeks, Wyatt J., to N L Industries, Inc. Fluidized material pump. 3,704,962, 12-5-72, Cl. 417-143.000.
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Wegemund, Bernd; and Galinke, Joachim, to Henkel & Cie G.m.b.H. Adhesives or sealing agents which harden on exclusion of oxygen comprising esters of acrylic acids and dicyclopentadienols. 3,642,750, 2-15-72, Cl. 260-89.5.
Wegemund, Bernd; and Tauber, Gunter, to Henkel & Cie G.m.b.H. Adhesive composition containing a vinyl ester resin and an acrylic ester of tetrahydrofurfuryl alcohol or dihydrodicyclopentadienol. 3,660,526, 5-2-72, Cl. 260-837.
Wegemund, Bernd; and Galinke, Joachim, to Henkel & Cie G.m.b.H. Adhesives or sealing agents which harden on exclusion of oxygen. 3,661,876, 5-9-72, Cl. 260-86.1.
Wegener, Hans F., to National Steel Corporation. Apparatus for stacking units of sheet material. 3,647,045, 3-7-72, Cl. 198-41.
Wegener, Otto; Oberkobusch, Rudolf; Collin, Gerd; Zander, Maximilian; and Buffleb, Herbert, to Rutgerswerke Aktiengesellschaft. Process for obtaining aromatic hydrocarbons from oils and/or their residues, rich in aromatic hydrocarbons, and having a high cotent of unsaturated compounds. 3,654,135, 4-4-72, Cl. 208-71.
Weger, Ronald E. Radio control and repeater communication system. 3,699,443, 10-17-72, Cl. 325-4.000.
Wegerhoff, Arno; Schmitz, Franz-Josef; and Macura, Carl, to Glanzstoff AG. Textile material coated with an ammonium dialkyl phosphate antistatic agent. 3,634,117, 1-11-72, Cl. 117-138.8.
Wegerich, Anton; Arend, Wolfgang; Himmelhan, Emil; and Wittwer, Arnold, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Purification of adiponitrile. 3,657,315, 4-18-72, Cl. 260-465.8.
Weggel, Ralph W.; and Blann, William A., to Allis-Chalmers Manufacturing Company. Process and apparatus for the recovery of oil from shale by indirect heating. 3,644,193, 2-22-72, Cl. 208-11.
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Wehner, William C. Remote control mirror and control mechanism therefore. 3,659,477, 5-2-72, Cl. 74-501.
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Wehrmann, Nicholas, to Ithaca Textiles, Inc. Panty-hose. 3,678,515, 7-25-72, Cl. 2-224.00r.
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Wei, Peter H. L.; and Bell, Stanley C., to American Home Products Corporation. N-(2-benzoylphenyl)-2-pyrrolidinones. 3,644,401, 2-22-72, Cl. 260-326.5.
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Wei, Peter H. L., to American Home Products Corporation. 2-Substituted -4,5,6, 7-tetrahydrobenzothiazole-4-carboxylic acids and their alkyl esters. 3,694,450, 9-26-72, Cl. 260-294.80c.
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Weibel, Gerhard E., to Zenith Radio Corporation. Image detector including sensor matrix of field effect elements. 3,699,375, 10-17-72, Cl. 313-95.000.
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Weichbrodt, Bjorn; and Darrel, Bernard, to General Electric Company. Damage detection method and apparatus for machine elements utilizing vibrations therefrom. 3,677,072, 7-18-72, Cl. 73-67.000.
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Weiche, Hans-Joachim, to Linde Aktiengesellschaft. Method of and device for cryogenic surgery. 3,674,031, 7-4-72, Cl. 128-303.100.
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Weichet, Jaroslav; Blaha, Ludvik; Hodorova, Jarmila; Dlabac, Antonin; and Trcka, Vaclav, to Spofa, United Pharmaceutical Works. Chromanes. 3,637,759, 1-25-72, Cl. 260-345.5.
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Weidanz, Herbert, to Datagraph A.G. (Zug Schwerz), mesne. Device for selecting index cards of sheet-like form. 3,645,393, 2-29-72, Cl. 209-80.5.
Weidel, Joseph C., to Rohr Corporation. Method and apparatus for making plastic tubing. 3,679,508, 7-25-72, Cl. 156-173.000.
Weidel, Joseph C., to Rohr Industries, Inc. Quick replacement mechanism for mounting dies in press. 3,702,560, 11-14-72, Cl. 72-481.000.
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Weigel, Morton L., to Sarkes Tarzian, Inc. Automatic tape cartridge changing mechanism. 3,650,413, 3-21-72, Cl. 274-4.
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Weightman, Clive Harry, to Imperial Chemical Industries Limited. Manufacture of non-woven fibrous webs. 3,660,868, 5-9-72, Cl. 19-163.000.
Weightman, Herbert G., to Comco Supply, Inc. Apparatus for dispensing powder such as abrasive powder. 3,638,839, 2-1-72, Cl. 222-193.
Weigl, Bedrich; Janku, Milos; Prikryl, Milos; Hubeny, Jaroslav; and Hofman, Milos, to Vyzkumny Ustav Zuslechtovaci. Method of making an elastic stitch-bonded fabric. 3,643,301, 2-22-72, Cl. 28-76.
Weigl, John W., to Xerox Corporation. Imaging process. 3,649,117, 3-14-72, Cl. 355-17.
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Weigl, John W., to Xerox Corporation. Belt electrode imaging system. 3,697,409, 10-10-72, Cl. 204-300.000.
Weigl, John W., to Xerox Corporation. Displaying and printing apparatus. 3,698,807, 10-17-72, Cl. 355-45.000.
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Weil, Edward D.; and Schlichting, Hans L., to Hooker Chemical Corporation. Substituted allyl phenols. 3,639,487, 2-1-72, Cl. 260-613.
Weil, Edward D.; and Smith, Keith J., to Hooker Chemical Corporation. Thiabicyclononanes and process. 3,644,415, 2-22-72, Cl. 260-327.
Weil, Edward D.; and Smith, Keith J., to Hooker Chemical Corporation. Substituted 9-thiabicyclononenes. 3,644,416, 2-22-72, Cl. 260-327.
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Weil, Edward D., to Hooker Chemical Corporation. Polyvinyl halide thioether polymers. 3,655,618, 4-11-72, Cl. 260-47.
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Weil, Edward D., to Stauffer Chemical Company. Flame retardant polymethyl methacrylate compositions. 3,666,712, 5-30-72, Cl. 260-45.7.
Weil, Edward D.; and Linder, Jerome, to Hooker Chemical Corporation. Halogenated phenoxy compounds. 3,668,242, 6-6-72, Cl. 260-521.00a.
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Weil, Edward D., to Stauffer Chemical Company. Process for flameproofing textiles. 3,695,925, 10-3-72, Cl. 117-93.310.
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Weiler, Ernest A., to Xerox Corporation. Turbo-cloud development. 3,633,544, 1-11-72, Cl. 118-629.
Weiler, Ernest A.; and Hudson, Fredrick W., to Xerox Corporation. Electroded development device. 3,638,611, 2-1-72, Cl. 118-637. .
Weiler, Ernest A., to Xerox Corporation. Two step orbital pad development. 3,670,701, 6-20-72, Cl. 118-637.000.
Weiler, Ernest A. H., to Xerox Corporation. Fur brush developing apparatus. 3,636,924, 1-25-72, Cl. 118-629.
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Weimer, Charles L.; and Fouse, Samuel S., to Westinghouse Electric Corporation. Plug-in bus duct with heat dissipation means. 3,683,313, 8-8-72, Cl. 339-22.00b.
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Weimer, Paul Kessler, to RCA Corporation. Image sensor array in which each element employs two phototransistors one of which stores charge. 3,660,667, 5-2-72, Cl. 250-209.
Weimer, Paul Kessler, to RCA Corporation. Decoders and coupling circuits for solid state video pickup. 3,676,590, 7-11-72, Cl. 178-7.100.
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Weimer, Paul Kessler, to RCA Corporation. Signal transfer system for panel type image sensor. 3,696,250, 10-3-72, Cl. 250-220.0mx.
Weimholt, James E., to United States of America, Navy. Device for rapidly mixing and agitating chemicals in sealed containers. 3,661,083, 5-9-72, Cl. 102-6.000.
Weinand, Louis H., to General Motors Corporation. Method of making a mold for bidirectional hydrodynamic shaft seals. 3,656,227, 4-18-72, Cl. 29-530.
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Weiss, Harvey I. Extendible lighting fixture. 3,673,402, 6-27-72, Cl. 240-51.11r.
Weiss, Hubert L. Hinge structure for electric power distribution box or the like. 3,641,623, 2-15-72, Cl. 16-149.
Weiss, Hugo, to Compur-Werk Gesellschaft mit beschrankter Haftung. Photographic shutter. 3,683,778, 8-15-72, Cl. 95-60.000.
Weiss, Irving F., to ECP Manufacturing Co. Wireway structure. 3,705,949, 12-12-72, Cl. 174-101.000.
Weiss, Irwin K.: *See—*
Keppel, Charles M.; and Weiss, Irwin K., 3,680,883.
Weiss, John M.: *See—*

Youngblood, Douglas J.; and Weiss, John M., 3,689,402.
Weiss, Kurt, to Sulzer Brothers Limited. Wet cylinder liner for piston-type internal combustion engines. 3,661,135, 5-9-72, Cl. 123-193.
Weiss, Leopold. Exhaust noise silencer. 3,690,406, 9-12-72, Cl. 181-36.00b.
Weiss, LeRoy. Adjustable pallet. 3,695,187, 10-3-72, Cl. 108-54.000.
Weiss, Lowell Warner. Nut crimping tool. 3,653,802, 4-4-72, Cl. 29-200.
Weiss, Marcel. Hand wrestling exercise apparatus. 3,662,602, 5-16-72, Cl. 73-381.
Weiss, Margaret Rozman, to Miles Laboratories, Inc. Immunological reagent and process for making same. 3,641,235, 2-8-72, Cl. 424-8.
Weiss, Martin. Selective button holding attachment for sewing machines. 3,693,560, 9-26-72, Cl. 112-114.000.
Weiss, Martin Joseph: *See—*
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Remers, William Alan; and Weiss, Martin Joseph, 3,654,303.
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Weiss, Paul C., to Ambac Industries Incorporated. Material discharge control apparatus. 3,677,540, 7-18-72, Cl. 222-23.000.
Weiss, Paul C., to Ambac Industries Incorporated. Vehicular material spreader control apparatus. 3,679,098, 7-25-72, Cl. 222-23.000.
Weiss, Richard: *See—*
Weiss, Bruno; and Weiss, Richard, 3,651,650.
Weiss, Richard W.: *See—*
Thompson, Quentin E.; Reid, Stanley L.; and Weiss, Richard W., 3,684,711.
Weiss, Robert L.: *See—*
Watts, Robert Z.; and Weiss, Robert L., 3,696,341.
Weiss, Robert O.; Nikitopoulos, Robert A.; and Gunther, Phillip B., to Mallory, P. R., & Co., Inc. Method of forming mercuric oxide shell on carbon particles. 3,698,959, 10-17-72, Cl. 136-137.000.
Weiss, Shirley I.; deceased (by Albert, Joel M.; executor). Annular cutting blades. 3,640,027, 2-8-72, Cl. 51-206.
Weiss, Sidney Matthew. Combination bed sheet and pillow case. 3,638,251, 2-1-72, Cl. 5-334.
Weiss, Sol. Device for performing a tracheostomy. 3,688,773, 9-5-72, Cl. 128-305.000.
Weiss, Stanley Marian. Cultivating implements. 3,690,385, 9-12-72, Cl. 172-604.000.
Weiss, Viktor, to Osterreichisch-Amerikanische Magnesit Aktiengesellschaft. Mechanical classifier. 3,645,397, 2-29-72, Cl. 209-464.
Weiss, Viktor, to Oesterreichisch-Amerikanische Magnesit A.G. Centrifugal force separator or classifier. 3,687,286, 8-29-72, Cl. 209-211.000.
Weiss, Walter Ira: *See—*
Waaben, Sigurd Gunther; and Weiss, Walter Ira, 3,701,119.
Weissbach, Peter: *See—*
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Weissbein, Leonard; and O'Brien, Samuel James, to American Cyanamid Company. Attenuation of thermal radiation with phototropic dyes. 3,679,351, 7-25-72, Cl. 8-50.000.
Weissberg, Ernest. Emergency evacuation means for ski chairlifts. 3,674,111, 7-4-72, Cl. 182-72.000.
Weisse, Peter: *See—*
Dietrich, Hans; and Weisse, Peter, 3,631,594.
Weissel, Oskar: *See—*
Tacke, Peter; Binsack, Rudolf; and Weissel, Oskar, 3,673,123.
Weisselberg, Edward B.; Worden, George M., Sr.; Lamp, William F.; and Lane, Alexander M., to Wyssmont Company, Inc. Nondusting, high temperature dryer. 3,681,855, 8-8-72, Cl. 34-173.000.
Weissenberg, Bruno, to Wood Industries, Inc., mesne. Indexing fixture. 3,638,527, 2-1-72, Cl. 90-57.
Weissenburger, Helmut Wilhelm Otto, to Koninklijke Nederlandsche Gist-en Spiritusfabriek N.V. Imino compounds of penicillins and silyl esters thereof. 3,676,429, 7-11-72, Cl. 260-239.100.
Weissenburger, Helmut Wilhelm Otto; deceased (by Weissenburger, Ludmilla, nee Lubimowa; administrator). Process for preparing penicillin derivatives. 3,699,096, 10-17-72, Cl. 260-239.100.
Weissenburger, Ludmilla, nee Lubimowa: *See—*
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Weissenfels, Franz: *See—*
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Weisser, Lee. Flood cell apparatus. 3,683,945, 8-15-72, Cl. 134-68.000.
Weisser, Wolfgang, to Siemens Aktiengesellschaft. Buffer system for static transverters. 3,705,340, 12-5-72, Cl. 321-2.000.
Weissermel, Klaus; and Kern, Rudolf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Thermoplastic moulding compositions on the basis of saturated polyesters. 3,632,402, 1-4-72, Cl. 117-100.
Weissermel, Klaus; Uebe, Rudolf; and Herwig, Walter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Thermoplastic molding compositions based on saturated polyesters. 3,652,484, 3-28-72, Cl. 260-29.15.
Weissermel, Klaus; Uebe, Rudolf; and Pfister, Horst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Thermoplastic molding compositions containing polyesters. 3,673,144, 6-27-72, Cl. 260-30.40r.
Weisshaar, Erich, to Transistor AG. Semiconductor element having at least one control electrode. 3,644,799, 2-22-72, Cl. 317-235.
Weisshuhn, Peter: *See—*
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Weissmahr, Joseph A., to Wertex Anstalt. Particle-containing elastic polyurethane layer. 3,663,469, 5-16-72, Cl. 260-2.5.
Weissman, Bernard. Dental anchor. 3,675,328, 7-11-72, Cl. 32-15.000.
Weissman, Bernard. Dental anchoring pin and head therefor. 3,675,329, 7-11-72, Cl. 32-15.000.
Weissman, Bernard. Method of removing pulp from the pulp cavity of a natural tooth and apparatus for same. 3,704,520, 12-5-72, Cl. 32-57.000.
Weissman, Joel, to Ketcham & McDougall, Inc. Cube calendar. 3,670,436, 6-20-72, Cl. 40-107.000.
Weissman, Joel J. Blank for constructing solid forms. 3,666,607, 5-30-72, Cl. 161-44.000.
Weissmann, Jean: *See—*
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Weissohn, Karl-Helmut, to Matthias Ludwig Industrieofenbau GmbH. Furnace installation with commutative control system. 3,633,820, 1-11-72, Cl. 236-46.
Weist, Edward Landis: *See—*
Demler, Henry William, Sr.; and Weist, Edward Landis, 3,640,552.
Weist, Martin; and Busing, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Circuit arrangement for indicating and automatically eliminating short-circuits in electrolysis cells. 3,644,190, 2-22-72, Cl. 204-228.
Weiste, Heinrich: *See—*
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Weiste, Heinrich. Apparatus for distributing and spreading material. 3,631,825, 1-4-72, Cl. 111-11.
Weiste, Helmut: *See—*
Schumacher, Ferdinand; Weiste, Heinrich; and Weiste, Helmut, 3,656,661.
Weistrop, Elizabeth N. Hydraulically actuated children's toy. 3,665,638, 5-30-72, Cl. 46-41.000.
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Weisz, Michel: *See—*
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Weitala, Larry R.; and Anderson, Ronald G., to Allis-Chalmers Manufacturing Company. Apparatus for stripping insulation from stranded electrical cable. 3,636,799, 1-25-72, Cl. 81-9.51.
Weith, James D., to Universal Oil Products Company. LPG and high purity hydrogen recovery process. 3,706,655, 12-19-72, Cl. 208-82.000.
Weith, James D., to Universal Oil Products Company. LPG and high purity hydrogen recovery process. 3,706,656, 12-19-72, Cl. 208-82.000.
Weitner, Eva, nee Vari: *See—*
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Weitz, Harry, to Boxton-Beel, Inc. Annotator for microfilm reader. 3,659,933, 5-2-72, Cl. 353-44.
Weitz, Otto, to Troster, A. J. Sowing device with pneumatic seed separator. 3,693,833, 9-26-72, Cl. 221-211.000.
Weitze, Artur: *See—*
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Weitzsch, Fritz; and Walther, Erich Eduard, to U.S. Philips Corporation. Demodulator circuit for color television receiver. 3,688,019, 8-29-72, Cl. 178-5.4he.
Weitzsch, Fritz, to U.S. Philips Corporation. Circuit arrangement for colour point adjustment. 3,689,689, 9-5-72, Cl. 178-5.20r.

Weizenbach, Bauke: *See—*
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Weizenkorn, Horst-Heinrich: *See—*
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Welbourn, Dale K. Magnetically actuatable projectile and target game. 3,653,662, 4-4-72, Cl. 273-95.
Welbourn, Dale K. Catapult game including striking mallet and receiver. 3,669,451, 6-13-72, Cl. 273-95.00r.
Welbourn, Donald Burkewood; Smith, James Derek; and Buckley, Bruce Robert Ashworth, to C.A.V. Limited. Lapping, honing or the like machines. 3,702,043, 11-7-72, Cl. 51-92.00r.
Welch Allyn, Inc.: *See—*
Moore, William C.; and Pilgrim, William S., 3,698,387.
Welch, Archibald H., to Converters Incorporated. Method and apparatus for fan-folded stacking. 3,674,254, 7-4-72, Cl. 270-79.000.
Welch, Clark M.: *See—*
Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., 3,698,857.
Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., 3,702,754.
Welch, Dean E.; and Baron, Robert R., to Salsbury Laboratories. Nitro-trifluoromethylbenzamides and veterinary compositions containing the same. 3,632,777, 1-4-72, Cl. 424-324.
Welch, Dean E.; Nakaue, Harry S.; and Vatne, Robert D., to Salsbury Laboratories. Alpha, alpha, alpha-trifluoro-6-substituted-5-nitro-5-toluic acid, 5'-nitrofurfurylidene hydrazide compounds. 3,642,784, 2-15-72, Cl. 260-240.
Welch, Dean E.; and Baron, Robert Richard, to Salsbury Laboratories. Nitro-trifluoromethyl-benzanilides. 3,689,556, 9-5-72, Cl. 260-558.00p.
Welch, Donald C., to Trane Company, The. Double fin cooling coil with condensate director. 3,703,815, 11-28-72, Cl. 62-290.000.
Welch, Floyd T.: *See—*
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Welch, Joseph T., to Becton, Dickinson and Company. Self-contained disposable syringe. 3,677,245, 7-18-72, Cl. 128-218.00s.
Welch, Louis S., to Hall, M. Lewis, Sr. Water conditioning method and apparatus. 3,653,182, 4-4-72, Cl. 55-53.
Welch, Nathan E.: *See—*
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Welch, Paul E.: *See—*
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Welch, Philip Craig, to Modular Systems, Inc. Coupling member. 3,645,162, 2-29-72, Cl. 85-4.
Welch, Phillip Craig, to Modular Systems, Inc. Booth construction. 3,634,983, 1-18-72, Cl. 52-36.
Welch, Ralph A.: *See—*
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Welch, Robert E.; Kelly, Raymond E.; and Ward, Russell S., to United States of America, Navy. Docking facility and method. 3,631,830, 1-4-72, Cl. 114-50.
Welch, Robert H.; and Boyce, Kenneth D., to Diversified Electronics Co., Inc. Electronic counterand storage apparatus. 3,683,159, 8-8-72, Cl. 235-92.0ea.
Welch, Robert W., Jr.; Bolton, George H.; Oliver, John P.; and Wedel, Alfred W., said Welch and said Bolton assors. to Columbia Gas System Service Corporation and said Oliver and said Weldel assors. to Cameron Iron Works, Inc. Underwater pipeline connectio. 3,658,366, 4-25-72, Cl. 285-24.
Welch, Stanley B.; and Dills, Raymond L., to General Electric Company. Induction surface heating unit system. 3,684,853, 8-15-72, Cl. 219-10.490.
Welch, Vergil B., Jr., to Grace, W. R., & Co. Magnetically securable printing plate. 3,670,646, 6-20-72, Cl. 101-382.0mv.
Welch, William Arthur; and Kohler, Fritz Peter. Aspirin-charcoal compositions. 3,642,986, 2-15-72, Cl. 424-125.
Welch, William H.: *See—*
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Welch, Wilson A.; and Medcalf, William A., to United States of America, National Aeronautics and Space Administration. Gas filter mounting structure. 3,650,095, 3-21-72, Cl. 55-493.
Welcher, Richard Parke, to American Cyanamid Company. Production of aliphatic 1,2-bisthiocyanates. 3,644,463, 2-22-72, Cl. 260-454.
Welcher, Richard Parke, to American Cyanamid Company. Production of thiocyanogen. 3,649,221, 3-14-72, Cl. 23-357.
Welcker, Clyde J.; and Welcker, Roland, to Welcker Corporation, The. Shrimp processing apparatus. 3,639,946, 2-8-72, Cl. 17-71.
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Weld, Foster E.; Lassell, Robert W.; and McLeod, Robert B., to Gulf & Western Systems Company, mesne. Combined telephone-telegraphy system. 3,673,329, 6-27-72, Cl. 179-3.000.
Weld Tooling Corporation: *See—*
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Weldel, Helmut: *See—*
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Welden, David P. Masonry saw. 3,656,468, 4-18-72, Cl. 125-13.
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Zelnick, Seymour; and Wildmoser, Martin Michael, 3,667,598.
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Welford, Gordon D.; and Kelley, Buster E., to United States of America, Army. Missile proportional navigation system using fixed seeker. 3,706,429, 12-19-72, Cl. 244-3.190.
Welford, Walter T., to Harriers Electronics Corporation. Facetted correction lens for minimizing keystoning of off-axis projectors. 3,634,617, 1-11-72, Cl. 178-5.4.
Welk, Horace B., Jr., to United States of America, Navy. Fluidic pressure indicator. 3,665,767, 5-30-72, Cl. 73-407.00r.
Welke, Helmut: *See—*
Hoyer, Manfred; and Welke, Helmut, 3,682,019.
Welker, Harry Logue, Jr.; and Burton, Michael Blaker. Automatics slush dispensing machine. 3,638,392, 2-1-72, Cl. 53-123.
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Grey, Donald M.; and Welker, Jerry W., 3,700,119.
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Welker, Robert H.; and Halmbrecht, William L., to Libbey-Owens-Ford Company. Sheet edging apparatus. 3,673,737, 7-4-72, Cl. 51-38.000.
Wella Aktiengesellschaft: *See—*
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Wellan, Wayne G.; Converse, John O.; and Swanson, Arden E., to Hart-Carter Company. Modular bag-type filter for gases. 3,680,285, 8-1-72, Cl. 55-302.000.
Wellander, Sven Arvid Emanuel, to Ystads AB Smide & Svets. Concrete element casting apparatus. 3,704,852, 12-5-72, Cl. 249-50.000.
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Elion, Gertrude B.; and Strelitz, Robert A., 3,666,856.
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Wellekens, John F. Locks. 3,659,444, 5-2-72, Cl. 70-360.
Wellendorf, Erwin W. Fold-up implement. 3,643,742, 2-22-72, Cl. 172-316.
Wellendorf, Klaus: *See—*
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Weller, Carl E.; and Solt, Wilbur A., to Cooper Industries, Inc. Thermomagnetic soldering tip assembly and method. 3,662,152, 5-9-72, Cl. 219-241.
Weller, Charles E., to Shell Oil Company. Directional filtering of seismic data. 3,689,873, 9-5-72, Cl. 340-15.5td.
Weller, David Reis, to Bell Telephone Laboratories, Incorporated. Sample-and-hold circuit. 3,675,135, 7-4-72, Cl. 328-151.000.
Weller, David Reis, to Bell Telephone Laboratories, Incorporated. Isolating power supply. 3,703,678, 11-21-72, Cl. 323-19.000.
Weller, Frank C.: *See—*
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Weller, Frank C., to Interlake Steel Corporation. Strapping machine. 3,636,861, 1-25-72, Cl. 100-4.
Weller, Frank C., to Interlake, Inc. Strapping machine. 3,672,295, 6-27-72, Cl. 100-4.000.
Weller, Richard D., to United States of America, Navy. Process for the preparation of sintered zinc powder battery electrodes. 3,663,297, 5-16-72, Cl. 136-30.
Weller, Wilhelm, to Messrs. Transporttechnik GmbH. Conveyor for shopping carts. 3,655,013, 4-11-72, Cl. 186-1.
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Wellhausen, Hans; and Licht, Georg S., to Fernseh G.m.b.H. Video cross bar distributor. 3,654,566, 4-4-72, Cl. 330-124.
Wellhausen, Heinz, to Blaupunkt-Werke GmbH. Tuning system for communication receivers storing predetermined tuning positions within the receiver frequency band. 3,671,870, 6-20-72, Cl. 325-470.000.
Welling, Leroy U. C., to General Electric Company. Numerical fine-coarse positioning control system. 3,686,547, 8-22-72, Cl. 318-594.000.
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Wellings, Ian, to Du Pont de Nemours, E. I., and Company. 2-Amino-4,5,6,7-tetrahydro-4,7-ethanothieno [2,3-b]pyridines and pharmaceutically acceptable salts thereof. 3,644,379, 2-22-72, Cl. 260-294.8.
Wellings, Ian, to Du Pont de Nemours, E. I., and Company. Certain 5,6,7,8-tetrahydro-5,8-ethano-pyridino [2,3-b]-thieno[5,4-d] pyrimidines. 3,681,351, 8-1-72, Cl. 260-256.50r.
Wellington, Charles K.; Jung, Dietrich; and Kwasniewski, George A., to Viatron Computer Systems Corporation. Tape reel drive turntable. 3,666,193, 5-30-72, Cl. 242-68.3.
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Wellman, James W., Jr. Magnetic clutch coupling for monitoring shaft rotation. 3,675,170, 7-4-72, Cl. 335-207.000.
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Terrana, Jack D.; and Miller, Leo A., 3,687,625.
Wellnitz, Gregory L., to Universal Oil Products Company. Ashtray with use indicator. 3,640,286, 2-8-72, Cl. 131-235.
Wellnitz, Jerry N.; and Dummer, Richard S., to Rohr Industries, Inc. Infrared concentrating emitter. 3,702,391, 11-7-72, Cl. 219-553.000.
Wells, Alton R. Thermostat or the like having twisted bimetal strip therein. 3,656,080, 4-11-72, Cl. 337-111.
Wells, Bernard L.: *See—*
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Wells, Charles Don. Document recording apparatus. 3,642,369, 2-15-72, Cl. 355-64.
Wells, David R.: *See—*
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Wells, Donald R., to GCOptronics, Inc. Method of flaw detection using internal heating. 3,681,970, 8-8-72, Cl. 73-15.400.
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Larson, Raymond B.; and Wogoman, Frank W., 3,650,450.
Wells, Frank D.: *See—*
Honey, Francis J.; and Wells, Frank D., 3,689,917.
Wells, Frank Herbert; and Davey, Cyril Norman; deceased (by Davey, Catherine Margaret; administratrix), to United Kingdom Atomic Energy Authority. Apparatus for measuring the flow velocity of fluids. 3,678,731, 7-25-72, Cl. 73-194.00a.
Wells, Frank Herbert; and Martin, Roger, to United Kingdom Atomic Energy Authority. Apparatus for measuring thickness. 3,690,154, 9-12-72, Cl. 73-67.900.
Wells, Frederic E., to United States of America, National Aeronautics and Space Administration. Remote control manipulator for zero gravity environment. 3,631,737, 1-4-72, Cl. 74-469.
Wells, George H.; and Persons, Perry B., to Technology Marketing, Incorporated. Bipolar current switching system. 3,660,829, 5-2-72, Cl. 340-174.0tb.
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Wells, Henry; and Colclough, Williim James, to United Kingdom Atomic Energy Authority. Treatment of fibrous materials. 3,657,082, 4-18-72, Cl. 204-130.
Wells, Howard E. Continuous molding apparatus. 3,700,368, 10-24-72, Cl. 425-115.000.
Wells, Jan R., to Wells, W. F., and Sons, Inc. Sensor for determining band saw blade deflection. 3,680,417, 8-1-72, Cl. 83-74.000.
Wells, Joe S.; deceased (by Wells, Mary Lou; executrix). Tool depth control adjustment. 3,664,756, 5-23-72, Cl. 408-202.
Wells, John B.: *See—*
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Wells, John B., to Xerox Corporation. Image density control in photoelectrophoretic imaging. 3,645,874, 2-29-72, Cl. 204-181.
Wells, John B., to Xerox Corporation. Photoelectrophoretic imaging method employing a halogen containing suspension. 3,647,660, 3-7-72, Cl. 204-181.
Wells, John L., to Explosive Technology, Inc. Safe-armed explosive initiation device. 3,657,958, 4-25-72, Cl. 89-1.
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Wells Lamont Corporation, mesne: *See—*
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Wells Manufacturing Company: *See—*
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Wells, Milton K.; and Hedberg, Arthur S., to Wells Manufacturing Company. Mold assembly for valve lifters. 3,672,441, 6-27-72, Cl. 164-351.000.
Wells, Robert A.; and Strobe, Carl J., to SMW Atlanta, Inc., mesne. Easy-opening containers. 3,674,172, 7-4-72, Cl. 220-54.000.
Wells, Robert C.: *See—*
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Wells, Robert R., to Northrop Corporation. Thin-film diffusion brazing of nickel and nickel base alloys. 3,675,311, 7-11-72, Cl. 29-498.000.
Wells, Robert R., to Staco-Switch, Inc. Linear solenoid and inverter. 3,697,858, 10-10-72, Cl. 321-18.000.
Wells, Rodney L.; Ulmer, Harry E.; and Mason, Paul J., to Allied Chemical Corporation. Substituted s-triazine formaldehyde adducts useful as herbicides. 3,697,249, 10-10-72, Cl. 71-93.000.
Wells, Rodney W. S.: *See—*
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Wells, Samuel G., to Teledyne, Inc. Folding bed arrangement. 3,673,618, 7-4-72, Cl. 5-164.000.
Wells, Sylvan O., to Kenwal Machine Company, Inc. Double head notching machine. 3,664,394, 5-23-72, Cl. 144-133.
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Wells, Wallace N. Lure retreiver. 3,693,277, 9-26-72, Cl. 43-17.200.
Wells, Wallace Ogden: *See—*
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Wells, Wallace Ogden, to Texas Instruments, Incorporated. Slice conveyor furnace. 3,638,927, 2-1-72, Cl. 263-6.
Wells, Warren W., to United States of America, Army. Extractor and bolt mechanism for firearm firing caseless ammunition. 3,641,692, 2-15-72, Cl. 42-25.

Wells, Willard H., to Tetra Tech, Inc. Holographic imaging system using crossed linear arrays of energy sources and sensors. 3,685,051, 8o15-72, Cl. 343-17.000.
Welman, William L.: *See—*
Fenner, John A.; and Welman, William L., 3,651,567.
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Welsch, Bernhard J.; and Schafer, James A., to Western Gear Corporation. Taper tension web winding machine. 3,701,493, 10-31-72, Cl. 242-75.530.
Welsch, George A., Jr.: *See—*
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Welsh, Clarence E.: *See—*
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Welsh, David Martin, to Canadian Safety Fuse Company Limited. Manufacture of detonating fuse cord. 3,698,280, 10-17-72, Cl. 86-1.00r.
Welsh, James W.; and Alder, Fred, to Standard Motor Products, Inc. Heating device for electrical actuation. 3,657,518, 4-18-72, Cl. 219-536.000.
Welsh, Jay Y., to Diamond Shamrock Corporation. Process for making anhydrous metal acetates. 3,637,776, 1-25-72, Cl. 260-429.
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Welsh, Robert Louis, to Omark Industries, Inc. Electrical utility box. 3,673,310, 6-27-72, Cl. 174-58.000.
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Welstead, William John, Jr.; and Helsley, Grover Cleveland. 1-(Omega-substituted-alkyl)-2-methylbenzimidazoles. 3,634,441, 1-11-72, Cl. 260-296.
Welstead, William John, Jr., to Robins, A. H., Company, Incorporated. 3-(Omega-substituted alkyl)-indoles. 3,642,803, 2-15-72, Cl. 260-294.7.
Welstead, William John, Jr., to Robins, A. H., Company, Incorporated. Alkyl 1,1a,2,6b-tetrahydrocycloprop[b] indole 1-carboxylates and acids. 3,654,304, 4-4-72, Cl. 260-326.3.
Welstead, William John, Jr., to Robins, A. H., Company, Incorporated. 1-(4-Phenyl-1-piperizinyl methyl) cyclopropa[a] naphthalenes and cycloprop[a]indenes. 3,666,761, 5-30-72, Cl. 260-268.0tr.
Welter, Clarence J.; and Ristic, Miodrag, to Diamond Laboratories, Inc. Anaplasmosis vaccines. 3,674,860, 7-4-72, Cl. 424-88.
Welter, Clarence J., to Diamond Laboratories, Inc. Transmissible gastroenteritis vaccines and methods of producing the same. 3,704,203, 11-28-72, Cl. 195-1.300.
Welter, Gary D., to Omark Industries, Inc. Apparatus for continuous electroplating. 3,649,507, 3-14-72, Cl. 204-202.
Welter, Jeff R., to Hanna, Daniel C. Brush construction. 3,694,844, 10-3-72, Cl. 15-182.000.
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Welter, Matthew I. Board game apparatus. 3,684,287, 8-15-72, Cl. 273-131.00k.
Welther, Robert S., to TRW Inc. Spacecraft for deploying multiple objects. 3,652,042, 3-28-72, Cl. 244-1.
Welton, Derek Edwin, to Waso Limited. Combined abrading, scraping and poking implement. 3,670,459, 6-20-72, Cl. 51-181.00r.
Weltronic Company: *See—*
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Welty, Albert B.: *See—*
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Welty, Albert B., Jr., to Esso Research and Engineering Company. Process for decomposing ammonium sulfate into ammonium bisulfate and ammonia. 3,674,427, 7-4-72, Cl. 23-119.000.
Welty, Albert B., Jr. Sulfate control in ammonia flue gas desulfurization. 3,676,059, 7-11-72, Cl. 23-2.000.
Welty, Joseph M.; Shiota, Philip; and Murray, Roger W., to Teledyne, Inc. Flip chip integrated circuit and method therefor. 3,636,619, 1-25-72, Cl. 29-591.
Welty, Lloyd G. Frictional self-draining structure. 3,690,227, 9-12-72, Cl. 94-33.000.
Welty, Richard O.: *See—*
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Pey, Walter Arnold, 3,680,013.
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Welz, Rudolf. Socket wrenches. 3,661,041, 5-9-72, Cl. 81-98.
Welz, Rudolf. Attachment for rakes. 3,678,670, 7-25-72, Cl. 56-400.140.
Welz, Rudolf. Emergency trackage for vehicle wheels. 3,701,474, 10-31-72, Cl. 238-14.000.
Welze, Gerhard: *See—*
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Weman, Per Olaf, to Sigmatex AG. Fastening for the loop of a three-point safety belt in motor vehicles. 3,698,048, 10-17-72, Cl. 24-241.00p.
Wemmers, Anton: *See—*
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Wen, Cheng Paul, to RCA Corporation. Gyromagnetic isolator wherein even mode components are converted to odd mode components by biased ferrite. 3,646,486, 2-29-72, Cl. 333-24.2.
Wen, Cheng Paul, to RCA Corporation. Symmetrical trough waveguide antenna array. 3,653,054, 3-28-72, Cl. 343-772.
Wen, Cheng Paul, to RCA Corporation. Microwave hybrid comprising trough waveguide and balanced mixer utilizing same. 3,654,556, 4-4-72, Cl. 325-446.
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Wendel, Samuel R.: *See—*
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Wendel, Samuel R., to Dow Corning Corporation. Method of preparing silyl alcohols. 3,691,222, 9-12-72, Cl. 260-448.0ze.
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Wendler, Charles F.; and Baum, Charles S., to Permanence Corporation. Heat resistant high strength composite structure of hard metal particles in a matrix, and methods of making the same. 3,684,497, 8-15-72, Cl. 75-203.000.
Wendler, Gerhard Hermann; and Minet, Gunther Heinz, to Teroson Werke G.m.b.H. Film for protecting a vehicle bottom plate. 3,660,347, 5-2-72, Cl. 117-8.
Wendler, Guenther, to Baumueller, Adam, GmbH Fabrik fur Elektrotechnik. Automatically adjustable single disc brake for motors. 3,665,231, 5-23-72, Cl. 310-77.
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Pollak, Peter I.; Wendler, Norman L.; and Christensen, Burton G., 3,652,739.
Wendorf, Clarence F.; and Hicks, W Glen. Refuse disposal container and mounting device. 3,685,852, 8-22-72, Cl. 280-79.200.
Wendricks, Roland Norbert, to American Can Company. Extruder mixing screw. 3,676,034, 7-11-72, Cl. 425-208.000.

Wendt, Gerhard R.: *See—*
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Wendt, Gerhard R.; Ledig, Kurt W.; and Teller, Daniel M., to American Home Products Corporation. Bis-amidinohydrazones of steroidal diones. 3,644,436, 2-22-72, Cl. 260-397.

Wendt, Gerhard R.; and Oliver, Donald W., to American Home Products Corporation. 3-Amino-tetrahydro thiophene-3 carboxylic acids and 4-aminotetrahydro thiopyran-4 carboxylic acids. 3,707,479, 12-26-72, Cl. 260-327.0th.

Wendt, Heinz: *See—*
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Wendt, John A.; and Rosauer, Peter J., to Champion Spark Plug Company, mesne. Ultrasonic encephalographic system. 3,681,977, 8-8-72, Cl. 73-67.900.

Wendt, John S., Jr. Centrifugal separator with means controlling flow. 3,674,206, 7-4-72, Cl. 233-19.00a.

Wendt, Rudolf, to Lumoprint Zindler KG. Silver salt diffusions copying method. 3,637,376, 1-25-72, Cl. 96-29.

Wener, Harry, to International Education Sewing Manual, Inc. Multiple sewing machine table. 3,652,143, 3-28-72, Cl. 312-27.

Wenger, Helmut: *See—*
Jager, Georg; Wenger, Helmut; and Zangl, Karl, 3,693,253.

Wenger, Louis. Hay baling machine. 3,665,690, 5-30-72, Cl. 56-341.

Wenger, Markus: *See—*
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Wenger, Martin S., Jr.: *See—*
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Wennberg, Olov Carl Gustav. Device for feeding material out of silos or from stacks. 3,648,860, 3-14-72, Cl. 214-17.

Wenner, John W., to International Business Machines Corporation. Single reel magnetic tape unit. 3,666,202, 5-30-72, Cl. 242-182.000.

Wenner, Wilbert M.: *See—*
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Wennerberg, Arnold N.; and Bukvich, John T., to Standard Oil Company. Production of active carbons from aromatic carboxylic acids, petroleum coke acid or from porous carbons. 3,642,657, 2-15-72, Cl. 252-425.

Wennerberg, Arnold N., to Standard Oil Company. Hydrodesulfurization with hydrogen transfer catalyst and an alkaline composition. 3,694,350, 9-26-72, Cl. 208-212.0.

Wennerberg, Gunnar. Tape guide for winding machines. 3,662,968, 5-16-72, Cl. 242-76.000.

Wennerblom, Bengt Axel: *See—*
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Wennergren, Johan Jakob; and Samuelsson, Lars-Gunnar. Process for moisture stabilizing cellulosic sheet material using a polyoxyalkylene glycol and a polyoxyethylene-oxypropylene glycol block polymer. 3,674,632, 7-4-72, Cl. 162-168.000.

Wenninger, Johann: *See—*
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Wennstrom, Elof Algot, to AB Jarnforadling. Pile connecting devices. 3,650,553, 3-21-72, Cl. 287-130.

Wenrich, Carl M.; and Downs, Bernard W., to Weld-Record Corporation. Stud welding gun method. 3,696,227, 10-3-72, Cl. 219-99.000.

Wenschhof, David E.: *See—*
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Wensing, Kenneth L. Two-way choker hook. 3,683,465, 8-15-72, Cl. 24-123.00a.

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Wensink, Bernardus Leonardus; and Cense, Adriaan, to U.S. Philips Corporation. Semiconductor device. 3,676,714, 7-11-72, Cl. 307-303.000.

Wenstrom, Richard T.; and Gorton, Thomas S., Jr., to Gorton, Slade, & Co., Inc. Apparatus for eviscerating scallaps. 3,662,432, 5-16-72, Cl. 17-53.

Wenstrom, Richard T.; and Gorton, Thomas S., Jr., to Slade Gorton & Co., Inc. Method of eviscerating shellfish. 3,665,554, 5-30-72, Cl. 17-45.

Wenstrom, Richard T.; and Gorton, Thomas S., Jr., to Slade Gorton & Co., Inc. Apparatus for shucking shellfish. 3,683,458, 8-15-72, Cl. 17-74.000.

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Wentz, Edward C.: *See—*
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Wenz, Herbert, to Pfaff, G. M., AG, Firma. Device on sewing machines for trimming material. 3,691,970, 9-19-72, Cl. 112-127.000.

Wenzel, Alfred Johannes; and Hantel, Alwin, to Massey-Ferguson G.m.b.H. Apparatus for mounting an accessory on a combine. 3,690,359, 9-12-72, Cl. 146-123.000.

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Wenzel, Franz; and Riemann, Karl Heinz, to Rohm Gesellschaft mit beschrankter Haftung. Esterification of methacrylic acid. 3,639,460, 2-1-72, Cl. 260-486.

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Wenzel, Hermann, to Waagner-Biro Aktiengesellschaft. Apparatus for filling fluids into vehicle containers. 3,664,386, 5-23-72, Cl. 141-100.

Wenzel, Kurt, to Telephon- und Telegraphen-Fabriks A.G. Electrical element laminated in structure. 3,675,086, 7-4-72, Cl. 317-230.000.

Wenzel, Werner; and Schenck, Hermann, to Rheinische Braunkohlewerke AG. Method of gasifying water-containing coal. 3,647,379, 3-7-72, Cl. 48-202.

Wenzel, Werner; and Penning, Hans, to Rheinische Braunkohlenwerke AG. Fluidizing bed coking method of brown coal. 3,671,402, 6-20-72, Cl. 201-15.000.

Wenzig, Wolfgang: *See—*
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Wenzig, Wolfgang, to Siemens Aktiengesellschaft. Variable capacitance diode. 3,679,948, 7-25-72, Cl. 317-234.00r.

Wenzig, Wolfgang, to Siemens Aktiengesellschaft. Semiconductor diode with protective ring. 3,694,705, 9-26-72, Cl. 317-235.00r.

Wepfer, George R.; and Winstrom, Bertil G. Process and apparatus for submerged arc welding. 3,684,855, 8-15-72, Cl. 219-73.000.

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Weppner, Benjamin H.; Lefebvre, Leo P.; and Miller, Victor R., to Mennen-Greatbatch Electronics, Inc. Electrically insolated signal path means for physiological monitor. 3,690,313, 9-12-72, Cl. 128-2.06b.

Wer Bell, Mitchell L., III, to Adair, Michael H. and Reeves, Rosser S., III. Silencers for firearms, internal combustion engines, or the like. 3,667,570, 6-6-72, Cl. 181-36.

Werbel, Leslie M., to Parke, Davis & Company. Certain 5-nitro-4-thiazolin-2-ylideneurea compounds. 3,637,725, 1-25-72, Cl. 260-306.7.

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Werdehausen, Achim; Heins, Arnold; and Dohr, Manfred, to Henkel & Cie G.m.b.H. Washing, bleaching and cleansing agents containing poly-(N-acetic acid)-ethyleneimines. 3,650,962, 3-21-72, Cl. 252-102.

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Werdehausen, Achim; and Krings, Peter, to Henkel & Cie G.m.b.H. Washing, bleaching and cleansing agents containing poly-(N-tricarballylic acid)-alkyleneimines. 3,686,128, 8-22-72, Cl. 252-99.000.

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Werf Conrad en Stork Hijsch N.V.: *See—*
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Wetzel, Louis Emery, to General Telephone Company of California. Telephone line testing from remote locations. 3,636,280, 1-18-72, Cl. 179-175.3.
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Wetzel, Rolf Emil; and Janssen, Willi, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Process for producing sponge iron. 3,647,417, 3-7-72, Cl. 75-35.
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Weyman, Henry Walter. Pneumatic cylinder assemblies. 3,678,805, 7-25-72, Cl. 92-11.000.

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Wharton, Thomas P., to Menasha Corporation. Molded pallet. 3,702,100, 11-7-72, Cl. 108-58.000.

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Wheeler, Edward L., to Uniroyal, Inc. Derivatives of diphenylamine and the phenylnaphthylamines as antioxidants and as synergists with dialkyl 3,3'-thiodipropionates. 3,666,716, 5-30-72, Cl. 260-45.9.

Wheeler, Eugene F. Clamp for well pipe. 3,637,011, 1-25-72, Cl. 166-77.5.

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Wheeler, Harry L., Jr. Method and apparatus for handling compressed air. 3,653,465, 4-4-72, Cl. 184-55.
Wheeler, Harry L., Jr. Compressed air filter. 3,703,069, 11-21-72, Cl. 55-337.000.
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Wheeler, Mildred S., to McDonnell Douglas Corporation. Line replaceable unit control valve. 3,677,139, 7-18-72, Cl. 91-384.000.
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Wheeler, Robert G., to Wood Processes, Oregon Ltd. Composite board laminate. 3,661,688, 5-9-72, Cl. 161-37.
Wheeler, Robert G., to Wood Processes, Oregon Ltd. Method of forming a panel with a rough textured, printed surface. 3,669,783, 6-13-72, Cl. 156-90.000.
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Whisler, Edwin Lee, to Deere & Company. Vehicle cab and safety frame assembly. 3,690,720, 9-12-72, Cl. 296-28.00c.

Whisler, Howard E.; Shah, Bhupendra Umedchand; Jeskey, Gerald Vernon; and Bloom, Ray Albert, to Timken Roller Bearing Company, The. Apparatus for introducing molten metal into a strand casting mold. 3,703,924, 11-28-72, Cl. 164-337.000.

Whistler, Lawrence V., Jr.: *See—*
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Whistler, Lawrence V., Sr.; and Whistler, Lawrence V., Jr. Punch retainer assembly. 3,641,860, 2-15-72, Cl. 83-686.

Whistler, Roy L., to Purdue Research Foundation. Dimethyl sulfoxide-sulfur trioxide complexes. 3,699,170, 10-17-72, Cl. 260-607.00d.

Whistler, Wayne J.: *See—*
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Whistler, William T., to General Electric Company. Switch-controlled directional coupler. 3,659,227, 4-25-72, Cl. 333-7.

Whitacre, Horace E.; and White, Arthur R., to United States of America, National Aeronautics and Space Administration. Scientific experiment flexible mount. 3,662,661, 5-16-72, Cl. 95-12.500.

Whitaker, Derek. Lathe tools. 3,662,445, 5-16-72, Cl. 29-97.000.

Whitaker, Douglas C.: *See—*
Greenberg, Jacob; and Whitaker, Douglas C., 3,642,583.

Whitaker, Earl J.: *See—*
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Whitaker, Michael E., to Gullick Dobson Limited, Inc. Mine roof supports. 3,646,768, 3-7-72, Cl. 61-45.

Whitaker, Noble D., to BMI Laboratories. Method for making thermosetting resinous abrasive tools. 3,661,544, 5-9-72, Cl. 51-295.

Whitaker, Ritchie W.: *See—*
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Whitaker, Robert B.: *See—*
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Whitaker, Wiley M. Broom having a removable pivotable handle. 3,704,479, 12-5-72, Cl. 15-172.000.

Whitaker, Wiley M. Mop having a removable pivotable handle. 3,704,480, 12-5-72, Cl. 15-144.00r.

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Whitbread, Frederick John: *See—*
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Whitcomb, Newell E.: *See—*
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Whitcomb, Stuart P., to Philco-Ford Corporation. Shelf structure. 3,633,983, 1-11-72, Cl. 312-306.

White, Abram L.: *See—*
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White, Addison C.: *See—*
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White, Albert: *See—*
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White, Albert H., to Chandler Evans Inc. Integral fuel control. 3,672,163, 6-27-72, Cl. 60-39.28r.

White, Albert H., to Chandler Evans Inc. Turbine engine starting circuit. 3,686,859, 8-29-72, Cl. 60-39.14r.

White, Albert H., to Chandler Evans, Inc. Nozzle control. 3,686,860, 8-29-72, Cl. 60-39.250.

White, Allen A., to Hesston Corporation. Soybean harvesting apparatus. 3,662,525, 5-16-72, Cl. 56-2.

White, Allen A.; Garrison, Harold Keith; and Brooks, Dean P., to Hesston Corporation. Machine for loading, stacking and unloading crops. 3,691,741, 9-19-72, Cl. 56-344.000.

White, Allwyn M., to Automation Industries, Inc. Ultrasonic search unit with rolling contact. 3,636,756, 1-25-72, Cl. 73-71.5.

White, Alvin S., to Singer-General Precision, Inc. Flight path display instrument. 3,648,232, 3-7-72, Cl. 340-27.

White, Arlton H.; and Chapman, John S. Breathing assist apparatus. 3,683,655, 8-15-72, Cl. 128-30.200.

White, Arnold G.; Smith, Thomas E.; and Work, Lyall C., to Cominco Ltd. Concentration of phosphoric acid. 3,656,897, 4-18-72, Cl. 23-165.

White, Arnold George; Smith, Thomas Edward; Work, Lyall Campbell; and Miller, Willard Wallace, to Cominco Ltd. Electrothermally concentrating an aqueous electrolyte. 3,664,929, 5-23-72, Cl. 203-10.

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White, Brian Graham, to Imperial Chemical Industries Limited. Herbicidal compositions. 3,671,213, 6-20-72, Cl. 71-94.000.

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White, Charles H.: *See—*
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White, Clark Woody: *See—*
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White, Colin Graham, to Marconi Company Limited, The. Clock oscillator arrangements. 3,662,277, 5-9-72, Cl. 331-2.

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White, David R.: *See—*
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White, Donald A., to Digital Equipment Corporation. Universal bus arrangement for data processing systems. 3,675,083, 7-4-72, Cl. 317-101.000.

White, Donald J.; and Navin, William R., Jr., to General Instrument Corporation. Contour mapping system. 3,641,484, 2-8-72, Cl. 340-3.

White, Donald Patrick: *See—*
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White, Dorothy E., to Hercules Incorporated. Hot melt coating composition. 3,657,171, 4-18-72, Cl. 260-27.

White, Douglas F., to American Standard, Inc. Apparatus and method for measuring the velocity of a flowing fluid. 3,650,152, 3-21-72, Cl. 73-194.

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White, Edward Gates. Convertible antenna-mounting structure. 3,683,392, 8-8-72, Cl. 343-805.000.
White, Edward L.; and Lang, William D., to NL Industries, Inc. Metallic salts of mixed acids as stabilizers for rigid vinyl resin compositions. 3,645,944, 2-29-72, Cl. 260-23.
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White, Fred K., to Mulwhiteson Development Company. Device for measuring specific gravity of fluids. 3,631,727, 1-4-72, Cl. 73-440.
White, Frederick K., to Gulf Research & Development Company. Catalyst regeneration with transfer line combustion and disperse phase discharge into a regenerator. 3,647,714, 3-7-72, Cl. 252-417.
White, Frederick M., to General Electric Company. Dual ratchet clutch drive. 3,664,207, 5-23-72, Cl. 74-337.5.
White, Gale. Seismometer. 3,662,327, 5-9-72, Cl. 340-17.
White, Gary O. Active linear discriminator circuit. 3,667,062, 5-30-72, Cl. 329-142.
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White, George H.; and Dunn, William J., to Modoy, Inc. Car top cabin. 3,635,515, 1-18-72, Cl. 296-23.
White, Gerard, to Bell Telephone Laboratories, Incorporated. Broadband amplifier having improved gain characteristics. 3,701,033, 10-24-72, Cl. 330-21.000.
White, Gerome R.; and Lawner, Arnold M., to Whitesons Sales Corporation. Elevator control dispensing with traveling cables. 3,662,861, 5-16-72, Cl. 187-29.00r.
White, Gordon F.; and Wilkinson, Adam R., to White Water International Ltd. Oligodynamic treatment of liquids. 3,654,119, 4-4-72, Cl. 204-228.
White, Halbert C.: *See—*
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White, Herschel T.: *See—*
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White, Hollis N., Jr.; and Bough, Dale E., to TRW Inc. Hydraulic pump motor. 3,687,578, 8-29-72, Cl. 418-21.000.
White, Idas B., to Eaton Yale & Towne Canada Limited. Tree-harvesting apparatus. 3,665,985, 5-30-72, Cl. 144-34.00e.
White, Ira C. Ear syringe. 3,651,808, 3-28-72, Cl. 128-232.
White, Irvine Everard, to Illingworths (Plastics) Limited. Container with pivoted contents removing cover. 3,651,978, 3-28-72, Cl. 220-30.
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White, James C., to Propper Manufacturing Co., Inc. Apparatus for manufacturing assemblies of closed glass tubes each with a pellet therein. 3,652,249, 3-28-72, Cl. 65-156.
White, James C. Binder. 3,663,041, 5-16-72, Cl. 281-49.
White, James C., to Propper Manufacturing Co., Inc. Apparatus for grinding glass slides or the like. 3,667,166, 6-6-72, Cl. 51-92.
White, James C., to Propper Manufacturing Co., Inc. Slide conveyor system and method. 3,693,811, 9-26-72, Cl. 214-8.50g.
White, James C., Jr.; and Wolfe, Roger L., to LeTourneau, R. G., Inc. Spreader skew arrangement. 3,656,795, 4-18-72, Cl. 294-67.
White, James E., to Marathon Oil Company. Seismic diffraction scan. 3,638,176, 1-25-72, Cl. 340-15.5.
White, James E., to Poly-Mech Products, Incorporated. Reversible cutter and holder assembly therefor. 3,660,878, 5-9-72, Cl. 29-98.
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White, James E., to Marathon Oil Company. Echo ranger borehole scanner. 3,683,326, 8-8-72, Cl. 340-15.5sw.
White, Jay E., Jr., to Reflex Corporation of Canada Limited. Mounting of sealed beam headlamps. 3,676,666, 7-11-72, Cl. 240-41.500.
White, Jeffrey Douglas: *See—*
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White, Jessie N.; and Roseby, Bernard, to Berkeley Steel Construction Company, Inc. Air lift pump. 3,672,790, 6-27-72, Cl. 417-108.000.
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White, Kenneth H., to Collins Radio Company. Force hub sensor for control wheel steering. 3,705,530, 12-12-72, Cl. 73-136.00c.
White, Kenneth Murray, to Western Rock Bit Company Limited. Trencher tooth mounting. 3,665,623, 5-30-72, Cl. 37-142.00a.
White, Kenneth N.; and Meyer, Harold E. Slipjointed knockdown cabinet. 3,674,328, 7-4-72, Cl. 312-263.000.
White, Kenneth N.; and Meyer, Harold E. Hand tool for applying edge banding to laminated plastic boards. 3,676,272, 7-11-72, Cl. 156-574.000.
White, Kenneth N., 1/2% to Meyer, Harold and 1/2% to White-Meyer Products, Inc. Routing device with movable routing tool. 3,692,075, 9-19-72, Cl. 144-136.000.
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White, Pierce H., Jr. Livestock insecticide applicator. 3,677,233, 7-18-72, Cl. 119-157.000.
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White, Raymond F.; and Demain, Arnold L., to Merck & Co., Inc. Fermentation processes for preparing (-) (cis-1,2 epoxypropyl) phosphonic acid. 3,681,198, 8-1-72, Cl. 195-80.000.
White, Richard B.: *See—*
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White, Richard N.; and Wilkin, Joseph D., to Celotex Corporation, The, mesne. Suspended ceiling system. 3,668,826, 6-13-72, Cl. 52-28.000.
White, Robert B. Root feeder device. 3,659,536, 5-2-72, Cl. 111-7.1.
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White, Robert J., to Chevron Research Company. Synthesis gas production. 3,698,881, 10-17-72, Cl. 48-209.000.
White, Robert L.; and Creed, John W., Jr., to General Motors Corporation. Coincidental lock. 3,638,462, 2-1-72, Cl. 70-186.
White, Robert L., to General Motors Corporation. Energy absorbing bumper mount and restoration tool therefor. 3,705,741, 12-12-72, Cl. 293-89.000.
White, Robert W. Material shearing mixer and aerator. 3,650,950, 3-21-72, Cl. 210-60.
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White, Rowland K.; and Lindbeck, Simon L., to Qatron Corporation. Magnetic tape playing and changing apparatus. 3,643,962, 2-22-72, Cl. 274-4.
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White, Samuel H. Shoe cleat. 3,667,141, 6-6-72, Cl. 36-67.
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White, Walter D. Automatically retractable truck cover. 3,656,802, 4-18-72, Cl. 296-100.
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White, William D., to Texaco Inc. Means and method for on-line determination of the aromatic, naphthene and paraffin contents of charge oil. 3,666,932, 5-30-72, Cl. 235-151.12.
White, William E., Jr., to Hydro Tech Services, Inc. Adjustable length coupling. 3,695,634, 10-3-72, Cl. 285-31.000.
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Whitener, Philip C., to United States of America, Navy. Hydrofoil flap control system. 3,645,223, 2-29-72, Cl. 114-66.5.
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Whitney, John K. Inflatable body support. 3,701,173, 10-31-72, Cl. 5-349.000.

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Whittemore, James R. Retractable vehicle cover. 3,649,073, 3-14-72, Cl. 296-137.

Whittemore, Lawrence C. Flare dispenser. 3,635,189, 1-18-72, Cl. 116-114.

Whittemore, Maurice James, Jr., to RCA Corporation. Recorder and playback apparatus for pulse width modulated record. 3,688,025, 8-29-72, Cl. 178-6.60r.

Whittemore, Russell G., to PPG Industries, Inc. Electrically heated window. 3,659,079, 4-25-72, Cl. 219-522.

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Whitten, James Robert, to General Electric Company. Modulation format for signal arrive time determination utilizing differential code logic. 3,680,114, 7-25-72, Cl. 343-100.0cl.

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Whittier, Lawrence E. Alarm clock. 3,691,752, 9-19-72, Cl. 58-16.000.

Whittingham, Barron S. Process of making an edible poultry composition. 3,666,490, 5-30-72, Cl. 99-108.000.

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Whole Earth Corporation, The: *See—*
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Whyman, Barry Herbert Francis: *See—*
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Whysong, Dale C.; Leininger, Dale E.; and Young, Herbert D., to General Kinetics, Inc. Method of cleaning magnetic tape. 3,674,559, 7-4-72, Cl. 134-9.000.

Whysong, Dale C.; and Leininger, Dale E., to General Inetics Inc. Magnetic tape file protect system. 3,688,300, 8-29-72, Cl. 340-267.00r.

Whyte, David D.: *See—*
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Wiart, Albert, to Societe Anonyme dite: Jumont-Schneider. Electronic switching for the windings of electrical machinery. 3,639,818, 2-1-72, Cl. 318-138.

Wiart, Albert; and Cynober, Simon A., to Jeumont-Schneider. Handling conveyors having self-propelled trolleys. 3,675,585, 7-11-72, Cl. 104-148.0lm.

Wiart, Albert C., to Jeumont-Schneider. Switcher-chopper for controlling current in brushless rotating machines, supplied by a DC source. 3,639,819, 2-1-72, Cl. 318-138.

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Wiberg, Ole. Convertible chair. 3,656,189, 4-18-72, Cl. 5-12.

Wiberger, Ingvar, to Aktiebolaget Bofors. Feed stuff containing salicyl salicylic acid. 3,662,072, 5-9-72, Cl. 424-230.

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Wichert, Gerhard, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen mbH. Motor vehicle headlight and double-filament incandescent lamp therefor with glare light shield. 3,646,385, 2-29-72, Cl. 313-115.
Wichmann, Arnold; and Amborn, Herbert, to Siemens Aktiengesellschaft. Method for impregnating and hardening winding rods, coils or semi-coils of electrical machines in correct dimensions. 3,631,590, 1-4-72, Cl. 29-596.
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Wicker, Ralph C., to Carlson, Chesley F., Company. Lithographic color analyzer using interference magnification. 3,671,131, 6-20-72, Cl. 356-175.000.
Wicker, Ralph C., to American Bank Note Company, mesne. Printing method and article for hiding halftone images. 3,675,948, 7-11-72, Cl. 283-6.000.
Wicker, Thomas H., Jr.: *See—*
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Wicker, Walter, to Staubli Ltd. Apparatus for connecting a loom heald shaft to heald shaft tackle. 3,683,970, 8-15-72, Cl. 139-57.000.
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Wickers, Francis A.; France, David W.; and Mason, Ronald C., to USM Corporation. Work feeding means for sewing machines. 3,665,877, 5-30-72, Cl. 112-235.000.
Wickersham, Arthur F., to Stanford Research Institute. Radio surface wave antenna. 3,705,407, 12-5-72, Cl. 343-830.000.
Wickersham, Price D., to Brooks Research and Manufacturing Inc. Coordinate conversion for the testing of printed circuit boards. 3,654,585, 4-4-72, Cl. 339-17.
Wickersheim, August. Apparatus for packing piece goods, particularly fruits, into a hose-shaped packing material. 3,643,401, 2-22-72, Cl. 53-266.
Wickham, Henry P.: *See—*
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Wicklund, Dale L. Shaker screen apparatus for mortar mixers. 3,664,644, 5-23-72, Cl. 259-164.
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Wiese, Herbert K.; and Burton, Paul E., to Esso Research and Engineering Company. Process for forming carbonyl compounds. 3,671,590, 6-20-72, Cl. 260-593.
Wiese, John R.: *See—*
Hance, Richard J.; Wiese, John R.; and Clauss, Harry G., Jr., 3,646,816.
Wiese, Joseph A., Jr.: *See—*
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Wiese, Joseph A., Jr., to Minnesota Mining and Manufacturing Company. Heat-sensitive copy sheet. 3,632,379, 1-4-72, Cl. 117-36.8.
Wiese, Joseph A., Jr.; and Barte, William B., to Minnesota Mining and Manufacturing Company. Sheet-like material, the method of storing an image consisting of differing magnetic, electrical, and optical properties. 3,648,257, 3-7-72, Cl. 340-173.
Wiese, Joseph A., Jr.; and Tiers, George Van Dyke, to Minnesota Mining and Manufacturing Company. Transparent heat-sensitive film. 3,663,257, 5-16-72, Cl. 117-36.800.
Wiese, Joseph A., Jr.; and Dalzell, Rex J., to Minnesota Mining and Manufacturing Company. Heat-sensitive copy-sheet. 3,663,258, 5-16-72, Cl. 117-36.800.
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Wiese, Larry Lee: *See—*
Bopp, George Ellsworth; and Wiese, Larry Lee, 3,638,149.
Wiese, Larry Lee, to Bell Telephone Laboratories, Incorporated. Vibrating reed selector having improved contact configuration. 3,662,300, 5-9-72, Cl. 335-97.
Wiese, Lee R., to Henschel-Steinau, Inc., mesne. Knock-down display. 3,704,792, 12-5-72, Cl. 211-126.000.
Wiese, Raymond H. Print containing different numbers of dots in light and dark tonal areas. 3,666,479, 5-30-72, Cl. 96-116.000.
Wieselman, Jerome J.: *See—*
Schwartz, Leonard; Purcell, Harold K.; and Wieselman, Jerome J., 3,674,688.
Wiesenberger, Josef, to DUMAG OHG, Dr. Ludwig Kaluza & Co. Apparatus for mixing a plurality of gaseous streams. 3,667,679, 6-6-72, Cl. 239-102.
Wiesener, Robert W., to Programmed & Remote Systems Corporation. True motion miniature manipulator. 3,650,410, 3-21-72, Cl. 214-1.
Wiesener, Robert W., to Programmed & Remote Systems Corporation. Extended reach counterweight. 3,661,276, 5-9-72, Cl. 214-1.
Wiesenfeld, Arnold: *See—*
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Wiesenhofer, Eugene E.: *See—*
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Wiesenhofer, Frank Henry: *See—*
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Wieser, Peter F.; and Dore, James E., to Olin Corporation. Method of grain refining aluminum base alloys. 3,676,111, 7-11-72, Cl. 75-142.000.
Wieske, Reinhold: *See—*
Hempel, Gerhard; Wieske, Reinhold; Krieger, Bernhard; and Kaspar, Emanuel, 3,700,660.
Wieske, Reinhold, to Schering A.G. Process for the preparation of 5-bromo-6-fluoro-steroids. 3,681,404, 8-1-72, Cl. 260-397.400.
Wieske, Theophil: *See—*
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Wiesler, Mordechai, to Teledyne, Inc. Probe and head assembly. 3,648,169, 3-7-72, Cl. 324-158.
Wiesler, Mordechai; and Macintyre, John S., to Teledyne, Inc. Apparatus for bonding semi-conductive devices. 3,668,044, 6-6-72, Cl. 156-366.
Wiesler, Mordechai; Martinonis, Virgil; and Macintyre, John S., to Teledyne, Inc. Die sorting system. 3,695,414, 10-3-72, Cl. 198-108.000.
Wiesler, Mordechai; Martinonis, Virgil; and Macintyre, John S., to Teledyne, Inc. Die sorting system. 3,702,923, 11-14-72, Cl. 235-61.11e.
Wieslogle, Frederick Y.; and Bernstein, Jack, to Squibb, E. R., & Sons, Inc. Imines of nitroheterocyclic aldehydes and compounds of the penicillanic acid or cepham series. 3,647,781, 3-7-72, Cl. 260-239.1.
Wiesner, Ernst, to Zumtobel, Walter, Dr. Transformer or inductor assembly. 3,636,488, 1-18-72, Cl. 336-83.
Wiesner, Ernst, to Zumtobel, Walter. Magnetic circuit for an inductor or transformer. 3,646,493, 2-29-72, Cl. 336-178.
Wiesner, Ernst, to Zumtobel, Walter. Core arrangement having slotted laminations. 3,663,912, 5-16-72, Cl. 336-178.
Wiesner, Karel; and McCluskey, Jarvis G., to United States of America. 1,5-Methano-3-benzazocine derivatives. 3,687,937, 8-29-72, Cl. 260-239.30t.
Wiesner, Max; Sonne, Herbert; and Schmidt, Hans-Robert, to Agfa-Gevaert Aktiengesellschaft. Photographic film cassette. 3,653,604, 4-4-72, Cl. 242-71.2.
Wiesner, Paul: *See—*
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Wiessner, Edgar, to Siemens Aktiengesellschaft. Frame clamp for electrically connecting electrical leads. 3,659,253, 4-25-72, Cl. 339-198.
Wiessner, Edward E.: *See—*
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Wiest, Donald G., to Eastman Kodak Company. Adhesive composition for preparation of a laminated photographic identification card comprising gelatin, a copolymer latex of polyvinyl acetate and an alkyl ester of an unsaturated carboxylic acid, a plasticizer nd a solvent. 3,635,853, 1-18-72, Cl. 260-8.
Wiest, Donald G., to Eastman Kodak Company. Method of making a laminated photographic identification card. 3,654,022, 4-4-72, Cl. 156-320.
Wiest, Hubert: *See—*
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Wietelman, Billy J. Broom guide. 3,651,531, 3-28-72, Cl. 15-171.
Wietelmann, Ronald E.; and Wittenbrook, Lawrence S., to Scott, O. M., & Sons Company, The. Method and composition therefor. 3,637,366, 1-25-72, Cl. 71-92.
Wieting, Eugen, to Banning, J., Aktiengesellschaft. Rolling mills. 3,698,218, 10-17-72, Cl. 72-10.000.
Wiewiorowski, Tadeusz K.; and Vincent, John Ross, to Freeport Minerals Company. Recovery of sulfur dioxide from a sulfur dioxide-containing aqueous ammonium phosphate solution. 3,633,339, 1-11-72, Cl. 55-37.
Wigal, Voorhis F. Multiple jumping device. 3,703,784, 11-28-72, Cl. 46-129.000.
Wigdorovits, Ivan: *See—*
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Wiggershaus, Fred; and Donner, Klaus, to Demag Aktiengesellschaft. Blocking mechanism for an overhead crane trackway. 3,696,755, 10-10-72, Cl. 104-250.000.
Wiggett, Edward J.: *See—*
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Wiggill, John B., to Du Pont de Nemours, E. I., and Company. Silica/elastomer composites and method of producing same. 3,649,335, 3-14-72, Cl. 117-62.11.
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Wiggins, Gary K., to Marine Construction & Design Co. Apparatus for removing viscera from a fish. 3,707,019, 12-26-72, Cl. 17-58.000.
Wiggins, Glenn C., to Dow Chemical Company, The. Pressure release valve for flexible pouches. 3,672,915, 6-27-72, Cl. 99-171.0lp.
Wiggins, Glenn C.; Kreh, Marvin J.; Davis, Robert S.; and Stevenson, Fred, to Dow Chemical Company, The. Oriented saran coextrudate. 3,707,590, 12-26-72, Cl. 264-95.000.
Wiggins, Peter F.: *See—*
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Woodward, Anthony Ian; Purdie, Angus John Challis; and Way, Anthony Paul, 3,676,189.
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Wiggins, William H. Cooking device. 3,692,012, 9-19-72, Cl. 126-25.00r.
Wigglesworth Limited: *See—*
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Wight, Christian F., to International Flavors & Fragrances Inc. Fragrance methods and compositions. 3,660,311, 5-2-72, Cl. 252-522.
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Wiig, Chester M., to Littell, F. J., Machine Company. Feeding apparatus using rack and pinion mechanism having dwell periods. 3,638,846, 2-1-72, Cl. 226-142.
Wiig, Chester M., to Littell, F. J., Machine Company. Apparatus for continuously bending and flexing strip material. 3,643,487, 2-22-72, Cl. 72-164.
Wiig, Chester M., to Littell, F. J., Machine Company. Feeding apparatus for strip material. 3,647,127, 3-7-72, Cl. 226-155.
Wiig, Chester M., to Littell, F. J., Machine Company. Apparatus for positioning scroll shaped metal strips. 3,665,794, 5-30-72, Cl. 83-253.
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Wijard, Endel; and Odsvall, Jan, to Aktiebolaget Elektrodius. Process for hardening agglomerated bodies of ore concentrate in a high frequency alternating field. 3,661,554, 5-9-72, Cl. 75-3.
Wijard, Endel; and Odsvall, Jan, to Aktiebolaget Electrodius. Autoclave device. 3,687,635, 8-29-72, Cl. 23-290.000.
Wijmenga, Romke; and Wunderink, Jan, to N.V. Chefaro Maatschappij. Reduction of the phytotoxicity of fungicidal compositions containing manganese ethylene bisdithiocarbamate. 3,662,064, 5-9-72, Cl. 424-145.
Wijsboom, Dan Bernardus, to U.S. Philips Corporation. DC-AC converter. 3,662,249, 5-9-72, Cl. 321-11.
Wikdahl, Nils Anders Lennart. Method of converting nuclear energy to mechanical energy and installation for carrying out the method. 3,656,300, 4-18-72, Cl. 60-59.
Wikel, David C.; and Smith, Rymer H., to Wikel Manufacturing Co., Inc. Seal coating machine. 3,703,856, 11-28-72, Cl. 94-44.000.
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Wikholm, Sture Sven-Olof; and Sjostrand, Carl Evert, to Stenberg-Flygt AB. Guiding device for pumps lowerable in shafts. 3,687,576, 8-29-72, Cl. 417-424.000.
Wikman, Andrew O.: *See—*
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Wiktor, Dominik M., to Automatic Switch Company. Electrical switch having contacts provided with rollers. 3,648,003, 3-7-72, Cl. 200-166.
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Wilcox, Lance C., to Electric Regulator Corporation. Semiconductor assembly. 3,661,013, 5-9-72, Cl. 73-141.
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Wilcox, Milton E., to Motorola, Inc. Diode delay line. 3,644,749, 2-22-72, Cl. 307-208.
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Wilcox, Russell E., to Texas Instruments, Incorporated. Panel board system and components thereof with connector and integrated circuit device. 3,671,813, 6-20-72, Cl. 317-118.000.
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Wild, Peter, to Brown, Boveri & Company Limited. Liquid crystal voltage display device having photoconductive means to enhance the contrast at the indicating region. 3,705,310, 12-5-72, Cl. 250-229.000.
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Wild, Peter J., to Aktiengesellschaft Brown, Boveri & Cie. Method of and apparatus for detemining the difference in phase between two periodic electrical signals having essentially the same frequency. 3,683,285, 8-8-72, Cl. 328-133.000.
Wild, Robert G., to Ladney, Michael, Jr. Fixtures for electrochemical processes. 3,655,549, 4-11-72, Cl. 204-297.
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Wilder, Harry D., to Ethyl Corporation. Process for the manufacture of dissolving-grade pulp. 3,652,387, 3-28-72, Cl. 162-25.
Wilder, Harvey H., to Carborundum Company, The. Direct pressure treating device. 3,675,374, 7-11-72, Cl. 51-12.000.
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Wilder, Paul R.; and Smallwood, Donald L., to Dover Corporation. Cartridge insert for a dispensing nozzle. 3,704,817, 12-5-72, Cl. 222-482.000.
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Wildgruber, Otto, to Siemens Aktiengesellschaft. Check back system for visual and audible indication of detected processes. 3,644,926, 2-22-72, Cl. 340-412.
Wildhaber, Ernest. Radiation sensitive optical scanning apparatus. 3,634,696, 1-11-72, Cl. 250-219.
Wildhaber, Ernest. Record for machine scanning. 3,657,522, 4-18-72, Cl. 235-61.12.
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Wildhaber, Ernest. Method and apparatus for scanning characters. 3,689,744, 9-5-72, Cl. 235-61.11e.
Wildhaber, Ernest. Rotary cutter with helically directed cutting teeth arranged in a circle. 3,689,966, 9-12-72, Cl. 29-103.00c.
Wildhaber, Ernest. Rotary cutter for cutting teeth. 3,693,225, 9-26-72, Cl. 29-103.00r.
Wildhaber, Ernest. Indexing drive. 3,699,822, 10-24-72, Cl. 74-437.000.
Wildhaber, Ernest. Optical scanner with straight scanning line. 3,700,911, 10-24-72, Cl. 250-236.000.
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Wildner, Walter, to Motoren- und Turbinen-Union Munchen GmbH. Thrust reverser unit. 3,703,258, 11-21-72, Cl. 239-265.290.
Wildt, Roger H., to Bethlehem Steel Corporation. Deformed wire for concrete reinforcement. 3,641,799, 2-15-72, Cl. 72-198.
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Wilens, Seymour; and Trunk, Edmund G., to Stover Company, The. Heat dissipator for encased semiconductor device having heat tab extending therefrom. 3,694,703, 9-26-72, Cl. 317-234.00r.
Wilentchik, Jerzy J. Linear potentiometer with segmented terminal and collector means. 3,657,691, 4-18-72, Cl. 338-182.
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Wiles, Howard M. Art of removing fiber forms from concrete columns. 3,644,611, 2-22-72, Cl. 264-334.
Wiley, Carl A., to North American Rockwell Corporation. Phase and frequency scanned antenna. 3,646,559, 2-29-72, Cl. 343-100.
Wiley, Charles L., to Universal Oil Products Company. Recovery of rhenium values from a spent catalyst. 3,672,874, 6-27-72, Cl. 75-101.00r.
Wiley, Daniel E.; Mc Dougal, Harmon A.; and Turner, Allan L., to PPG Industries, Inc. Method of preparing sodium-lead alloy flakes. 3,642,053, 2-15-72, Cl. 164-70.
Wiley, Daniel E., to PPG Industries, Inc. Quenching vinyl chloride containing gas streams. 3,655,787, 4-11-72, Cl. 260-656.
Wiley, Daniel E.; McDougal, Harmon A.; and Turner, Allan L., to PPG Industries, Inc. Flaking apparatus. 3,707,182, 12-26-72, Cl. 164-276.000.
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Wiley, Nathaniel C., Jr.; and Kazakavage, Joseph R., to Rudkin-Wiley Corporation. Non-tilt stacking and nesting container. 3,642,168, 2-15-72, Cl. 220-97.
Wiley, Robert A., to Petrolite Corporation. Process for removing and concentrating acidic organic material from water. 3,673,070, 6-27-72, Cl. 204-186.000.
Wiley, Robert F., to Corning Glass Works. Glass gob delivery. 3,650,723, 3-21-72, Cl. 65-169.

Wiley, William H.; and Johnson, Franklin W., to Barber-Colman Company. Thrust controller for propulsion systems with commonly driven, controllable pitch propellers. 3,686,485, 8-22-72, Cl. 235-150.200.
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Wilfert, Karl; and Gotz, Hans, to Daimler-Benz Aktiengesellschaft. Installation for reducing the soiling of rear lights in motor vehicle bodies. 3,635,517, 1-18-72, Cl. 296-28.
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Wilfert, Karl; and Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Safety steering wheel. 3,659,476, 5-2-72, Cl. 74-492.
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Wilfert, Karl; and Andres, Rudolf, to Daimler-Benz Aktiengesellschaft. Safety steering for motor vehicles, especially for passenger motor vehicles. 3,683,717, 8-15-72, Cl. 74-552.000.
Wilfert, Karl. Motor vehicle body. 3,695,679, 10-3-72, Cl. 296-91.000.
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Wilhelm, Carl F., Jr. Cooling sleeve for gas turbine combustor transition member. 3,652,181, 3-28-72, Cl. 415-117.
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Wilhelm, Frederick C., to Universal Oil Products Company. Hydrogen-consuming process and catalyst therefor. 3,644,198, 2-22-72, Cl. 208-111.
Wilhelm, Frederick C., to Universal Oil Products Company. Dehydrogenation method and catalytic composite for use therein. 3,649,565, 3-14-72, Cl. 252-466.
Wilhelm, Frederick C., to Universal Oil Products Company. Catalytic composite of platinum group metal nickel, group metal and Friedel-Crafts metal halide on oxide support. 3,705,111, 12-5-72, Cl. 252-439.000.
Wilhelm, Gary, to Stoeger Arms Corporation. Toggle action firearm. 3,698,285, 10-17-72, Cl. 89-189.000.
Wilhelm, Gary, to Stoeger Arms Corporation. Firearm. 3,706,152, 12-19-72, Cl. 42-70.00d.
Wilhelm, Gary. Firearm. 3,706,261, 12-19-72, Cl. 89-154.000.
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Wilhelm, Hans; Faulhaber, Gerhard; Marx, Matthias; and Hann, Ernst Wilhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Surface coatings based on copolymers containing etherified N-methylolamide groups. 3,632,838, 1-4-72, Cl. 260-885.
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Wilhelm, Max, to Ciba-Geigy Corporation. Hydroxyethanoanthracenes. 3,706,765, 12-19-72, Cl. 260-326.14t.
Wilhelm, Wilhelm, to Siemens Aktiengesellschaft. Logical gate switching circuit in ECL-switching circuit technique. 3,655,998, 4-11-72, Cl. 307-215.
Wilhelmi, Heiner, to Jurid Werke G.m.b.H. Vehicle brake lining wear warning device. 3,639,895, 2-1-72, Cl. 340-52.
Wilhelmi, Werner Alfred, to Nederlandse Bewoid Maalschappij N.V. Nonwoven fabrics and binders therefor. 3,644,251, 2-22-72, Cl. 260-26.
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Wilhelmson, Jack L.; and Michaels, Bruce E., to Sherwood Medical Industries, Inc. Read out system. 3,633,012, 1-4-72, Cl. 235-151.3.
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Wilke, Gerhard; Schnell, Gerhard; and Hoyer, Karl, to Bosch, Robert, G.m.b.H. Transporation system. 3,647,014, 3-7-72, Cl. 180-14.
Wilke, Gunther; and Muller, Ernst Willi. Process for the production of dimers and trimers of conjugated dienes. 3,641,175, 2-8-72, Cl. 260-666.
Wilke, Gunther; and Bogdanovic, Borislav, to Studiengesellschaft Kohle m.b.H. Process for isomerizing olefins. 3,644,558, 2-22-72, Cl. 260-683.2.
Wilke, Gunther; Heimbach, Paul; and Delliehausen, Claus, to Studiengesellschaft Kohle mbH. Nonadecapenta-1,6,9,13,18-ene-10-methyl carboxylate and the production thereof. 3,660,440, 5-2-72, Cl. 260-410.9.
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Wilke, Rajd A., to Koehring Company. Fluid flow controlling device for reversible fluid motors. 3,685,540, 8-22-72, Cl. 137-596.130.
Wilke, Richard. Electromotive adjusting device. 3,691,858, 9-19-72, Cl. 74-89.150.
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Wilkens, Howard John. Magnesium tennis racket with weighted throat piece. 3,642,283, 2-15-72, Cl. 273-73.
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Wilkerson, Forrest R., Jr.; and McClancy, George M., to Remac, Inc. Process for preparing sausage product and products. 3,652,296, 3-28-72, Cl. 99-109.
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Wilkerson, Philip E. Apparatus for maintaining uniform yarn tension during unwinding of a yarn package. 3,690,584, 9-12-72, Cl. 242-128.000.
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Wilkes, Donald F., to Rolamite Incorporated. Tapered roller bearing assembly. 3,639,018, 2-1-72, Cl. 308-214.
Wilkes, Donald F., to Rolamite, Incorporated. Cyclic apparatus. 3,670,579, 6-20-72, Cl. 74-63.000.
Wilkes, Donald F., to Rolamite, Incorporated. Ski bindings. 3,671,052, 6-20-72, Cl. 280-11.35t.
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Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Low frequency magnetic core inductor structure. 3,668,589, 6-6-72, Cl. 336-212.000.
Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Power supply voltage output detector. 3,679,965, 7-25-72, Cl. 323-19.000.
Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Current sharing parallel transistor circuit current sharing parallel. 3,699,358, 10-17-72, Cl. 307-242.000.
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Wilkinson, Leonard A., to American Optical Corporation. Ophthalmic refracting chart projector. 3,655,276, 4-11-72, Cl. 351-30.
Wilkinson, Lionel W. G., to USM Corporation. Method and apparatus for seam forming. 3,643,271, 2-22-72, Cl. 12-146.
Wilkinson, Michael Burton, to Pye Limited. Dual range double beam null-type spectrophotometer. 3,658,422, 4-25-72, Cl. 356-89.
Wilkinson, Norman, to Lucas, Joseph, (Industries) Limited. Electrical switches with pivotal actuator detent means. 3,659,067, 4-25-72, Cl. 200-166.
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Wilkinson, Peter R. S. Apparatus for photographic processing. 3,703,860, 11-28-72, Cl. 95-93.000.
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Willard, Henry G., to General Electric Company. Shock protection device circuit. 3,657,604, 4-18-72, Cl. 317-18.
Willard, Henry G., to General Electric Company. Flux transfer trip device for electric circuit breakers. 3,693,122, 9-19-72, Cl. 335-174.000.
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Willems, Jozef Frans; and Vandenberghe, Antoon Leon, to Gevaert-Agfa N.V. Photographic development. 3,650,749, 3-21-72, Cl. 96-66.
Willems, Jozef Frans, to Gevaert-Agfa N.V. Photography. 3,658,535, 4-25-72, Cl. 96-59.
Willems, Jozef Frans; Heugebaert, Frans Clement; and Pollet, Robert Joseph, to Gevaert-Agfa N.V. Photographic material with a stabilizer antifoggant bidentate compound. 3,667,957, 6-6-72, Cl. 96-109.
Willems, Jozef Frans; Heugebaert, Frans Clement; and Brinckman, Eric Maria, to Agfa-Gevaert. Chemical development of light-sensitive lead compositions. 3,676,131, 7-11-72, Cl. 96-48.000.
Willems, Jozef Frans, to Gevaert-Agfa N.V. Method for developing photographic materials. 3,682,634, 8-8-72, Cl. 96-29.00r.
Willems, Jozef Frans; Thiers, Robrecht Julius; and Priet, Roger Alois, to Gevaert-Agfa N.V. Silver diffusion transfer process having hydroxylamine, cyclic imide and a pyrazolioinone. 3,687,662, 8-29-72, Cl. 96-29.000.
Willems, Jozef Frans; Berendsen, Jules Robert; Pollet, Robert Joseph; and Vandenberghe, Antoon Leon, to Gevaert-Agfa N.V. Silver halide emulsion containing sulfur or selenium sensitizer and hydroxy tetra-azaindene stabilizer. 3,689,273, 9-5-72, Cl. 96-109.00.
Willems, Leonardus Franciskus, to U.S. Philips Corporation. Periodicity analyser for a quasi-periodic signal including a detection circuit. 3,676,596, 7-11-72, Cl. 179-1.0sa.
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Willemsens, Louis C. Organolead nitrogen compounds. 3,655,683, 4-11-72, Cl. 260-299.
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Willett, Harold A., to Cane Machinery & Engineering Company, Inc. Cane grab for windrow loader. 3,651,966, 3-28-72, Cl. 214-147.
Willett, Harold A., to Cane Machinery & Engineering Company, Inc. Sugar cane topper for V-cutter harvester. 3,705,481, 12-12-72, Cl. 56-13.900.
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Willetts, Elwood H. Vehicle suspension system. 3,687,478, 8-29-72, Cl. 280-104.50r.
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William, Alan George, to Black and Decker Manufacturing Company, The. Circular saw guard and linkage. 3,706,332, 12-19-72, Cl. 143-159.00h.
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Williams, Alun Trefor Rhys; and Alcock, David Gerald, to Ilford Limited. Color photographic process using a bleach-fix solution containing a selenosulfate. 3,702,247, 11-7-72, Cl. 96-55.000.
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Williams, Charles J., to Erie Development Company. On-stream ore liberation detection system. 3,658,260, 4-25-72, Cl. 241-19.
Williams, Charles P.; and Williams, William K. Extender assembly for extension planks. 3,703,220, 11-21-72, Cl. 182-223.000.
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Williams, Chester I. Rock bolt rod configuration. 3,653,217, 4-4-72, Cl. 61-45.
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Williams, Chester I. Tie rod configuration for sealing the threaded inner end of a shebolt. 3,667,720, 6-6-72, Cl. 249-213.
Williams, Chester I. Rock bolts. 3,695,045, 10-3-72, Cl. 61-45.00b.
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Williams, David A.; Yen, Chen-Hsiung; and Harris, Calvin E., to Eastman Kodak Company. Apparatus for splicing together the overlapping ends of photographic films. 3,687,786, 8-29-72, Cl. 156-502.000.
Williams, David A., to Eastman Kodak Company. Ultrasonic transducer with half-wave separator between piezoelectric crystal means. 3,689,783, 9-5-72, Cl. 310-8.300.
Williams, David C., to Ashland Oil, Inc. Solid-gas separating means. 3,646,595, 2-29-72, Cl. 55-284.
Williams, David C., to Ashland Oil, Inc. Pelletizer process with control system. 3,657,400, 4-18-72, Cl. 264-40.
Williams, David Christopher Robert, to Thorn Electrical Components Limited. Controlled degradation of a visual scene. 3,675,344, 7-11-72, Cl. 35-12.00n.
Williams, David M., to Fiber Industries, Inc. Programmed spindle speed. 3,638,414, 2-1-72, Cl. 57-93.
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Williams, Everard M.: *See—*
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Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Conners, Alan; and Gosden, Derek Vernon, to British Titan Products Company Limited. Beneficiating iron-containing titaneferous material. 3,649,243, 3-14-72, Cl. 75-1.
Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Conners, Alan; and Gosden, Derek Vernon, to British Titan Products Company Limited. Process of beneficiating titaniferous beach sand. 3,677,740, 7-18-72, Cl. 75-1.000.
Williams, Franklin C., to Eastman Kodak Company. Sound movies and methods of making same. 3,666,356, 5-30-72, Cl. 352-5.000.

Williams, Frederick R., to Dreamland Electrical Appliances Limited. Electrically heated pads or blankets. 3,668,367, 6-6-72, Cl. 219-212.
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Williams, Garold H. Instant water heater. 3,687,128, 8-29-72, Cl. 126-350.00r.
Williams, Gathalee H. Lady's headpiece. 3,668,707, 6-13-72, Cl. 2-207.000.
Williams, George F.; and Held, Edward C., Jr., to Phillips Petroleum Company. Method of cooling thermoformed articles. 3,666,849, 5-30-72, Cl. 264-40.
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Williams, Harry Albert. Cushion protector. 3,693,619, 9-26-72, Cl. 128-149.000.
Williams, Haydn W. R.: *See—*
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Williams, James M.; and Williams, Helga. Combination of cooking utensils. 3,641,926, 2-15-72, Cl. 99-448.
Williams, James M., to Massachusetts Institute of Technology. Touch control switch. 3,679,910, 7-25-72, Cl. 307-252.00w.
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Williams, James W., III; and Fetterolf, John S. Slip-type expansion joint and packing joint. 3,664,690, 5-23-72, Cl. 285-96.000.
Williams, Jerry G.; and Judd, Joseph H., to United States of America, National Aeronautics and Space Administration. Light regulator. 3,671,105, 6-20-72, Cl. 350-161.000.
Williams, Jimmy H., to United States of America, Army. Self-locking hydraulic linkage. 3,662,649, 5-16-72, Cl. 89-40.00j.
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Williams, John Edward. Treatment of ingot moulds. 3,686,013, 8-22-72, Cl. 117-5.100.
Williams, John F., to Sorvall, Ivan, Inc. Variable and reversing hydraulic drive system for turbines. 3,655,293, 4-11-72, Cl. 415-17.000.
Williams, John G., to Worthington Corporation. Multi-stage pump and components therefor. 3,677,659, 7-18-72, Cl. 415-111.000.
Williams, John Garland, to RCA Corporation. Computer with probability means to transfer pages from large memory to fast memory. 3,701,107, 10-24-72, Cl. 340-172.500.
Williams, John Lewis: *See—*
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Williams, John S. Production of fibrous logs by continuously passing slurry through a forming chambers. 3,686,070, 8-22-72, Cl. 162-293.000.
Williams, Joseph Blair, to Du Pont de Nemours, E. I., and Company. Fire-retardant foam articles. 3,686,067, 8-22-72, Cl. 161-160.000.
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Williams, Keith A., to Phillips Petroleum Company. Porous electrode having cavity with impervious dome. 3,691,051, 9-12-72, Cl. 204-284.000.
Williams, Keith S., to United States of America, Army. Flash suppressor assembly for Gatling-type machine guns. 3,705,529, 12-12-72, Cl. 89-14.00b.
Williams, Keith Vaughan: *See—*
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Williams, Kenneth A.; and Stern, David R.; deceased (by Stern, Audrey E.; executrix), to Occidental Petroleum Corporation. Liquid-liquid extraction process for the purification of phosphoric acid. 3,694,153, 9-26-72, Cl. 23-165.000.
Williams, Kenneth Barnett, to International Business Machines Corporation. Card position sensing apparatus. 3,697,707, 10-10-72, Cl. 200-46.000.
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Williams, Kenneth C.; and Cook, Shirl E., to Ethyl Corporation. Organolead magnesium compounds. 3,644,451, 2-22-72, Cl. 260-437.
Williams, Kenneth C., to Ethyl Corporation. Method of making organolead-silicon compounds. 3,644,452, 2-22-72, Cl. 260-437.
Williams, Kenneth C., to Ethyl Corporation. Synthesis of organolead compounds. 3,647,837, 3-7-72, Cl. 260-437.
Williams, Kenneth C.; and Thomas, Wilford H., to Ethyl Corporation. Method of making tetraorganolead compounds. 3,647,838, 3-7-72, Cl. 260-437.
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Williams, Leamon D.; and Jensen, Edward R., to CPC International Inc. Combination of a cross-linked waxy starch and a cross-linked non-waxy starch. 3,666,511, 5-30-72, Cl. 106-210.000.
Williams, Leon, Jr.; and Gerbetz, William. Board game apparatus. 3,647,217, 3-7-72, Cl. 273-134.
Williams, Leonard H. Automatic pipeline straightener and sprinkler head leveler for sprinkler irrigation systems. 3,658,248, 4-25-72, Cl. 239-73.
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Williams, Lynn A., to Anocut Engineering Company. Workpiece holding fixture for electrolytic shaping apparatus. 3,654,122, 4-4-72, Cl. 204-297.
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Williams, Melvin F., to United States of America, Navy. Apparatus for improving the lane resolution capabilities of omega navigation receivers. 3,665,469, 5-23-72, Cl. 343-105.000.
Williams, Merlyn M., to Alcan Research and Development Limited. Treatment of carbon lining from reduction cells. 3,635,408, 1-18-72, Cl. 241-1.
Williams, Merlyn M., to Alcan Research and Development Limited. Treatment of material removed from molten aluminum. 3,660,076, 5-2-72, Cl. 75-68.
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Williams, Neal T., to Sealtronics, Inc. Header having high density conductor arrangement and method of making same. 3,636,235, 1-18-72, Cl. 174-50.56.
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Williams, Richard E.; and Holford, Warren L., to Scope Incorporated. Audio to digital converter. 3,668,559, 6-6-72, Cl. 332-9.00r.
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Williams, Robert A., to Williams Instruments, Inc. Electrical contact test apparatus for cap of a military aircraft ejection rack. 3,641,430, 2-8-72, Cl. 324-51.
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Williams, Robert M., to Genova Products. Plastic pipe fitting and closure. 3,677,301, 7-18-72, Cl. 138-92.000.
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Williams, Willie Vincent. Hand-carried yarn splicing device. 3,690,994, 9-12-72, Cl. 156-433.000.
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Willihnganz, Eugene A., to Eltra Corporation. Method and apparatus for measuring the state of charge of a battery using a reference battery. 3,657,639, 4-18-72, Cl. 324-29.5.
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Willinger, Allan H., to Metaframe Corporation. Aerating device. 3,640,516, 2-8-72, Cl. 261-121.
Willinger, Allan H., to Metaframe Corporation. Automatic siphoning filtration device. 3,669,297, 6-13-72, Cl. 210-169.000.
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Willinger, Allan H., to Metaframe Corporation. Artificial aquarium plant simulating a natural plant. 3,682,753, 8-8-72, Cl. 161-18.000.
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Willis, Cullie B., Jr., to Foster Wheeler Corporation. Apparatus and process for slag deposit removal. 3,701,341, 10-31-72, Cl. 122-392.000.
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Willuweit, Werner, to La Salle Machine Tool, Inc. Air cushion support apparatus for transfer structure. 3,648,852, 3-14-72, Cl. 214-1.
Willy, John Robert; and Blase, Emil F., to Sangamo Electric Company. Sealed casing for electrolytic capacitor with pressure relief vent. 3,688,162, 8-29-72, Cl. 317-230.000.
Willy Whoper, Inc.: *See—*
Coates, Leroy, 3,643,948.
Willyoung, David M.: *See—*
Kudlacik, Henry W.; and Willyoung, David M., 3,702,964.
Willyoung, David M., to General Electric Company. Polyphase generator windings. 3,660,705, 5-2-72, Cl. 310-198.
Wilmarth, Paul Carleton, to RCA Corporation. Horizontal oscillator disabling circuit control apparatus. 3,692,932, 9-19-72, Cl. 178-7.50r.
Wilmarth, Paul Carlton: *See—*
Fitzgerald, William Vincent, Jr.; and Wilmarth, Paul Carlton, 3,688,031.
Wilmes, Raymond A., to Xerox Corporation. Electrostatic label printer. 3,674,352, 7-4-72, Cl. 355-3.000.
Wilmeth, Claude H., to N-S-W Corporation. Wrenching apparatus and method. 3,706,244, 12-19-72, Cl. 81-57.320.
Wilmot, Fullerton Richard D.: *See—*
Cantwell, Thomas C., Jr.; and Wilmot, Fullerton Richard D., 3,683,380.
Wilmot, Richard D.; and Ballantyne, Jack R., to Hughes Aircraft Company. Moving target platform digital video mapper. 3,705,936, 12-12-72, Cl. 343-7.700.
Wilmoth, Frankie W. Tack and saddle rack. 3,688,912, 9-5-72, Cl. 211-3.000.
Wilms, Carl A.: *See—*
Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,648,858.
Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,675,900.
Wilms, Carl Alfred: *See—*
Geczy, Bela; and Wilms, Carl Alfred, 3,691,875.
Nicolson, Garth Fancher; and Wilms, Carl Alfred, 3,704,638.
Wilms, Carl Alfred, to Jackson, Byron, Inc. Reverse stop for power tongs. 3,706,243, 12-19-72, Cl. 81-57.180.
Wilms, Karl-Heinz, to Optische Werke G. Rodenstock. Assembly for a stereoscopic microscope. 3,656,829, 4-18-72, Cl. 350-33.

Wilnau, John A. Concrete building component. 3,654,742, 4-11-72, Cl. 52-744.
Wilner, Leslie B., to Becton Dickinson Electronics Company, mesne. Pressure sensor. 3,638,481, 2-1-72, Cl. 73-141.
Wilputte Corporation, mesne: *See—*
McCullough, Charles D.; and Schroeder, Leo G., 3,633,232.
McCullough, Charles D.; and Schroeder, Leo G., 3,633,233.
McCullough, Charles D., 3,660,859.
McCullough, Charles D., 3,681,201.
Wilsch, Herbert: *See—*
Ehgartner, Gabriele; and Wilsch, Herbert, 3,697,018.
Winkler, Alfred; Wilsch, Herbert; and Winkler, Friedrich, 3,675,992.
Wilsch, Herbert, to Agfa-Gevaert Aktiengesellschaft. Mechanism for threading motion picture film in cinematographic apparatus. 3,672,602, 6-27-72, Cl. 242-192.000.
Wilsch, Herbert; and Muller, Hermann, to Agfa-Gevaert Aktiengesellschaft. Film transporting mechanism for cinematographic apparatus. 3,675,996, 7-11-72, Cl. 352-194.000.
Wilsdon, Thomas A.: *See—*
Collins, James D.; and Wilsdon, Thomas A., 3,673,525.
Wilsdon, Thomas A.; and Collins, James D., to Westinghouse Electric Corporation. Contactor. 3,659,237, 4-25-72, Cl. 335-191.
Wilsher, Rudolph S: *See—*
Kruse, Uno; Herman, Daniel F.; and Wilsher, Rudolph S, 3,681,289.
Wilshin, Frank W.: *See—*
Bennett, John P.; and Wilshin, Frank W., 3,658,272.
Wilshire, Robert A., Jr.: *See—*
Abarotin, Eugene V.; Nicely, Thomas E.; and Wilshire, Robert A., Jr., 3,650,315.
Wilson & Co., Inc., mesne: *See—*
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Wilson & Longbottom Limited: *See—*
Porter, Ian S., 3,665,970.
Porter, Ian S., 3,669,156.
Wilson, Alan: *See—*
Morley, Frederick William Walton; Bennett, George Henry; Harvey, Richard George; and Wilson, Alan, 3,684,857.
Snodgrass, Kenneth William; Steele, William Henry; Wilson, Alan; and Phelps, Ross Leslie, 3,685,613.
Wilson, Alan D.: *See—*
Strope, Douglas H.; and Wilson, Alan D., 3,672,744.
Wilson, Alexander J.; and Dawson, Stuart B., to Girling Limited. Hydraulic braking systems for vehicles. 3,659,421, 5-2-72, Cl. 60-54.5.
Wilson, Alfred L.: *See—*
Ossenkop, Robert J.; and Wilson, Alfred L., 3,680,858.
Wilson, Alonzo A.: *See—*
Prentky, Peter I.; and Wilson, Alonzo A., 3,665,327.
Wilson, Anton, to Bauer, Anton. Motion picture camera. 3,653,752, 4-4-72, Cl. 352-72.
Wilson, Archie R.: *See—*
Slator, Damon T.; and Wilson, Archie R., 3,651,906.
Slator, Damon T.; and Wilson, Archie R., 3,658,270.
Slator, Damon T.; and Wilson, Archie R., 3,690,136.
Wilson, Arthur K. Lighting structure. 3,700,877, 10-24-72, Cl. 240-3.000.
Wilson, Austin F., to General Electric Company. Cam assembly having multiple cams with integral cam positioning means thereon. 3,656,370, 4-18-72, Cl. 74-568.
Wilson, Barrie Alexander, to American Cyanamid Company. Fray resistant catgut sutures. 3,698,853, 10-17-72, Cl. 8-94.110.
Wilson, Benjamin B.; and Wortham, Joseph S., to Allied Chemical Corporation. Urea-containing ruminant feed. 3,644,642, 2-22-72, Cl. 424-319.
Wilson, Benjamin B., to Allied Chemical Corporation. Ruminant feed composition. 3,653,909, 4-4-72, Cl. 99-2.
Wilson, Benjamin John: *See—*
McClincy, Richard J.; Downing, James H.; and Wilson, Benjamin John, 3,660,298.
McClincy, Richard Joseph; Downing, James Herbert; and Wilson, Benjamin John, 3,704,094.
Wilson, Benjamin John; McClincy, Richard J.; and Downing, James Herbert, to Union Carbide Corporation. Process and furnace charge for use in the production of ferrosilicon alloys. 3,704,114, 11-28-72, Cl. 75-3.000.
Wilson, Billy F., to Dresser Industries, Inc. Compensated density logging system having a filter only on the short-spaced detector. 3,654,470, 4-4-72, Cl. 250-83.6.
Wilson, Calvin L., to Reynolds Metals Company. Disposable broiling pan. 3,640,209, 2-8-72, Cl. 99-446.
Wilson, Calvin L., to Reynolds Metals Company. Cooking pan having article-supporting wall above bottom wall. 3,704,142, 11-28-72, Cl. 99-446.000.
Wilson, Calvin L.; and Fox, John H., Jr., to Reynolds Metals Company. Method of making actuating capsule for fluid pressure regulator. 3,707,028, 12-26-72, Cl. 29-404.000.
Wilson, Charles: *See—*
Alger, Philip Langdon; and Wilson, Charles, 3,643,117.
Wilson, Charles A.; and Villo, Joseph P. Non-rotatable fastener. 3,687,501, 8-29-72, Cl. 287-189.36f.
Wilson, Charles B.: *See—*
Dreckmann, Hubert; Wilson, Charles B.; and Wagenblast, Richard K., 3,696,290.
Wilson, Charles P., Jr.: *See—*
Blazek, James J.; Baker, Richard W.; and Wilson, Charles P., Jr., 3,660,274.
Wilson, Charles V.: *See—*
Ford, John A., Jr.; and Wilson, Charles V., 3,661,899.
Wilson, Christopher George: *See—*
Paddison, Eric; Wilson, Christopher George; and Gray, Frederick Martin, 3,699,431.
Wilson, Craig L.: *See—*
Bright, James A.; and Wilson, Craig L., 3,684,964.
Wilson, David A.: *See—*
James, Robert C.; Wilson, David A.; and Pringle, Frank E., Jr., 3,664,086.
Wilson, David E.: *See—*
Thompson, Gene C.; Radomski, Joseph E.; and Wilson, David E., 3,680,220.
Wilson, David G., to Massachusetts Institute of Technology. Electric guideway transportation system. 3,673,966, 7-4-72, Cl. 104-1.000.
Wilson, David W.: *See—*
Muny, Richard P.; and Wilson, David W., 3,639,500.
Wilson, Denney R., to Dana Corporation. Selective front wheel drive hub. 3,669,476, 6-13-72, Cl. 287-53.00r.
Wilson, Dennis L., to Sylvania Electric Products, Inc. Signal processor. 3,691,549, 9-12-72, Cl. 340-261.000.
Wilson, Donald C., to FMC Corporation. Control of hydrogen formation in pouches during heat treatment. 3,634,099, 1-11-72, Cl. 99-171.
Wilson, Donald C., to FMC Corporation. Sealing method and apparatus. 3,650,088, 3-21-72, Cl. 53-127.
Wilson, Donald C., to FMC Corporation. Method of purging air from containers. 3,658,562, 4-25-72, Cl. 99-215.
Wilson, Donald C., to FMC Corporation. Apparatus for preserving delicate food products. 3,699,875, 10-24-72, Cl. 99-249.000.
Wilson, Donald C., to FMC Corporation. Cooking and freezing products in flexible containers. 3,704,139, 11-28-72, Cl. 99-192.00r.
Wilson, Donald E.: *See—*
Bergland, Glenn D.; and Wilson, Donald E., 3,662,161.
Wilson, Donald J. M. Sailing craft. 3,691,976, 9-19-72, Cl. 114-39.000.
Wilson, Donald James; and Kenyon, Derek, to Imperial Chemical Industries Limited. Macrofilamentary tire yarns. 3,638,706, 2-1-72, Cl. 152-359.
Wilson, Donald L.; and Brealey, Graham J., to Courtaulds Limited. Wet-spinning of polyacrylonitrile. 3,632,699, 1-4-72, Cl. 264-38.
Wilson, Donald R.: *See—*
Gilbert, Lloyd A., 3,658,103.
Wilson, Donald R., to Pacific Plantronics, Inc. Telephone user set. 3,691,311, 9-12-72, Cl. 179-81.00b.
Wilson, Donald Richard, to Du Pont de Nemours, E. I., and Company. Lewis acid catalyzed diacyl chloride-diphenol polyesterification. 3,702,838, 11-14-72, Cl. 260-47.00c.
Wilson, Doyne L.; and Bennett, Robert B., to Oil Base, Inc. Drilling fluid and method of use. 3,634,235, 1-11-72, Cl. 252-8.5.
Wilson, Earl, to Sales & Services, Inc. Handle grip for bails. 3,635,382, 1-18-72, Cl. 224-45.
Wilson, Earl D.: *See—*
Katerndahl, Dean R.; Wilson, Earl D.; Macalalad, Fidel V.; and Ring, Gene C., 3,698,396.
Wilson, Earl D.; and Ellmann, Norbert W., to Abbott Laboratories. Blood collection assembly. 3,654,924, 4-11-72, Cl. 128-214.
Wilson, Earl David: *See—*
Chittenden, Richard Marion; Whitton, Alden William; Macalalad, Fidel Villaluna; Massman, Richard; and Wilson, Earl David, 3,690,315.
Wilson, Edgar R.: *See—*
Lubowitz, Hyman R.; Wilson, Edgar R.; Jones, John F.; Burns, Eugene A.; and Braswell, Troy F., 3,632,428.
Wilson, Edmund B., III: *See—*
Davidson, Donald R.; and Wilson, Edmund B., III, 3,702,102.
Wilson, Edward L.: *See—*
Fiocco, Robert J.; and Wilson, Edward L., 3,687,837.
Wilson, Edward L.; and Pennington, Robert E., to Esso Research and Engineering Company. Coal liquefaction at staged temperatures. 3,692,662, 9-19-72, Cl. 208-8.000.
Wilson, Edward S. Ski and pole grips. 3,675,835, 7-11-72, Cl. 224-45.00s.
Wilson, Eleanor A. Article transporting device. 3,693,994, 9-26-72, Cl. 280-36.00r.
Wilson, Eric J.; and Briggs, Alan Henry, to British Steel Corporation. Resilient railway bogie side bearings. 3,680,490, 8-1-72, Cl. 105-199.0cb.
Wilson, Eric John; Brigg, Alan Henry; and Timmons, Eric, to English Steel Corporation, Limited. Articulatable railway bogies. 3,705,555, 12-12-72, Cl. 105-196.000.

Wilson, Eugene M.: *See—*
Fryrear, Max D.; and Wilson, Eugene M., 3,653,451.

Wilson, Farris H., Jr., to Goodyear Tire & Rubber Company, The. Tetrahydroquinoxaline aldehyde reaction products as antioxonants. 3,706,742, 12-19-72, Cl. 260-250.00r.

Wilson, Floyd A.: *See—*
Hansen, Theodore E.; and Wilson, Floyd A., 3,699,238.

Wilson, Fred A.: *See—*
Moore, Glenn E.; Wilson, Fred A.; and Wood, Chester W., 3,646,974.

Wilson, Fred A.; and Allen, Norman T., to Dover Corporation. Cap and sealing means therefor. 3,672,403, 6-27-72, Cl. 138-89.000.

Wilson, Gardner P., to Gould, Inc., mesne. Linear three-dimensional gaging and form measuring machine. 3,675,333, 7-11-72, Cl. 33-23.00c.

Wilson, Geoffrey, to B. & S. Massey Limited. Upsetting or forging machines. 3,703,823, 11-28-72, Cl. 72-406.000.

Wilson, George, to Acme Visible Records, Inc. Document conveying means. 3,658,170, 4-25-72, Cl. 198-131.

Wilson, George D., to Sperry Rand Corporation. Method of forming a tunnel structure for a magnetic plated wire memory array. 3,631,592, 1-4-72, Cl. 29-604.

Wilson, George E. Fuse removal tool. 3,678,789, 7-25-72, Cl. 81-64.000.

Wilson, George W., III: *See—*
Coats, John C.; and Wilson, George W., III, 3,674,984.

Wilson, Glenn C. Carrying handles. 3,680,752, 8-1-72, Cl. 224-56.000.

Wilson, Gordon Shirley, to Corporation of the City of Coventry. Rotary engines. 3,642,391, 2-15-72, Cl. 418-145.

Wilson, Harold W., to Wilson Laboratories, Inc. Process for the preparation of heteropoly acid complex compounds of metaphosphoric metasilic acid, metaphosphoric acid and phosphorous pentoxide. 3,652,425, 3-28-72, Cl. 252-194.

Wilson, Harry L., to Cummins Engine Company, Inc. Variable compression ratio piston. 3,656,412, 4-18-72, Cl. 92-82.

Wilson, Haydn: *See—*
Record, Robert George Hamilton; Wilson, Haydn; and Rudd, Derek Austen, 3,645,875.

Wilson, Henry Allen. Antifriction ball retainer and spacer. 3,687,393, 8-29-72, Cl. 242-96.000.

Wilson, Henry Allen. Manual computing device. 3,688,418, 9-5-72, Cl. 35-33.00s.

Wilson, Henry Allen. Combined soap cake dish and container. 3,688,895, 9-5-72, Cl. 206-37.00r.

Wilson, Henry H. Athletic shoe cleat. 3,656,245, 4-18-72, Cl. 36-67.

Wilson, Hobert Earl, 1/2 to Watson, Ralph C. Dual intensity signal lamp. 3,638,068, 1-25-72, Cl. 315-67.

Wilson, Homer M., to Petrolite Corporation. Probe body for corrosion tests. 3,639,876, 2-1-72, Cl. 338-13.

Wilson, Homer M., to Petrolite Corporation. Instrument for measuring conductance or capacitance of an electrical load during operation. 3,644,187, 2-22-72, Cl. 204-186.

Wilson, Homer M., to Petrolite Corporation. Corrosion rate meter. 3,661,750, 5-9-72, Cl. 204-195.

Wilson, Homer M., to Petrolite Corporation. Corrosion rate meter. 3,661,751, 5-9-72, Cl. 204-195.

Wilson, Howard W. Coded articles. 3,632,995, 1-4-72, Cl. 235-61.12.

Wilson, Ian C.: *See—*
Prange, Arthur J., Jr.; Wilson, Ian C.; and Lipton, Morris A., 3,689,669.

Wilson, James A.: *See—*
Garabrant, Arthur R.; Beerbower, Alan; and Wilson, James A., 3,696,661.

Wilson, James C., to Westinghouse Electric Corporation. Fuse device. 3,657,679, 4-18-72, Cl. 337-244.

Wilson, James D., to Banner Metals, Inc. Collapsible stand. 3,659,816, 5-2-72, Cl. 248-97.

Wilson, James D., to Banner Metals, Inc. Cooking rack-pan combination. 3,677,172, 7-18-72, Cl. 99-347.000.

Wilson, James Dennis: *See—*
Hobbs, Charles F.; and Wilson, James Dennis, 3,655,690.

Wilson, James F., to Bell & Howell Company. Apparatus for controlling a plurality of a light sources. 3,643,294, 2-22-72, Cl. 178-5.4.

Wilson, James H.: *See—*
Priestley, Hill M.; and Wilson, James H., 3,660,497.
Priestley, Hill M.; and Wilson, James H., 3,670,027.

Wilson, James Mark. Illusory apparatus. 3,632,108, 1-4-72, Cl. 272-13.

Wilson, James Mark. Magical display apparatus. 3,638,938, 2-1-72, Cl. 272-13.

Wilson, James N.: *See—*
McKinnon, Murdoch G.; Wilson, James N.; and Besant, Robert W., 3,690,339.

Wilson, James R.: *See—*
Moertel, George B.; and Wilson, James R., 3,672,008.

Wilson, Jerry M., to Pillsbury Company, The. Method and apparatus for handling fowl. 3,704,688, 12-5-72, Cl. 119-22.000.

Wilson, Joan L., to Goodyear Tire & Rubber Company, The. Amine salts of polyhydrosulfuric acids as shortstopping agents for emulsion polymerizations. 3,697,491, 10-10-72, Cl. 260-82.300.

Wilson, Joe C., Jr.: *See—*
Parkin, William J.; and Wilson, Joe C., Jr., 3,700,905.

Wilson, John E.: *See—*
MacLellan, James A.; and Wilson, John E., 3,685,654.

Wilson, John F.: *See—*
Andrews, Harry N.; Patterson, John F.; and Wilson, John F., 3,647,622.
Gunning, William F.; Wilson, John F.; and Bertram, Charles C., 3,654,603.

Wilson, John Francis: *See—*
Goodard, John; Wilson, John Francis; and Glew, Derek Aubrey, 3,696,014.

Wilson, John Hart; deceased (by Egan, Evelyn Wilson; Sherrill, J. N., Jr.; and Hulver, Virginia Wilson; executors). Winching system for waterborne vessels. 3,636,905, 1-25-72, Cl. 114-43.5.

Wilson, John I.; and Gary, Wardell, to Westinghouse Electric Corporation. Electrical apparatus including interlocking circuit for ground fault sensor. 3,697,810, 10-10-72, Cl. 317-18.00d.

Wilson, John R.; and Shariff, Sadig A., to Westinghouse Electric Corporation. Switch-operating mechanism with particular application thereof to potential-transformer disconnecting assembly. 3,676,749, 7-11-72, Cl. 317-103.000.

Wilson, John R.; and Niemoller, Arthur B., to Westinghouse Electric Corporation. Isolating switch. 3,700,840, 10-24-72, Cl. 200-48.00r.

Wilson, John T.: *See—*
Hendry, Allen J.; and Wilson, John T., 3,634,729.

Wilson, John T., to Westinghouse Electric Corporation. Circuit breaker including improved overcurrent protective device. 3,634,730, 1-11-72, Cl. 317-38.

Wilson, John T.; and Engel, Joseph C., to Westinghouse Electric Corporation. Circuit breaker including improved ground fault protective device. 3,660,722, 5-2-72, Cl. 317-18.

Wilson, John W., Jr.: *See—*
Boghosian, Malcolm P.; and Wilson, John W., Jr., 3,702,364.

Wilson, Jonathan W.: *See—*
Desjardins, Stanley P.; Canfield, Alan R.; and Wilson, Jonathan W., 3,696,999.

Wilson, Joseph, 1/2 to MacGreene, Joseph. Universal telescoping locking bar for vending machines. 3,665,736, 5-30-72, Cl. 70-78.

Wilson, Joseph F., to Phillips Petroleum Company. Soil additives. 3,660,068, 5-2-72, Cl. 71-34.

Wilson, Joseph F.; and Southworth, Wallace D., to Phillips Petroleum Company. Limestone granulation. 3,692,511, 9-19-72, Cl. 71-29.000.

Wilson, Joseph G., to Shell Oil Company. Centrifugal separator vessel. 3,631,657, 1-4-72, Cl. 55-348.

Wilson, Katherine W.: *See—*
Gamarra, Jose P.; Swidler, Ronald; and Wilson, Katherine W., 3,653,805.
Swidler, Ronald; and Wilson, Katherine W., 3,706,526.

Wilson, Keith: *See—*
Thom, Gee Wing; and Wilson, Keith, 3,666,871.

Wilson, Kenneth R.; and Kennedy, Robert M., to FMC Corporation. 2,3-Dihydro-3,3-dimethyl-5-benzofuranyl methylcarbamate. 3,655,696, 4-11-72, Cl. 260-346.2.

Wilson, Kenneth R. A.: *See—*
Bonn, Clifford; and Wilson, Kenneth R. A., 3,655,152.

Wilson Laboratories, Inc.: *See—*
Wilson, Harold W., 3,652,425.

Wilson, Larry E.: *See—*
Johnson, Gary N.; and Wilson, Larry E., 3,703,681.

Wilson, Laurence M.: *See—*
Applequist, Roy A.; and Wilson, Laurence M., 3,665,434.

Wilson, Lee, Engineering Company, Inc.: *See—*
Ford, Joseph R., 3,703,276.
Hicks, Gerald W., 3,705,253.

Wilson, Leon Ray. Convertible vehicle. 3,651,879, 3-28-72, Cl. 180-5.

Wilson, Leroy E.: *See—*
Capell, A. Earl; and Wilson, Leroy E., 3,679,515.

Wilson, Leslie Peter Stuart, to Gimda Inc. Trench cutter using endless cutter chain. 3,659,364, 5-2-72, Cl. 37-83.

Wilson Lighting Limited: *See—*
Shepherd, Charles G., 3,654,849.
Shepherd, Charles G., 3,665,838.

Wilson, Lois E., to Corning Glass Works. Strengthened photosensitive opal glass. 3,663,193, 5-16-72, Cl. 65-30.

Wilson, Martin Norman; Smith, Peter Faraday; Walters, Colin Russell; Lewin, John David; Broomfield, Robert Walter; and Graham, Robert Leslie, to Science Research Council and Imperial Metal Industries (Kynoch) Limited. Superconducting electrical conductors.3,662,093, 5-9-72, Cl. 174-128.000.

Wilson, Matthew W., to Goodrich, B. F., Company, The. Process for adhering polyester tire cord to rubber. 3,663,268, 5-16-72, Cl. 117-76.00t.

Wilson, Maywood L., to United States of America, National Aeronautics and Space Administration. Nondestructive spot test method for titanium and titanium alloys. 3,701,631, 10-31-72, Cl. 23-230.00r.
Wilson, Michael C. Multi-purpose articles of furniture. 3,672,720, 6-27-72, Cl. 297-118.000.
Wilson, Milton A. Insecticide and repellant holder for attachment to garbage can lid. 3,661,326, 5-9-72, Cl. 239-60.
Wilson, Oran W., to Texas Instruments, Incorporated. Photoconductive detector material. 3,674,712, 7-4-72, Cl. 252-501.000.
Wilson, Paul I.: *See—*
Pope, George A.; Vaughan, George; and Wilson, Paul I., 3,632,681.
Wilson, Paul O., to Baltimore Business Forming Inc. Continuous forms envelope converter system. 3,683,756, 8-15-72, Cl. 93-63.00r.
Wilson, Peter A.: *See—*
Rainer, Norman B.; and Wilson, Peter A., 3,674,722.
Wilson, Peter C.; and Hughart, Robert P. Apparatus for centrifugally removing liquid from a mixture. 3,642,139, 2-15-72, Cl. 210-213.
Wilson Pharmaceutical & Chemical Corporation: *See—*
Johnsen, Vernon L.; and Burnett, Raymond S., 3,683,939.
Wilson, Phillip M. Electrode holder for arc welding. 3,641,310, 2-8-72, Cl. 219-127.
Wilson, Pryce. Prefabricated modular building. 3,660,952, 5-9-72, Cl. 52-81.
Wilson, Quintus C., to United States of America, Air Force. Satellite communications system. 3,678,387, 7-18-72, Cl. 325-4.000.
Wilson, Ray. Overhead cab crane control structure. 3,675,786, 7-11-72, Cl. 212-127.000.
Wilson, Ray I.: *See—*
Marovich, Frank A.; and Wilson, Ray I., 3,655,546.
Wilson, Raymond F.: *See—*
Hess, Howard V.; Wilson, Raymond F.; and Cole, Edward L., 3,652,405.
Patel, Jitendra A.; Herbstman, Sheldon; Peck, Reese A.; and Wilson, Raymond F., 3,668,117.
Peck, Reese A.; and Wilson, Raymond F., 3,671,421.
Wilson, Raymond F.; Peck, Reese A.; and Guptill, Frank E., Jr., to Texaco Inc. Production of low sulfur fuel oil. 3,658,681, 4-25-72, Cl. 208-211.
Wilson, Raymond F.; Peck, Reese A.; and Guptill, Frank E., Jr., to Texaco Inc. Conversion of heavy petroleum oils. 3,671,420, 6-20-72, Cl. 208-61.000.
Wilson, Richard A.: *See—*
Evers, William J.; Katz, Ira; Wilson, Richard A.; and Theimer, Ernst T., 3,647,792.
Katz, Ira; Wilson, Richard A.; and Giacino, Christopher, 3,681,088.
Wilson, Richard C., to Aluminum Company of America. Ball bat construction. 3,703,290, 11-21-72, Cl. 273-72.50a.
Wilson, Richard D.: *See—*
Pilipovich, Donald; and Wilson, Richard D., 3,697,394.
Schack, Carl J.; and Wilson, Richard D., 3,649,222.
Schack, Carl J.; Pilipovich, Donald; and Wilson, Richard D., 3,694,172.
Wilson, Richard F.: *See—*
Allen, Clifford W.; and Wilson, Richard F., 3,653,476.
Wilson, Richard John Hugh: *See—*
Lilly, Malcolm Douglas; Kay, Garth; Wilson, Richard John Hugh; and Sharp, Alister Kimball, 3,674,767.
Wilson, Richard L.: *See—*
Mapother, Thomas C.; and Wilson, Richard L., 3,699,406.
Wilson, Richard W., to Motorola, Inc. Crucible electron beam evaporation of aluminum. 3,649,734, 3-14-72, Cl. 13-31.
Wilson, Richmond W.: *See—*
Ihrig, Allen C.; and Wilson, Richmond W., 3,645,712.
Wilson, Robert C.: *See—*
Henderson, Larry D.; and Wilson, Robert C., 3,702,353.
Wilson, Robert C., Jr., to Mobil Oil Corporation. Clinoptilolite blends with shape-selective catalyst. 3,640,905, 2-8-72, Cl. 252-455.
Wilson, Robert G.: *See—*
Ennis, Robert M., Jr.; and Wilson, Robert G., 3,638,111.
Wilson, Robert G. Self-service food warmer assembly. 3,632,968, 1-4-72, Cl. 219-214.
Wilson, Robert G. Barbecue oven with a displaceable panel. 3,649,812, 3-14-72, Cl. 219-396.
Wilson, Robert G. Barbecue machine edible carrier assembly. 3,706,272, 12-19-72, Cl. 99-340.000.
Wilson, Robert M.: *See—*
Halopoff, William E.; and Wilson, Robert M., 3,637,076.
Wilson, Robert M., to Dare Products, Incorporated. Reversibly mountable insulator. 3,652,780, 3-28-72, Cl. 174-45.
Wilson, Robert M., to Dare Products, Incorporated. Self-supporting electric fence post insulator. 3,654,383, 4-4-72, Cl. 174-163.
Wilson, Robert M., to Dare Products, Incorporated. Integral electrical insulator and supporting member for electrical wire fence. 3,689,686, 9-5-72, Cl. 174-166.00r.
Wilson, Robert W., to Bouligny, R. H., Inc. Tobacco bulk curing system with improved curing air flow rate control. 3,664,034, 5-23-72, Cl. 34-225.
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Wilson, Thomas: *See—*
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Wilson, Thomas B., Jr. Bulk cargo safety barrier apparatus. 3,699,912, 10-24-72, Cl. 114-74.00r.
Wilson, Thomas L., to Chemetron Corporation. Method of and apparatus for controlling oscillator efficiency. 3,638,136, 1-25-72, Cl. 331-74.
Wilson, Vernon Columbus. True self-heating composition. 3,702,302, 11-7-72, Cl. 252-70.000.
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Wilson, Walter A., to National Steel Corporation. Current transfer measurement along a linearly extended contact. 3,645,876, 2-29-72, Cl. 204-211.
Wilson, Warren Thomas, to Gillette Company, The. Molding machine monitoring system. 3,642,401, 2-15-72, Cl. 425-137.
Wilson, William B., to Shell Oil Company. Fluoride-containing crystalline alumino-silicates. 3,702,312, 11-7-72, Cl. 252-442.000.
Wilson, William D.: *See—*
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Wilson, Woodrow S., to Polytop Corporation. Initially sealed closures with sealing structures. 3,690,514, 9-12-72, Cl. 221-81.000.
Wilson, Woodrow S., to Polytop Corporation. Closure with tear-off skirt. 3,707,240, 12-26-72, Cl. 215-41.000.
Wilson, Zade. Ignition switching device. 3,639,772, 2-1-72, Cl. 307-10.
Wilt, Marvin D., to Teledyne Industries, Inc. Intrusion detector responsive to change in dominant frequency. 3,686,658, 8-22-72, Cl. 340-261.000.
Wilt, Mason S., to Phillips Petroleum Company. Treating polybutadiene. 3,668,162, 6-6-72, Cl. 260-27.
Wilt, Robert E., to Sperry Rand Corporation. Radiometer gain control reference. 3,693,095, 9-19-72, Cl. 325-363.000.
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Wilton, Henry T., to American Optical Corporation. Dual magnification projection lens. 3,675,998, 7-11-72, Cl. 353-101.000.
Wilton, Inga Elna Maria; and Bauren, Karl Lennart Emanuel, to Margarinbolaget AB. Pourable margarine. 3,682,656, 8-8-72, Cl. 99-122.000.
Wilton, Norman M., to Wilton Enterprises, Inc. Multiple line decorating device. 3,664,794, 5-23-72, Cl. 425-192.000.
Wilton, Ralph P.; and Fitzpatrick, John J., to Wilton Brass Company. Decorative food and beverage serving means. 3,649,423, 3-14-72, Cl. 161-5.
Wilton, Raymond C., to Singer Company, The. Variable terrain model. 3,668,790, 6-13-72, Cl. 35-12.00n.
Wilton, Raymond Charles; and Astley, Peter James, to Miles Electronics Limited. Terrain model viewing device. 3,643,345, 2-22-72, Cl. 35-12.
Wiltron Company: *See—*
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Wiltse, Donald G., to Topper Corporation. Tip-up. 3,698,117, 10-17-72, Cl. 43-17.000.
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Wiltshire, Arthur J.; Ranallo, Henry U.; and Czumber, Frank E., to Structural Fibers, Inc. Method of making a fiber preform. 3,654,002, 4-4-72, Cl. 156-62.4.
Wiltshire, Arthur J., to Structural Fibers, Inc. Method of inserting a flexible preform in a mold. 3,673,673, 7-4-72, Cl. 29-451.000.
Wiltshire, Arthur J., to Structural Fibers, Inc. Sliding core means for the manufacture of fiber-reinforced plastic tanks. 3,674,394, 7-4-72, Cl. 425-112.000.
Wiltshire, Arthur J., to Structural Fibers, Inc. Preform roller. 3,674,599, 7-4-72, Cl. 425-80.000.
Wiltshire, Arthur J. Lamp construction. 3,683,175, 8-8-72, Cl. 240-108.00r.
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Wilwerding, Dennis J., to Honeywell Inc. Rapid recycle oscillator with cutoff and thermal protection. 3,679,991, 7-25-72, Cl. 331-62.000.
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Winburn, Lloyd Earl; and Cunningham, Jack B.; deceased (by Cunningham, Ethel Peggy; executrix). Method and apparatus for cleaning materials. 3,687,729, 8-29-72, Cl. 134-21.000.
Wince, Vearl S., to Holophane Company, Inc. Veiling glare control with luminaires. 3,647,148, 3-7-72, Cl. 240-93.
Winchklhofer, Robert Charles; Weedon, Gene Clyde; and Collingwood, George Howard, to Allied Chemical Corporation. Process for shaping textile articles using fluid thermoforming techniques. 3,673,295, 6-27-72, Cl. 264-89.000.
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Wincierz, Peter; Ruhle, Manfred; Reddemann, Bernhard H.; Schirra, Manfred; and Bohm, Horst Otto, to Metallgesellschaft Aktiengesellschaft. Vanadium-base alloy. 3,635,700, 1-18-72, Cl. 75-134.
Wincierz, Peter; Ruhle, Manfred; Kuchler, Heinz; Borgstedt, Hans Ulrich; and Bohm, Horst Otto. Vanadium-base alloy having a high creep-rupture strength and an improved resistance to corrosion. 3,695,866, 10-3-72, Cl. 75-134.00v.
Winckhofer, Robert C.; and Weedon, Gene C., to Allied Chemical Corporation. Process for shaping fabric articles. 3,655,858, 4-11-72, Cl. 264-230.
Wind, Harold. Single piece blister package. 3,645,384, 2-29-72, Cl. 206-45.34.
Wind, Robert H.: *See—*
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Windemuth, Kenneth C. Boat transport device. 3,671,056, 6-20-72, Cl. 280-47.320.
Winden, Johannes Bernardus Van der, to Stork-Amsterdam N.V. Device for filling advancing carriers with containers. 3,687,259, 8-29-72, Cl. 198-22.00r.
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Windholz, Thomas B.; Patchett, Arthur A.; and Fried, John, to Merck & Co., Inc. 17α-Substituted 13-alkyl-17β-hydroxygona-4,9-dien-3-ones and 17β-alkanoates. 3,642,841, 2-15-72, Cl. 260-397.4.
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Gordon, William F.; and Newman, James W., 3,655,140.
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Newman, James W.; Bavaro, Nicholas M.; and Wagner, William A., 3,666,200.
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Windish, Willis E.: *See—*
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Windsor, Lynne E. Electric engine cooling jacket heater. 3,646,314, 2-29-72, Cl. 219-208.
Windstrup, Robert F.; and Chebuhar, Charles J., to Continental Can Company, Inc. Egg carton denester machine. 3,701,440, 10-31-72, Cl. 214-8.50a.
Wine, Edward E. Fuel oil supply systems. 3,658,089, 4-25-72, Cl. 137-590.
Wine, Robert R.; and Jacobsen, Jerome G., to Westinghouse Electric Corporation. Agitator for a washing machine. 3,641,791, 2-15-72, Cl. 68-4.
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Wineland, William H.; deceased (by Wineland, Elizabeth R.; executrix); Goff, Frank V.; and Stevenson, Fred, to Dow Chemical Company, The. Vinylidene chloride polymer compositions containing plasticized polyvinyl chloride. 3,662,028, 5-9-72, Cl. 260-899.
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Wines, David D. Coiling clip for coiling and storing linear flexible material. 3,636,595, 1-25-72, Cl. 24-81.
Winey, James M.; and Winey, Karen L. Reaction game apparatus. 3,661,387, 5-9-72, Cl. 273-1.
Winey, James M., to Magnepan Incorporated. Electromagnetic transducer. 3,674,946, 7-4-72, Cl. 179-115.500.
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Winfree, Jimmie J., to Winfree Associates, Inc. Brick wall construction. 3,641,731, 2-15-72, Cl. 52-747.
Winfree, Jules P.; Todd, Herbert E.; and McComas, Charles C., to United Aircraft Corporation. Coating of titanium alloys. 3,640,778, 2-8-72, Cl. 148-6.
Winfree, Jules P., to United Aircraft Corporation. Process for plating titanium. 3,647,647, 3-7-72, Cl. 204-32.
Winfree, Louise W.: *See—*
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Winfrey, Hal C. Closure with removal means. 3,653,530, 4-4-72, Cl. 215-43.
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Wingerd, Winston Harold, to Borden, Inc. Protein separation from whey using a solubilized phosphate. 3,637,643, 1-25-72, Cl. 260-122.
Winget, Clifford L.; Gibson, George W.; and Shultz, William S., to United States of America, Navy. Underwater rock core sampling device and method of use thereof. 3,664,438, 5-23-72, Cl. 175-6.000.
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Wingler, Frank; Dietrich, Werner; Bartl, Herbert; and Kraft, Karl-Josef, to Farbenfabriken Bayer Aktiengesellschaft. Flameproofed organic synthetic resins. 3,655,589, 4-11-72, Cl. 260-2.5.
Wingler, Frank; Brudermanns, Karola; and Bartl, Herbert, to Bayer Aktiengesellschaft. Thermally stable vinyl chloride copolymers. 3,705,883, 12-12-72, Cl. 260-80.750.
Wingler, Frank; and Bartl, Herbert, to Bayer Aktiengesellschaft. Telomers of hydroxymethyl norbornene. 3,707,567, 12-26-72, Cl. 260-617.00f.
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Wininger, John M., Jr., to Eastman Kodak Company. Continuous process of removing surface water from plastic sheet material. 3,698,096, 10-17-72, Cl. 34-9.000.
Winitz, Milton, to Morton-Norwich Products, Inc., mesne. Amino acid food composition. 3,697,287, 10-10-72, Cl. 99-1.000.
Winitz, Milton, to Morton-Norwich Products, Inc., mesne. Process for making nutrient composition. 3,698,912, 10-17-72, Cl. 99-14.000.
Winitz, Milton, to Morton-Norwich Products, Inc., mesne. Process for making amino acid composition. 3,701,666, 10-31-72, Cl. 99-1.000.
Winkel, Jan Te, to U.S. Philips Corporation. Difference amplifier. 3,684,971, 8-15-72, Cl. 330-30.00d.
Winkel, Jan Te, to U.S. Philips Corporation. Difference amplifier. 3,688,209, 8-29-72, Cl. 330-30.00d.
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Winkelmann, Herbert E., to General Motors Corporation. Window wiper system. 3,689,955, 9-12-72, Cl. 15-250.300.
Winkelmann, Herbert E.; and Bodem, Roy C., to General Motors Corporation. Windshield wiper unit. 3,693,209, 9-26-72, Cl. 15-250.210.
Winker, Bernard L., to International Harvester Company. Power pitching bullgrader. 3,655,000, 4-11-72, Cl. 172-804.
Winkin, Justin P., to Foster Wheeler Corporation. Apparatus and process for slag deposit removal. 3,661,124, 5-9-72, Cl. 122-392.
Winkin, Justin P., to Foster Wheeler Corporation. Apparatus and process for slag reduction in a vapor generator. 3,662,719, 5-16-72, Cl. 122-235.
Winklebleck, Paul K., to Sylvania Electric Products, Inc. Zero force connector. 3,636,499, 1-18-72, Cl. 339-75.
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Winkler, Alfred; Theer, Anton; Zanner, Johann; and Hennig, Fridolin, to Agfa-Gevaert Aktiengesellschaft. Camera operating device. 3,668,989, 6-13-72, Cl. 95-11.00r.
Winkler, Alfred; Wilsch, Herbert; and Winkler, Friedrich, to Agfa-Gevaert Aktiengesellschaft. Projector for use with cassettes for motion picture film. 3,675,992, 7-11-72, Cl. 352-72.000.
Winkler, Alfred; and Zanner, Johann, Jr., to Agfa Aktiengesellschaft. Projector for use with containers for motion picture film. 3,692,391, 9-19-72, Cl. 352-123.000.
Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with impeller-operated source of artificial light. 3,699,860, 10-24-72, Cl. 95-11.50r.
Winkler, Alfred; and Wagensonner, Eduard, to Agfa-Gevaert Aktiengesellschaft. Automatic switching arrangement for motion picture film projectors. 3,702,728, 11-14-72, Cl. 352-92.000.
Winkler, Alfred; Zanner, Johann; Fischern, Bernhard V.; and Fuchsle, Klaus, to Agfa-Gevaert Aktiengesellschaft. Motion picture projector. 3,704,941, 12-5-72, Cl. 352-92.000.
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Winkler, Charles L., to Westinghouse Electric Corporation. Frost detector for refrigeration system. 3,643,457, 2-22-72, Cl. 62-140.
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Winkler, De Loss E., to Shell Oil Company. Selectively hydrogenated block copolymers. 3,700,748, 10-24-72, Cl. 260-879.000.

Winkler, Deloss E., to Shell Oil Company. Hydrohalogenated selectively hydrogenated block copolymers. 3,686,366, 8-22-72, Cl. 260-880.00b.
Winkler, Edward D., to Anderson Power Products, Inc. Indexing means for electrical connectors. 3,654,586, 4-4-72, Cl. 339-49.
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Winn, Oliver H., to General Electric Company. Automatic sweep electronic counter measures system. 3,670,333, 6-13-72, Cl. 343-18.
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Winnard, James R., to International Business Machines Corporation. Antisaturation technique for TTL circuits. 3,693,032, 9-19-72, Cl. 307-299.000.
Winne, John R., to Erie Engineering Company. Vacuum workpickup attachment for work transfer device. 3,648,853, 3-14-72, Cl. 214-1.
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Winslow, Alfred Edwards. Epoxidized polyamide resin forming stable aqueous solutions of high concentration. 3,694,390, 9-26-72, Cl. 260-29.10r.
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Winstead, Thomas W. Method of producing a skin-covered foamed thermoplastic. 3,670,059, 6-13-72, Cl. 264-48.000.
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Winter, Joseph, to Olin Corporation. Method of producing a deep drawn composite article. 3,664,890, 5-23-72, Cl. 148-11.50a.
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Winter, Max; Gautschi, Fritz; Flament, Ivon; Stoll, Max; and Irving, Goldman M., to Firmenich & Cie. Flavor modified soluble coffee. 3,702,253, 11-7-72, Cl. 99-71.000.
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Winter, Werner; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; and Ribbentrop, Annemarie, to Boehringer Mannheim G.m.b.H. Tricyclic aminomethyl derivatives. 3,639,423, 2-1-72, Cl. 260-328.
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Winters, Paul N., to Hughes Aircraft Company. Automatic equalizer for communication channels. 3,649,916, 3-14-72, Cl. 325-42.
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Wise, Cecil S., to Fiber Controls Corporation. Material distributing system. 3,671,078, 6-20-72, Cl. 302-28.000.
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Witte, Josef; Haas, Friedrich; and Marwede, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Process for preparing oil-extended rubber. 3,687,889, 8-29-72, Cl. 260-30.600.
Witte, Josef; Pampus, Gottfried; Schon, Nikolaus; and Marwede, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Regulation of molecular weight of products obtained by the ring opening polymerisation of cycloolefines. 3,692,760, 9-19-72, Cl. 260-93.100.
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Witte, Robert S., to TRW Inc. Electrostatic gas by-pass ion lasers. 3,699,470, 10-17-72, Cl. 331-94.500.
Witte, Wolfgang; and Stenz, Herbert, to Bodenseewerk Perkin-Elmer & Co., GmbH. Monochromator slit systems. 3,664,742, 5-23-72, Cl. 356-80.
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Wittel, Karl, to Industrie-Hartverchromung Praezisionsmechanik G.m.b.H. Process and apparatus of plating enclosed vessels. 3,644,182, 2-22-72, Cl. 204-26.
Wittemer, William C. Safety closure. 3,703,975, 11-28-72, Cl. 215-9.000.
Witten-Annen, Hans Lewer; Dust, Hanspeter; and Thonnes, Martin, to Chemische Fabrik Kalk GmbH. Medium for consolidating dust in coal-mines. 3,681,246, 8-1-72, Cl. 252-88.000.
Wittenberger, Wallace Wayne, to Computer Management Consultants, Inc. Data collecting and transmitting system and apparatus. 3,651,267, 3-21-72, Cl. 179-2.
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Wittler, Bernard H., to Singer Company, The. Adjustable stroke mechanism for tufting machines. 3,665,873, 5-30-72, Cl. 112-79.00a.
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Witz, Samuel; Carleton, Lee T.; Anderson, Howard H.; Moyer, Rudolph H.; and Neufeld, Harold A., said Witz, Anderson and assor. to Aerojet-General Corporation and said Neufeld assor. to United States of America, Army. Automatic biological agent detector. 3,90,837, 9-12-72, Cl. 23-254.00r.
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Witzel, Bruce E., to Merck & Co., Inc. Novel pyridones in compositions and methods for treating inflammation, pain and fever. 3,644,626, 2-22-72, Cl. 424-263.

Witzel, Bruce E.; Shen, Tsung-Ying; Graham, Particia M.; Clark, Robert L.; and Pessolano, Arsenio A., to Merck & Co., Inc. Certain 3-amino-2(1H)-pyridones. 3,654,291, 4-4-72, Cl. 260-296.

Witzel, Bruce E., to Merck & Co., Inc. Antiinflammatory agents. 3,655,897, 4-11-72, Cl. 424-203.

Witzel, Frank, to Beech-Nut Inc. Carbonated candy. 3,677,770, 7-18-72, Cl. 99-134.00r.

Witzell, Warren E., to Woods Hole Oceanographic Institution. Continuous magnetic line hydrophone. 3,659,257, 4-25-72, Cl. 340-8.000.

Witzenburg, Martion J., to Caterpillar Tractor Company. Water pump seal. 3,669,458, 6-13-72, Cl. 277-38.000.

Witzig, Werner, to Sonoco Products Company. Convolute tube and method for making same. 3,704,730, 12-5-72, Cl. 138-144.000.

Witzke, Anneliese. Device for the tensioning and drying of garments. 3,645,425, 2-29-72, Cl. 223-69.

Witzke, Frederick W., to Bendix Corporation, The. Sling roundness gage. 3,648,377, 3-14-72, Cl. 33-174.

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Wixson, James D. Distillation method having counterflow heat exchange with condensate. 3,637,465, 1-25-72, Cl. 203-11.

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Wize, Gary A., to General Motors Corporation. Multi-position vehicle seat. 3,695,688, 10-3-72, Cl. 297-92.000.

Wize, Gary A., to General Motors Corporation. Vehicle passive occupant restraining belt arrangement. 3,700,258, 10-24-72, Cl. 280-150.0sb.

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Woda, Karl, to Elin-Union Aktiengesellschaft fur Elektrische Industrie. Brush-holder for electric motors and generators. 3,634,710, 1-11-72, Cl. 310-239.

Woehler, Harold L., to Fedders Corporation. Gentle wash mechanism for a dishwasher. 3,702,680, 11-14-72, Cl. 239-256.000.

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Woerner, Rudolph C.; and Funkhouser, Terry D., to Petro-Tex Chemical Corporation. Fouling reduction in oxidative dehydrogenation process. 3,662,017, 5-9-72, Cl. 260-681.5.

Woerner, Rudolph C., to Petro-Tex Chemical Corporation. Reducing fouling in oxidative dehydrogenation process. 3,683,042, 8-8-72, Cl. 260-680.00e.

Woerrlein, Hermann H., to United States of America, Navy. Randomly phase coded antenna technique for search radar. 3,680,100, 7-25-72, Cl. 343-11.00r.

Woessner, Richard; and Benda, Alexander Z., to Wood Industries, Inc., mesne. Plate cylinder with interchangeable plate clamping device. 3,646,886, 3-7-72, Cl. 101-378.

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Wogerbauer, Alfred, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Sheet pile section. 3,703,085, 11-21-72, Cl. 61-60.000.

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Wohl, Charles J.; Schere, Jonathan L.; and Costello, Thomas V., to Edco Corporation. Switching apparatus for a phased transducer array. 3,676,839, 7-11-72, Cl. 340-6.00r.

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Wohn-Machowski, Mary. Occupant safety retaining device for vehicles. 3,663,037, 5-16-72, Cl. 280-150.
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Wood, John R., to Fairchild Camera and Instrument Corporation. Assembly method for attaching semiconductor devices. 3,680,198, 8-1-72, Cl. 29-498.000.

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Wood, Prentice J., to Mead Corporation, The. Carrier for flanged article. 3,640,563, 2-8-72, Cl. 294-87.2.

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Worline, Paul W. Film shrinking tunnel utilizing hot air and water as heat transfer medium. 3,678,244, 7-18-72, Cl. 219-388.000.
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Wright, Edward L.; and Meseck, Eugene T., to Customline Control Products, Inc. Leak detection system. 3,667,285, 6-6-72, Cl. 73-40.500.
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Wright, Jack D.; and Howald, Werner E., to General Electric Company. Adjustable blade turbine. 3,632,224, 1-4-72, Cl. 415-149.
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Wright, Jerauld George, to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence. Horizontal situation indicator. 3,644,928, 2-22-72, Cl. 343-106.
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Wright, Kenneth N.; and Shanklin, Samuel H., to Staley, A. E., Manufacturing Company. Stable dietary supplement for new born pigs. 3,655,882, 4-11-72, Cl. 424-147.
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Wright, Larry R., to Motorola, Inc. Noise blanker circuit including rate bias and rate shutoff circuitry and audio blanking. 3,699,457, 10-17-72, Cl. 325-479.000.
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Yamamura, Katsumi; Miyasaka, Tsugumitsu; Hayashi, Shinichi; Yamamoto, Masao; and Matsubara, Yukio. Palladium-nickel alloy plating bath. 3,677,909, 7-18-72, Cl. 204-43.000.

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Yamamura, Yuichi; Kokubu, Tatsuo; Shigezane, Keisuke; and Mizoguchi, Tomishige. L-leucyl-L-leucyl-L-valyl-L-tyrosinol. 3,700,651, 10-24-72, Cl. 260-112.500.

Yamamuro, Hiroshi, to Tokyo Shibaura Co., Ltd. Apparatus for measuring the dimensions of objects. 3,653,770, 4-4-72, Cl. 356-160.

Yamamuro, Hiroshi; Kawase, Akira; and Sakai, Akio, to Tokyo Shibaura Electric Co., Ltd. Apparatus for measuring the dimensions of objects which includes a carrier which travels across the objects to be measured. 3,663,108, 5-16-72, Cl. 356-160.

Yamana, Masaki, to Fuji Denki Seizo Kabushiki Kaisha. Polyphase transformer device whose taps are changeable when loaded. 3,652,925, 3-28-72, Cl. 323-43.5.

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Yamanaka, Sadajiro, to Yugen Kaisha Yamanaka Seisakusho. Automatic grinding apparatus for magnetic heads. 3,702,518, 11-14-72, Cl. 51-165.800.

Yamanaka, Takanobu, to Nippon Pneumatic Manufacturing Company Limited. Impact air driven tool. 3,661,216, 5-9-72, Cl. 173-17.

Yamanaka, Takashi; Miyauchi, Rinichi; Fujita, Hisaya; and Kaieda, Nobuo, to Yokogawa Electric Works, Ltd. Automatic balancing measuring meter. 3,704,415, 11-28-72, Cl. 324-99.00r.

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Yamane, Kazuo; and Maruyama, Hiromi, to Takeda Riken Industry Company Limited. Word generating apparatus. 3,654,559, 4-4-72, Cl. 328-61.

Yamane, Mikiya; Saito, Akira; Matsumoto, Katsuyoshi; Kawasumi, Kenichi; Murayama, Kazuo; and Sugiyama, Hiroshi, to Hitachi, Ltd. High-pressure metal vapor discharge lamp. 3,642,340, 2-15-72, Cl. 316-20.

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Yamanoi, Yorio, to Minolta Camera Kabushiki Kaisha. Developing device for electrostatic duplicators. 3,672,329, 6-27-72, Cl. 118-637.000.

Yamanoi, Yorio, to Minolta Camera Kabushiki Kaisha. Exposure window of an electrostatic copying machine. 3,689,142, 9-5-72, Cl. 355-3.000.

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Yamanouchi, Akira; Takenaka, Seisuke; and Mitori, Yukio, to Matsushita Denko Kabushiki Kaisha. Method of making an enameled decorative board. 3,697,350, 10-10-72, Cl. 156-245.000.

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Yamashita, Chikao, to Brother Kogyo Kabushiki Kaisha. Sewing machine convertible lock stitch to chain stitch. 3,675,603, 7-11-72, Cl. 112-168.000.

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Yamashita, Sadahiko, to Matsushita Electric Industrial Company, Limited. Electro-optical network for selectively producing a single pulse or pulse train in response thereto of a single trigger pulse. 3,643,099, 2-15-72, Cl. 250-206.

Yamashita, Sadahiko, to Matsushita Electric Industrial Co., Ltd. Electro-optical converter using a pulse generating diode to generate signal having pulse repetition frequency according to light signal. 3,678,280, 7-18-72, Cl. 250-213.000.

Yamashita, Sadahiko, to Matsushita Electric Industrial Co., Ltd. Memory device utilizing pulse generating diode. 3,680,059, 7-25-72, Cl. 340-173.0nr.

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Yamashita, Toshio; Ohtani, Tadao; Yoshida, Manabu; Kitamura, Saburo; and Murakami, Hideaki, to Matsushita Electric Industrial Co., Ltd. Sintered semiconductor film and method of manufacturing same. 3,636,492, 1-18-72, Cl. 338-15.

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Yasuda, Tetutaro; and Nakanishi, Tsuneo, to Hitachi, Ltd. Shearing machine of the interchangeable knife holder type. 3,638,523, 2-1-72, Cl. 83-700.

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Yasuda, Toshitaka; Katayama, Shiro; and Suzuki, Yutaka, 3/4 to Tatsuta Electric Wire & Cable Co., Ltd. and 1/4 to Tomoegawa Paper Manufacturing Co., Ltd. Insulating paper of good thermal conductivity. 3,650,954, 3-21-72, Cl. 252-63.2.

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Yasui, Seimei; Hirooka, Masaaki; and Oshima, Teruo, to Sumitomo Chemical Company, Ltd. Sulfur-curable olefinic copolymers and method for producing the same. 3,678,018, 7-18-72, Cl. 260-80.780.

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Yates, Lester R.; Dorsey, Charles M., Jr.; Howell, John B.; Conklin, Winfred S.; Sawicki, Joseph J.; Shepherd, Reeves T.; and Soares, Silvio, to Bendix Corporation, The. Wide band crystal controlled transceiver with remote digital tuning. 3,641,434, 2-8-72 Cl. 325-17.

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Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Soluble complex ion metal silicates. 3,637,775, 1-25-72, Cl. 260-429.9.

Yates, Paul C. Dense, submicron grain ain-sic bodies. 3,649,310, 3-14-72, Cl. 106-44.

Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Coupling agent copolymers of amine silicates and organofunctional silanes. 3,649,320, 3-14-72, Cl. 106-287.

Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Trivalent metal phosphate coated colloidal silica molding powders. 3,650,783, 3-21-72, Cl. 106-69.

Yates, Paul C., to Du Pont de Nemours, E. I., and Company. High surface are stabilized silica sols and process for preparing same. 3,655,578, 4-11-72, Cl. 252-313.

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Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Refractories bonded with aluminides, nickelides, or titanides. 3,676,161, 7-11-72, Cl. 106-55.000.

Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Method for making metal oxide sols in polar organic solvents. 3,676,362, 7-11-72, Cl. 252-309.000.

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Youmans, Arthur H., to Dresser Industries, Inc. Dual purpose radioactivity well logging detector system. 3,688,114, 8-29-72, Cl. 250-71.500.
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Youmans, Donald W., to FMC Corporation. Movable load support for self loading vehicle. 3,666,122, 5-30-72, Cl. 214-77.00r.
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Young, Buck R., to Hudson Pulp & Paper Corporation. Coating for multi-wall bags. 3,642,679, 2-15-72, Cl. 260-23.3.

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Young, Cecil G., to North American Rockwell Corporation. Petri dish with compartment for sterilized spreading element. 3,660,243, 5-2-72, Cl. 195-139.000.

Young, Charles G., to American Optical Corporation. Glass peripherally multi-arcuate disc laser. 3,702,976, 11-14-72, Cl. 331-94.500.

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Young, Charles Gilbert, to American Optical Corporation. Compensator for a radial refractive-index gradient in a disc laser. 3,675,152, 7-4-72, Cl. 331-94.500.

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Young, Chauncey; and Watson, William H., to Riegel Paper Corporation. Opening arrangement for drumhead cartons. 3,680,764, 8-1-72, Cl. 229-17.00r.

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Young, Chester C., to Hardcast, Inc. Methods of making sealing tapes. 3,679,456, 7-25-72, Cl. 117-63.000.

Young, Claude F.: *See*—
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Young, Clyde L., to Ranco Incorporated. Control apparatus for delaying restart of refrigerating apparatus. 3,631,685, 1-4-72, Cl. 62-158.

Young, David E., to Schlumberger Technology Corporation. Well packer. 3,631,926, 1-4-72, Cl. 166-134.

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Young, David P., to Technicraft International, Inc. Method for recharging an ion exchange resin. 3,658,698, 4-25-72, Cl. 210-32.

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Young, David W.; and Dieter, Jerry A., to Atlantic Richfield Company. Method of desuckering tobacco plants. 3,697,250, 10-10-72, Cl. 71-78.000.

Young, Dean Arthur, to Union Oil Company of California. Ammoniated zeolite catalysts. 3,644,200, 2-22-72, Cl. 208-120.

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Young, Dean Arthur. Treatment of aluminosilicate. 3,691,099, 9-12-72, Cl. 252-450.000.

Young, Dean Arthur, to Union Oil Company of California. Catalytic hydrocracking. 3,706,694, 12-19-72, Cl. 252-455.00z.

Young, Don L., Jr., to Controlex Corporation. Flexible remote control with spaced ball bearings. 3,667,313, 6-6-72, Cl. 74-501.00p.

Young, Donald Allan, to Lucas, Joseph, (Industries) Limited. Pins for electrical connectors. 3,678,448, 7-18-72, Cl. 339-217.00s.

Young, Donald C.; and Harbolt, Bruce A., to Union Oil Company of California. Porous particulate sulfur and means and method for its preparation. 3,637,351, 1-25-72, Cl. 23-224.

Young, Donald C., to Union Oil Company of California. Iron complexes containing aguo, sulfate and hydroxyl ligands. 3,679,377, 7-25-72, Cl. 23-315.000.

Young, Donald C., to Union Oil Company of California. Suspension fertilizers. 3,679,390, 7-25-72, Cl. 71-29.000.

Young, Donald C., to Union Oil Company of California. Solutions of ammonium nitrate sulfate and chloride containing a thiosulfate as defollants and desiccants. 3,689,246, 9-5-72, Cl. 71-69.000.

Young, Donald C., to Union Oil Company of California. Pesticide compositions containing dicarbadodecahydroundecaborates. 3,702,241, 11-7-72, Cl. 71-79.

Young, Donald G., to Dow Corning Corporation. Primer composition for adhering silicone elastomer to substrates. 3,671,483, 6-20-72, Cl. 260-32.8sb.

Young, Donald G., to Dow Corning Corporation. Primer for adhesion of silicone rubber to metal. 3,677,998, 7-18-72, Cl. 260-33.6sb.

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Young, Dorse James, to Harris-Intertype Corporation. Positioning means for material cutter. 3,661,277, 5-9-72, Cl. 214-1.6.

Young, Dorse James, to Harris-Intertype Corporation. Material cutter control apparatus. 3,662,636, 5-16-72, Cl. 83-71.

Young, Douglas L., to Canadian Ingersoll-Rand Company, Limited. Blotted pulp screen. 3,631,981, 1-4-72, Cl. 209-399.

Young, Edward G., to C.T. & R.E., Inc. Methods and means for treating surfaces. 3,655,444, 4-11-72, Cl. 134-6.

Young, Edward G., to Beatrice Foods Co. Pressure plate for cleaning carpeting with surface working pad. 3,698,032, 10-17-72, Cl. 15-230.000.

Young, Edward G.; and Heggem, Howard W., to Beatrice Foods Co. Multiple layer surface working pads. 3,703,739, 11-28-72, Cl. 15-230.170.

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Young, Einar T., to Sun Oil Company of Pennsylvania. Price increment unit for liquid dispensing apparatus. 3,637,055, 1-25-72, Cl. 192-4.

Young, Einar T., to Sun Oil Company. Flexible pricing arrangement for liquid dispensing apparatus. 3,680,408, 8-1-72, Cl. 74-681.000.

Young, Einar T., to Sun Oil Company. Motor fuel dispensing apparatus. 3,705,596, 12-12-72, Cl. 137-100.000.

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Young, Frank L. Light weight expansible mailing envelope. 3,648,923, 3-14-72, Cl. 229-75.
Young, Fred M., to Young Radiator Company. Plastic bonding of heat-exchanger core-units to header-plates. 3,633,660, 1-11-72, Cl. 165-69.
Young, Fred M.; Astrup, William V.; and Jones, Ronald E., to Young Radiator Company. Apparatus for forming sheet-metal fin-strips for heat-exchangers. 3,650,233, 3-21-72, Cl. 113-1.
Young, Gary Clifford; and Kleinpeter, Joseph A., to Continental Oil Company. Adsorption process for recovering easy-to-regenerate condensible components from a multicomponent gas stream. 3,696,587, 10-10-72, Cl. 55-62.000.
Young, Geoffrey Tyndale, to National Research Development Corporation. Process for the synthesis of peptides using 4-pyridylmethyl and related groups for the protection of C-terminal carboxyl groups. 3,655,636, 4-11-72, Cl. 260-112.5.
Young, George, to Needle Industries Limited. Felting needle mounting means. 3,654,678, 4-11-72, Cl. 28-4.
Young, George Ralph, Jr., to American Chemical & Refining Company Incorporated. Adjustable frame for thin sheet electrodes. 3,677,929, 7-18-72, Cl. 204-286.000.
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Young, Herbert, to Kidde, Walter, & Company, Inc. Storage system. 3,677,202, 7-18-72, Cl. 108-109.000.
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Young, Howard S.; Anderson, George C.; and McDaniel, Edgar L., to Eastman Kodak Company. Process for preparing acrylic acid. 3,668,245, 6-6-72, Cl. 260-533.00n.
Young, Ira Bruce, Jr. Wire correspondence tray. 3,704,791, 12-5-72, Cl. 211-126.000.
Young, James, to Ren Plastics, Inc. Carvable epoxy resin compositions. 3,652,486, 3-28-72, Cl. 260-32.6.
Young, James C., to Iowa State University Research Foundation, Inc. System for measuring BOD by electrolysis. 3,668,102, 6-6-72, Cl. 204-195.00b.
Young, James E., to Xerox Corporation. Color printing system. 3,642,377, 2-15-72, Cl. 355-88.
Young, James L.: *See—*
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Young, James L., to Tubular Products, Inc. Safety device for backstop assembly. 3,704,017, 11-28-72, Cl. 273-1.50r.
Young, James M. Method of making multiple tendon, prestressed segmented concrete beam. 3,639,973, 2-8-72, Cl. 29-452.
Young, James Roger, to General Electric Company. Hydrocarbon responsive getter ion pump. 3,672,789, 6-27-72, Cl. 417-51.000.
Young, James W.; Cason, George A.; and Kunkel, Ernest O., to Dresser Industries, Inc. Earth boring machine. 3,659,661, 5-2-72, Cl. 175-85.
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Young, Jerry W., to Phillips Petroleum Company. Apparatus for sealing paperboard containers. 3,664,901, 5-23-72, Cl. 156-443.
Young, John, III, to Murdock Machine & Eng. Co. Stress-corrosion tester. 3,685,969, 8-22-72, Cl. 23-253.00c.
Young, John Ralph: *See—*
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Young, John S., to Victaulic Company of America. Joints between pipes of different diameters and couplings and gaskets for the same. 3,680,894, 8-1-72, Cl. 285-112.
Young, John T.; Michels, Charles E.; Zimmerman, Thomas C.; and Hagemann, Gilbert M., to Wrapping Machinery Company, Inc. Reversible manual and automatic labeling machine with weigher. 3,693,737, 9-26-72, Cl. 177-52.000.
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Young, Laurence R.; and Newman, Joel S. Method for monitoring movement of a subject eye. 3,689,135, 9-5-72, Cl. 351-39.000.
Young, Maurice A., to Dunlop Holdings Limited. Method of forming reinforcing yarns or cords. 3,648,452, 3-14-72, Cl. 57-164.
Young, Maurice A., to Dunlop Holdings Limited. Pneumatic tires. 3,669,173, 6-13-72, Cl. 152-361.000.
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Young, Michael Arthur Bennett: *See—*
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Young, Noble E. Process and apparatus for treating oil emulsions. 3,637,522, 1-25-72, Cl. 252-328.
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Young, Raymond H., Jr.; Markhart, Albert H.; and Martins, Joseph G., to Monsanto Company. Substrates protected with prepared polymeric ultraviolet light stabilizers from phenol-formaldehyde condensates. 3,650,799, 3-21-72, Cl. 117-33.3.
Young, Raymond H., Jr., to Monsanto Company. Substrates coated with a poly(vinyl-halobenzal) based composition. 3,685,990, 8-22-72, Cl. 96-1.800.
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Young, Richard K., to Phillips Petroleum Company. Heating parison preforms in liquid fluorinated organic compound. 3,655,480, 4-11-72, Cl. 156-256.
Young, Richard K.; and Dockery, Calvin D., to Phillips Petroleum Company. Surface treatment of interior of parison preform. 3,655,848, 4-11-72, Cl. 264-98.
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Young, Richard W.; and Malin, Murray E., to Polaroid Corporation. Photographic film exposure and viewing systems using coded film cassette. 3,672,752, 6-27-72, Cl. 352-72.000.
Young, Robert L.; Wood, Russell E.; Farney, Samuel D.; and Hogan, Arnold U., to Carrier Corporation. Frame for rooftop air conditioner. 3,702,211, 11-7-72, Cl. 312-257.000.
Young, Robert Leonard: *See—*
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Young, Robert R., to Kaiser Industries Corporation. Containerized cargo storage and handling system. 3,631,993, 1-4-72, Cl. 214-16.4.
Young, Robert R.; and English, William A., to Westinghouse Electric Corporation. Combined flexible and magnetic drive coupling. 3,643,120, 2-15-72, Cl. 310-96.
Young, Robert R., to Kaiser Industries Corporation. Method of handling and storing containers at a shipping terminal. 3,669,288, 6-13-72, Cl. 214-152.000.
Young, Robert R.; and English, William A., to Westinghouse Electric Corporation. Compressor combined flexible and magnetic drive coupling. 3,680,984, 8-1-72, Cl. 417-420.000.
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Young, Stephen A. Connection for spout adjustment. 3,640,305, 2-8-72, Cl. 137-360.
Young, Vernon V., to Commercial Solvents Corporation. Separation of mixed diastereoisomers of zearalanol. 3,687,982, 8-29-72, Cl. 260-343.20f.
Young, Virgil F.; and Pebenito, Amabel A. Magnetic card reader-recorder. 3,646,323, 2-29-72, Cl. 235-61.11.
Young, Walter A. Seed planter-failure detector. 3,704,459, 11-28-72, Cl. 340-271.000.
Young, Warren L.: *See*—
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Cornay, Clement J.; Guy, Allen R.; and Young, Warren L., 3,652,728.
Young, Warren L.; Kennedy, James S.; Carnahan, Norman F.; and Blanchard, Robert R., to Dow Chemical Company, The. Post-chlorination of vinyl chloride resins in aqueous suspension. 3,632,848, 1-4-72, Cl. 260-92.8.
Young, Wiels D. Flute. 3,685,388, 8-22-72, Cl. 84-384.000.
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Young, William E.; and Jezuit, Arthur D., to Grace, W. R., & Co. Packaging machine and method of forming packages. 3,706,174, 12-19-72, Cl. 53-112.00r.
Young, William E. L. Sporting apparatus. 3,663,031, 5-16-72, Cl. 280-11.24.
Young, William G.; and Horning, Frederick G., to Salem Tool Company, The. Drive for plural auger mining machine. 3,663,062, 5-16-72, Cl. 299-57.
Young, William G., to Salem Tool Company, The. Locking device for auger latches. 3,685,865, 8-22-72, Cl. 287-119.000.
Young, William O., Jr.; and Quattlebaum, Walter J., to Deering Milliken Research Corporation. Pull tab machine. 3,675,836, 7-11-72, Cl. 226-113.000.
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Young, William O., Jr., to Deering Milliken Research Corporation. Pull tab paper. 3,702,654, 11-14-72, Cl. 206-59.00f.
Young, William O., Jr.; and Quattlebaum, Walter J., to Deering Milliken Research Corporation. Pull tab device. 3,707,420, 12-26-72, Cl. 156-314.000.
Young, William P.; and Halgren, John A., to International Harvester Company. Carburizing steels containing chromium. 3,669,652, 6-13-72, Cl. 75-126.00c.
Youngblood, Donald A., to Optisonics Corporation. Film advance mechanisms for combinations visual and sound apparatus. 3,662,936, 5-16-72, Cl. 226-51.
Youngblood, Donald A. Combination cartridge containing removable tape magazine and removable filmstrip holder. 3,669,531, 6-13-72, Cl. 352-31.000.
Youngblood, Donald A. Collapsible screen assembly combination visual and sound apparatus. 3,695,746, 10-3-72, Cl. 350-124.000.
Youngblood, Douglas J.: *See*—
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Youngbluth, Otto, Jr., to United States of America, National Aeronautics and Space Administration. Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT. 3,649,907, 3-14-72, Cl. 324-20.
Youngdale, Gilbert A., to Upjohn Company, The. Rodent sterilant process and bait. 3,659,021, 4-25-72, Cl. 424-342.
Youngdale, Gilbert A.; and Ericsson, Ronald J., to Upjohn Company, The. Methods of preventing impregnation. 3,659,022, 4-25-72, Cl. 420-303.
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Youngquist, Mary J., to Eastman Kodak Company. Photographic product, composition and process comprising an anhydro dihydro amino reductone developing agent. 3,664,835, 5-23-72, Cl. 96-3.
Youngquist, Mary J., to Eastman Kodak Company. Photographic product, composition and process. 3,666,457, 5-30-72, Cl. 96-29.00r.
Youngquist, Mary J., to Eastman Kodak Company. Photosensitive and thermosensitive elements, compositions and processes. 3,679,426, 7-25-72, Cl. 96-114.100.
Youngquist, Mary J., to Eastman Kodak Company. Use of development inhibitor releasing compounds in photohermographic elements. 3,700,457, 10-24-72, Cl. 96-114.100.
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Youtsey, Karl J.; Holt, William C., Jr.; Carnahan, Robert D.; and Spielberg, David H., to Universal Oil Products Company. Pyropolymeric semiconducting organic-refractory oxide material. 3,651,386, 3-21-72, Cl. 317-237.
Youtz, Donald E.; and Eigenbrode, Edwin M., to Teledyne, Inc. Die head. 3,681,802, 8-8-72, Cl. 10-96.000.
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Yovanovicb, Joseph T., 1/2 to Berger, Milton. Cloth-board reel. 3,682,816, 8-8-72, Cl. 206-50.000.
Yoviene, Salvatore J. Vehicle bumper. 3,706,468, 12-19-72, Cl. 293-88.000.
Yowell, Gordon H., to Sperry Rand Corporation. Power transmission. 3,644,067, 2-22-72, Cl. 417-370.
Yowell, Gordon H., to Sperry Rand Corporation. Power transmission. 3,672,793, 6-27-72, Cl. 417-368.000.
Yozo, Iida, to Nippon Kogaku K.K. Film rewind device for compact cinecameras. 3,689,137, 9-5-72, Cl. 352-91.000.
Yperman, Jean Michel Baudry Ghislain; and Belhomme, Charles, to U.S. Philips Corporation. Electric ceramic resistors having positive temperature coefficients and method of manufacturing same. 3,674,713, 7-4-72, Cl. 252-520.000.

Yrjala, Ilmo. Measuring and regulation method, for water soluble, oxidizing or reducing compound particularly in pulp bleaching. 3,692,624, 919-72, Cl. 162-49.000.
Ysbrand, Floyd R.; and Pembroke, Richard W., to Telex/Computer Products, Inc. Bi-directional drive mechanism with high speed reverse. 3,684,147, 8-15-72, Cl. 226-178.000.
Yssel, Gideon Petrus Schoeman. Pivoting devices allowing continuous automatic head lamp adjusting. 3,646,339, 2-29-72, Cl. 240-7.1.
Yssel, Gideon Petrus Schoeman. Mechanical headlamp adjusting means. 3,697,741, 10-10-72, Cl. 240-7.100.
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Yu, Albert Y. C.; Gopen, Howard J.; and Waits, Robert K., to Fairchild Camera and Instrument Corporation. Method of forming contacts to epitaxial G_3A_5 and the resulting structure. 3,702,290, 11-7-72, Cl. 204-192.000.
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Yu, Arthur J.; and Kraft, Paul, to Stauffer Chemical Company. Polyvinyl chloride-polymethacrylonitrile interpolymer processing aid for polyvinyl chloride. 3,686,363, 8-22-72, Cl. 260-876.00r.
Yu, Frank K., to Honeywell Inc. Self-check number generation. 3,686,629, 8-22-72, Cl. 340-146.1aj.
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Yudelson, Joseph S.; and Dernbach, Barbara F., to Eastman Kodak Company. Photographic reproduction using novel physical developers. 3,650,748, 3-21-72, Cl. 96-48.
Yueh, Mao Hsun, to General Mills, Inc. Reduction and modification of the unpleasant aftertaste of saccharin. 3,647,482, 3-7-72, Cl. 99-141.
Yueh, Mao Hsun; and Schilling, Eugene D., to General Mills, Inc. Calcium carboxyalkyl ethers of galactomannan gums. 3,679,658, 7-25-72, Cl. 260-209.00r.
Yueh, Mao Hsun, to General Mills, Inc. Waste treatment with nucleoprotein flocculating agent. 3,681,283, 8-1-72, Cl. 210-47.000.
Yueh, Mao Hsun, to General Mills, Inc. Toilet bar. 3,689,419, 9-5-72, Cl. 252-90.000.
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Yukami, Noboru; Otani, Hiroshi; and Kurokawa, Hideo, to Matsushita Electric Industrial Co., Ltd. Stress sensitive semiconductor element having an N^+PP^+ or P^+NN^+ junction. 3,665,264, 5-23-72, Cl. 317-235.
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Zachariou, Basil. Shelving assemblies. 3,631,821, 1-4-72, Cl. 108-152.
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Zahradnik, George J., to Elco Corporation, mesne. Film cartridge for endless film. 3,697,009, 10-10-72, Cl. 242-55.190.
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Zelnick, Seymour; and Wildmoser, Martin Michael, to Weldotron Corporation. Wrapped pallet load. 3,667,598, 6-6-72, Cl. 206-65.00s.
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Zenker, Karol R., to Factory Mutual Research Corporation. Discharge head utilizing a pressure-responsive detent mechanism. 3,705,691, 12-12-72, Cl. 239-452.000.

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Zenkner, Kurt. Oil or gas burner with a cross-current blower having return flow means. 3,667,893, 6-6-72, Cl. 431-79.

Zenkner, Kurt. Cross flow blower. 3,695,775, 10-3-72, Cl. 415-53.000.

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Zenner, Walter J.; and Kranz, Raymond E., to Extel Corporation. Carriage drive for high speed printer. 3,670,861, 6-20-72, Cl. 197-64.000.

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Zenz, Fred J., to Whirlpool Corporation. Electric heating unit for clothes dryers. 3,670,143, 6-13-72, Cl. 219-375.000.

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Zenza Bronica Kogyo Kabushiki Kaisha: *See—*
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Zeph, David L., to United States of America, Navy. 24-Hour digital clock. 3,699,763, 10-24-72, Cl. 58-23.00r.

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Zerby, John C., to Westinghouse Electric Corporation. Frequency compensated pulse time discriminator. 3,641,443, 2-8-72, Cl. 328-109.

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Zimmerman, Joseph, to Du Pont de Nemours, E. I., and Company. High strength crystalline oriented filaments. 3,655,630, 4-11-72, Cl. 260-78.
Zimmerman, Lawrence C., to Leopold, F. B., Company, Inc. Sewage comminutor installation. 3,638,869, 2-1-72, Cl. 241-46.
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Zimmerman, Robert C.; and Lindsay, James R., to SCM Corporation. Electrical switch having a flexible one-piece actuator. 3,663,781, 5-16-72, Cl. 200-172.00r.
Zimmerman, Robert L.; Schweitzer, Bernard P.; Garvin, Hugh L.; Pedinoff, Melvin E.; and Waldner, Michael, to Hughes Aircraft Company. Acoustic delay line memory system. 3,668,662, 6-6-72, Cl. 340-173.
Zimmerman, Robert L.; Dennis, Kent S.; and Moore, Eugene R., to Dow Chemical Company, The. Fabrication of shaped articles cross-linked by chemical addition reactions. 3,678,016, 7-18-72, Cl. 260-78.40d.
Zimmerman, Robert V. Granular solids indicator for vertical vessels. 3,685,356, 8-22-72, Cl. 73-290.000.
Zimmerman, Roger W. Flip over game. 3,680,867, 8-1-72, Cl. 273-138.00r.
Zimmerman, Stanley D.: *See—*
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Zimmermann, Ernest F., to Ampex Corporation. Method of and apparatus for slitting webs. 3,695,131, 10-3-72, Cl. 83-56.000.
Zimmermann, F., & Co., Firma: *See—*
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Zimmermann, Horst: *See—*
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Zimmermann, Joseph James, to GTE Automatic Electric Laboratories, Incorporated. Device for positioning a tape head to tracks of a multi-track recording tape. 3,645,538, 2-29-72, Cl. 274-4.
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Zimmermann, Kurt; and Gemander, Georg, to Bosch, Robert, G.m.b.H. Current generator and electronic ignition circuit. 3,678,913, 7-25-72, Cl. 123-149.00d.
Zimmermann, Lukas. Automatic turret lathes. 3,694,875, 10-3-72, Cl. 29-42.000.
Zimmermann, Markus, to Geigy Chemical Corporation. N-acetyly-N-(cyclopropyl-4-pyrimidinyl)- sulphanilamides as antibacterial agents. 3,683,082, 8-8-72, Cl. 424-229.000.
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Zimmermann, Rolf; Busch, Wolfram; and Schmitz, Josef, to Chemische Werke Albert. Heat-curable compositions comprising partially crystalline unsaturated polyester. 3,652,470, 3-28-72, Cl. 260-22.
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Zimmermann, Volker, to Brown, Boveri & Cie Aktiengesellschaft. Method and apparatus for multiplying analog electrical quantities. 3,674,994, 7-4-72, Cl. 235-150.520.
Zimmermann, Walter. Apparatus for handling and processing currents of gas-borne dry soft powders. 3,669,503, 6-13-72, Cl. 302-64.000.
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Zinn, Leon; and Bodin, Milton, to AFA Protective Systems, Inc., mesne. Signaling system utilizing frequency and frequency duration for signalling and control functions. 3,634,824, 1-11-72, Cl. 340-147.
Zinn, Leon; and Bocin, Milton, to AFA Protective Systems, Inc., mesne. Device for connecting a substitute current path in case of line break. 3,652,867, 3-28-72, Cl. 307-86.
Zinn, Mortimer H., to United States of America, Army. Signal and noise separation utilizing zero crossing electron tube and circuit. 3,678,321, 7-18-72, Cl. 313-78.000.
Zinnes, Harold; Shavel, John, Jr.; Lindo, Neil A.; and Di Pasquale, Gene, to Warner-Lambert Company. 4-Alkylidene and 4-arylidene-5,6,7,8-tetrahydro-1,3(2H,4H)-isoquinolinediones. 3,634,415, 1-11-72, Cl. 260-240.
Zinnes, Harold; Shavel, John, Jr.; and Lindo, Neil A., to Warner-Lambert Company. N,N-Disubstituted 2-alkyl-3-hydroxy-1 (2H)-isoquinolonecarbamates. 3,641,032, 2-8-72, Cl. 260-287.
Zinnes, Harold; Lindo, Neil A.; and Shavel, John, Jr., to Warner-Lambert Pharmaceutical Company. 4-Acyloxy-3-phenylcarbamyl-2H-1,2-benzothiazine 1,1-dioxides. 3,646,020, 2-29-72, Cl. 260-243.
Zinnes, Harold; Lindo, Neil A.; and Shavel, John, Jr., to Warner-Lambert Pharmaceutical Company. 4-Hydroxy-3-furylcarbamyl-2H-1,2-benzothiazine 1,1-dioxides and process thereof. 3,646,021, 2-29-72, Cl. 260-243.
Zinnes, Harold; and Shavel, John, Jr., to Warner-Lambert Pharmaceutical Company. 4-Substituted-2-alkyl-3-phenyl-2H-1,2-benzothiazine-1,1-dioxides and processes for their production. 3,692,780, 9-19-72, Cl. 260-243.00r.
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Zirngibl, Hans; Winter, Gerhard; and Mansmann, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of fibrous refractory oxides of polyvalent elements. 3,684,443, 8-15-72, Cl. 423-612.000.
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Zmuda, Daniel A., to Questor Corporation. Method and apparatus for bending tubing. 3,650,140, 3-21-72, Cl. 72-296.
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Zmyslowski, Wojciech; Decowska, Zofia; Gawronski, Ryszard; Borejko, Zdzislawa; Decowski, Marek; and Wirski, Janusz, to Polska Akademia Nauk. Method and apparatus of automatic estimation of nonregular curves, especially electromiographic curves and the digial system for realization of the method. 3,657,646, 4-18-72, Cl. 324-77.
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Zocholl, Stanley E., to I-T-E Imperial Corporation. Solid state overcurrent device with variable frequency reference. 3,656,026, 4-11-72, Cl. 317-36.
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Van der Veen, Romke. Re. 27,535.
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Nadrich, John, and J. A. Ericson. Closure for a bottom pour metallurgical ladle. Re. 27,419, 7–4–72, Cl. 222—548.
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Olivier, Kenneth L., to Union Oil Co. of California. Preparation of beta-acyloxy-carboxylic acids and alpha, beta-unsaturated carboxylic acids by oxidative carbonylation. Re. 27,360, 5–9–72, Cl. 260—497.
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Redo, Ronald W. Maze device. Re. 27,521, 10–31–72, Cl. 273—153.
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Van der Veen, Romke, to N.V. Ingenieursbureau voor Systemen en Octrooien Spanstaal. Method and device for determining the quantity of dredging spoil to be paid. Re. 27,535, 12–26–72, Cl. 73—61 R.
Van der Veen, Romke, and J. de Koning, to N.V. Ingenieursbureau voor Systemen en Octrooien Spanstaal. Method and suction dredging installation for conveying dredging spoil. Re. 27,536, 12–26–72, Cl. 73—61 R.
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Barkley, William. Submergible sea room. 224,001, 6–27–72, Cl. D13—1.
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Barrault, Jean-Louis, to Le Trappeur Sillans. Ski-shoe. 223,791, 6–13–72, Cl. D2—276.
Barrault, Jean-Louis, to Compagnie Industrielle des Telecommunication. Intercommunications set. 225,648, 12–26–72, Cl. D26—14.
Barrow, Harold A. Gun holster. 224,010, 6–27–72, Cl. D22—13.
Bart, Philip D. Drinking straw. 225,486, 12–12–72, Cl. D94—3.
Bartlett, Eric C., to Dunlop Holdings Ltd. Tire. 223,888, 6–13–72, Cl. D90—20.
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Basterra, Ignacio A. Fork or similar article of flatware. 224,344, 7–18–72, Cl. D54—12.
Batchelar, Raymond L., and C. W. Heinle, to American Can Co. Container end. 223,338, 4–11–72, Cl. D9—255.
Bates, Dana B., to Simpson Timber Co. Core for paper rolls. 223,894, 6–20–72, Cl. D8—220.
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Bauer, James J., to Clark Equipment Co. Self-propelled loader vehicle. 224,588, 8–8–72, Cl. D14—3.

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Baugh, Benjamin C., to The Coleman Co., Inc. Combined catalytic heater and protective cover therefor. 225,641, 12–26–72, Cl. D23—123.

Baugh, Benjamin C., and R. R. Deines, to Nationwide Trailer Rental System Inc. Asportable trailer. 224,398, 7–25–72, Cl. D14—3.

Baughan, Dorothy J., to Woodrow W. Baughan and Anthony V. Sorci. Trophy or similar article. 225,415, 12–12–72, Cl. D29—28.

Baughman, Karl T., to Sears Roebuck and Co. Binocular. 224,568, 8–1–72, Cl. D57—1.

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Beaver, Ted L., to Continental Can Co., Inc. Jug or similar article. 223,806, 6–13–72, Cl. D9—40.

Beaver, Ted L., to Continental Can Co., Inc. Jar or similar article. 223,808, 6–13–72, Cl. D9—44.

Beaver, Ted L., to Continental Can Co., Inc. Jug or similar article. 223,995, 6–27–72, Cl. D9—41.

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Becker, Kurt, to Hermann Heye. Bottle. 223,143, 3–21–72, Cl. D9—135.

Becker, Kurt, to Hermann Heye. Bottle. 225,210, 11–28–72, Cl. D9—99.

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Belz, August. Holder for paper rolls. 224,864, 10–3–72, Cl. D6—97.

Benes, Frank J., to Anchor Hocking Corp. Tumbler or similar article. 224,798, 9–19–72, Cl. D36—8.

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Bennett, Arthur R. Adjustable ramp. 224,912, 10–10–72, Cl. D41—1.

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Benshoof, Robert E., to CBF Systems, Inc. Mobile fire detection and suppression unit. 225,220, 11–28–72, Cl. D14—3.

Benty, John L., to Bristol-Myers Co. Heater housing for hair curlers. 223,421, 4–11–72, Cl. D86—10.

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Berlant, George, to New Hermes Engraving Corp. Alphabet for monograms or the like. 224,756, 9–12–72, Cl. D64—16.

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Berry, Morris J. Tote bag. 224,370, 7–18–72, Cl. D87—3.

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Bethune, Ade, to Terra-Sancta Creations, Inc. Pendant. 225,560, 12–19–72, Cl. 45—16.

Bettonica, Franco, to U.S. Philips Corp. Box for an electric shaver. 224,368, 7–18–72, Cl. D87—1.

Beyers, Marvin E., to Caterpillar Tractor Co. Tire design for loader tire. 223,015, 2–22–72, Cl. D90—20.

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Bixler, Loring C., A. M. Davis, W. S. McCormick, Jr., and E. R. Wiener, to International Business Machines Corp. Data printer keyboard console. 223,762, 6–6–72, Cl. D26—5.

Bixler, Loring C., A. M. Davis, D. F. Lahey, W. S. McCormick, Jr., and E. R. Wiener, to International Business Machines Corp. Printer. 224,605, 8–8–72, Cl. D64—1.

Bixler, Loring C., A. M. Davis, D. F. Lahey, W. S. McCormick, Jr., and E. R. Wiener, to International Business Machines Corp. Data processor. 224,682, 8–29–72, Cl. D26—5.

Bixler, Loring C., M. F. Davis, and F. J. Eisenman, Jr., to International Business Machines Corp. Data processing ensemble. 225,645, 12–26–72, Cl. D26—5.

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Blank, Elliott E., to Dow Chemical Co. Bottle or similar article. 223,702, 5–30–72, Cl. D9—66.

Blankenship, Arthur C., to Uniroyal, Inc. Pneumatic tire. 224,180, 7–4–72, Cl. D90—20.

Blease, Wilfred J., to Pioneer Plastics, Inc. Celery crisper or similar article. 223,384, 4–11–72, Cl. D44—1.

Bliss, Robert L., to University of Utah. Display stand. 224,485, 8–1–72, Cl. D6—85.

Bloch, Jack, to Foster Grant Co., Inc. Pair of spectacles. 223,511, 4–25–72, Cl. D57—1.

Bloch, Jack, to Foster Grant Co., Inc. Pair of spectacles. 224,160, 7–4–72, Cl. D57—1.

Bloch, Jack, to Foster Grant Co., Inc. Pair of spectacles. 224,347, 7–18–72, Cl. D57—1.

Bloch, Jack, to Foster Grant Co., Inc. Pair of spectacles. 224,348, 7–18–72, Cl. D57—1.

Bloch, Jack, to Foster Grand Co., Inc. Pair of spectacles. 224,349. 7–18–72, Cl. D57—1.

Bloch, Roy W., to Ekco Products, Inc. Food packaging tray. 223,144, 3–21–72, Cl. D9—185.

Bloch, Roy W., to Ekco Products, Inc. Packaging container for comestibles or the like. 223,145, 3–21–72, Cl. D9—189.

Bloch, Roy W., to Ekco Products, Inc. Food packaging tray. 224,288, 7–18–72, Cl. D9—185.

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Bodman, John M. O., to The Educational Supply Association Ltd. Toy balance. 225,346, 12–5–72, Cl. D34—15.

Boehm, Kurt B., to Textron Inc. Snowmobile hood. 223,820, 6–13–72, Cl. D14—24.

Boehm, Kurt B., to Textron Inc. Snowmobile hood. 223,821, 6–13–72, Cl. D14—24.

Bogan, David B., to David B. Bogan Corp. Gear housing. 225,684, 12–26–72, Cl. D55—1.

Bogan, David B., Corp.: *See*—
Bogan, David B. 225,684.

Boganowski, Theodore D. Ski scooter. 224,125, 7–4–72, Cl. D34—15.

Boger, Ernest F. Hammermill. 223,778, 6–6–72, Cl. D55—1.

Bogna, David L. Integral counter top and lavatory. 224,307, 7–18–72. Cl. D23—58.

Bohan, Richard. Combined soap tray and toy receptacle. 223,841, 6–13–72, Cl. D33—24.

Boldt, Melvin H., to Rowe International Inc. Phonograph. 225,085, 11–7–72, Cl. D56—4.

Boldt, Melvin H., to G. W. Murphy Industries, Inc. Edger-trimmer. 225,295, 12–5–72, Cl. D8—8.

Boldt, Melvin H., to G. W. Murphy Industries, Inc. Hedge trimmer. 225,296, 12–5–72. Cl. D8—8.

Boldt, Melvin H., to G. W. Murphy Industries, Inc. Orbital sander. 225,298, 12–5–72, Cl. D8—62.

Boldt, Melvin H., to G. W. Murphy Industries, Inc. Circular Saw. 225,299, 12–5–72, Cl. D8—66.

Boldt, Melvin H., to G. W. Murphy Industries, Inc. Hand drill. 225,300, 12–5–72, Cl. D8—68.

Boldt, Melvin H., and D. P. Chuboff, to Zenith Radio Corp. Dual speaker housing. 223,255, 4–4–72, Cl. D26—14.

Bolen, Hugh R., Jr., Magnetic Forming Corp. Boat hook. 224,757, 9–12–72, Cl. D71—1.

Bolen, Hugh R., Jr. Paddle. 224,983, 10–24–72, Cl. D71—1.

Bolen, Hugh R., Jr., to Magnetic Forming Corp. Gaff. 225,399, 12–12–72, Cl. D22—22.

Bombardier Ltd.: *See*—
Delisle, Pierre A., and La Pointe. 222,859.
Lapointe, Yves A. 222,995.
Lapointe, Yves A. 223,709.
Lapointe, Yves A., and Delisle. 223,414.
Lapointe, Yves A., and MacKeen. 224,907.
MacKeen, Anthony, and La Pointe. 222,858.
MacKeen, Anthony, and Lapointe. 223,604.
MacKeen, Anthony D. 224,005.
MacKeen, Anthony D. 224,908.
MacKeen, Anthony D., and Lapointe. 225,105.

Bonanno, Joseph L., to Rapid Tool and Mfg. Co., Inc. Electrical tester. 223,001, 2–22–72, Cl. D26—1.

Bongort, Edgar A.: *See*—
Hawkins, Harold V., Dick, and Bongort. 222,966.
Hawkins, Harold V., Dick, and Bongort. 222,967.
Hawkins, Harold V., Dick, and Bongort. 223,925.

Bonifield, Charles B.: *See*—
Gardner, Stewart E., Bibeau, and Bonifield. 225,159.

Bonner, Herbert C. Combined vehicle bumper and guard. 224,931, 10–17–72, Cl. D14—6.

Bonzer, Lawrence W., to Lear-Siegler, Inc. Plug-in food and beverage warmer for an automobile. 224,752, 9–12–72, Cl. D44—26.

Boone, James V. Blade for a dental instrument. 225,331, 12–5–72, Cl. D24—1.

Borden, Inc.: *See*—
Kusek, Edwin F. 223,804.
McIlvain, Howard H. 223,810.

Bordinat, Eugene, Jr., to Ford Motor Co. Dual purpose vehicle tire. 223,427, 4–11–72, Cl. D90—20.

Borg-Warner Corp.: *See*—
Edgar, Howard M., and Lewis. 222,997.
Leino, Kenneth W. 224,858.
Saternus, Joseph F. 223,970.

Bortzfield, Frank E. Nightstick. 223,663, 5–23–72, Cl. D22—99.

Borum, Otis C.: *See*—
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Bosley, Denis V.: *See*—
Lovejoy, Robert B., Ashby, Bosley, and Douglas. 224,253.

Bosley, Denis V., and L. R. Wood, to Mattel, Inc. Operable stand for a model airplane or the like. 224,659, 8–22–72, Cl. D34—15.

Bostic, Foy D.: *See*—
Reddin, Bob G., and Bostic. 225,632.

Boucher, Guy, to E.F.E (European Fund Establishment). Spanner. 222,872, 1–25–72, Cl. D8—22.

Boucher, Raymond, and C. Voytko, to Hedstrom Co. Velocipede frame. 224,374, 7–18–72, Cl. D90—8.

Boudouris, Angelo, and G. T. Gray, to Eprad Inc. Combined film housing and projector base. 225,375, 12–5–72, Cl. D61—1.

Boultbee, James A. Stroller. 224,220, 7–11–72, Cl. D14—14.

Bousquet, Charles E. Floor care coupler. 223,945, 6–20–72, Cl. D37—3.

Bovino, Joseph F. Panel member for storm and screen doors. 225,052, 11–7–72, Cl. D13—1.

Bovino, Joseph F. Panel member for storm and screen doors. 225,053, 11–7–72, Cl. D13—1.

Bowen, Thomas E., to Division of U.S. Industries, Inc., Southeastern Metals. Combined caster chair and tray for invalid. 223,823, 6–13–72, Cl. D15—1.

Bowers, Arthur C. Altar cross or the like. 225,537, 12–19–72, Cl. D29—23.

Box, Theodor. Carrying case for bottles or the like. 224,393, 7–25–72, Cl. D9—177.

Boyajian, Alfred Z. to The Stanley Works. Multipurpose pliers. 223,561, 5–9–72, Cl. D8—58.

Boyce, Elvin L., to Tape-Licator, Inc. Tape applicator. 225,577, 12–19–72, Cl. D74—1.

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Boyertown Burial Casket Co.: *See*—
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Boyle, George H. Combined ladder and platform for picking fruit. 223,348, 4–11–72, Cl. D6—99.

Brainerd, Andrew W., K. H., and S. W. Unitary shoe-polishing device. 223,423, 4–11–72. Cl. D86—11.

Brainerd, Andrew W., K. H., and S. W. Shoe cleaning-polishing device. 225.133, 11–14–72, Cl. D86—11.

Brainerd, Kent H.: *See*—
Brainerd, Andrew W., K. H., and S. W. 223,423.
Brainerd, Andrew W., K. H., and S. W. 225,133.

Brainerd, Stuart W.: *See*—
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Brainerd, Andrew W., K. H., and S. W. 225,133.

Brandenburger, Nelda H. Sculpture. 225,414, 12–12–72, Cl. D29—23.

Bransky, Jeffery D., to Arvin Industries, Inc. Illuminable make-up mirror. 223,885, 6–13–72, Cl. D86—10.

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Brashear, Robert C. Storm window frame. 223,487, 4–25–72, Cl. D13—91.

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Braun A.G.: *See*—
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Jaffe, Martin A., Northrup, and Braun. 223,692.

Brecher, Irving. Nursery gym. 223,035, 2–29–72, Cl. D34—15.

Breed, Charles P., E. L. Izzi, and D. E. Husby, to Westinghouse Electric Corp. Luminaire. 224,753, 9–12–72, Cl. D48—31.

Breeka, Paul E.: *See*—
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Bremshey, Manfred, to Telesco Brophy Ltd. Combined umbrella and sheath. 223,183, 3–21–72, Cl. D87—1.

Bremshey, Manfred, to Telesco Brophey Ltd. Combined umbrella and sheath. 223,525, 4–25–72, Cl. D87—1.

Brescia, Anthony J., to Rubbermaid Commercial Products Inc. Refuse container. 225,566, 12–19–72, Cl. D49—30.

Bressickello, Tony J. Refrigerated show case. 225,200, 11–28–225,202, 11–28–72, Cl. D8—8.

Bressickello, Tony J. Refrigerated show case. 225,220, 11–28–72, Cl. D6—172.

Brett, James E., to Purex Corporation, Ltd. Float for sanitizing agent dispenser. 224,311, 7–18–72, Cl. D23—150.

Brewer, William R., to Hamilton C. de Jong. 224,384, 7–25–72, Cl. D9—70.

Brewer, William R., to Hamilton C. de Jong, d.b.a. Safety Brothers. Support leg for elevated toilet seat. 225,226, 11–28–72, Cl. D23—71.

Brewster, Roger M. Coin sorter. 223,292, 4–4–72, Cl. D52—4.

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Bricker, Bonnie L.: *See*—
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Brick, Mark A.: *See*—
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Brickler, Paul. Bubble forming windmill toy. 223,114, 3–14–72, Cl. D34—15.

Bridgestone Tire Co. Ltd.: *See*—
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Broadley, Eric H., to Lola Cars Ltd. Model racing car. 225,352, 12–5–72, Cl. D34—15.

Broadley, Eric H., to Lola Cars Ltd. Model racing car. 225,353, 12–5–72, Cl. D34—15.

Brodsky, David L. and E. J., to Superior Plastic Products Co. Suction catheter. 223,247, 4–4–72, Cl. D16—1.

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Brooks, David N., and R. E. Edin, to Sylvania Electric Products Inc. Electrical heater. 225,056, 11–7–72, Cl. D23—77.

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Brooks, Philip L., R. S. Reynolds, K. A. Penwarden, and S. H. Gajwani, to GTE Sylvania Inc. Matrix switch panel. 225,594, 12–19–72, Cl. D96—12.

Brooks, Philip L., R. W. Davies, T. E. Lash, and S. P. Ordberg, to GTE Sylvania Inc. Digital communications terminal. 225,647, 12–26–72, Cl. D26—5.

Brooks, Riley H. Paper towel dispenser. 223,049, 3–7–72, Cl. D52—2.

Brooks, Riley H. Serving tray for automobile seats. 224,673, 8–22–72, Cl. D87—1.

Brooks, Robert, to The L. P. Henryson Co., Inc. Folded umbrella. 224,990, 10–24–72, Cl. D88—3.

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Brown, Hesper P. Mobile storage cabinet. 222,933, 2–8–72, Cl. D14—3.

Brown, Jack E. Covered pitcher. 225,557, 12–19–72, Cl. D44—21.

Brown, Jane L. Puzzle or similar article. 225,425, 12–12–72, Cl. D34—15.

Brown, Joseph D., to Poloron Products, Inc. Container for liquids. 225,511, 12–19–72, Cl. D9—175.

Brown, William L., to Littelfuse, Inc. Fuse panel. 224,113, 7–4–72, Cl. D26—13.

Browne, Warren G. Residential building. 225,315, 12–5–72, Cl. D13—1.

Broyhill, Roy F. Dump body for a small truck. 223,020, 2–29–72, Cl. D14—3.

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Bullock, Edward K., E. F. Burke, J. M. Conner, M. S. Dietz, J.B. Morse, and A. R. Tilley, to Polaroid Corp. Camera flash attachment or similar article. 223,730, 5–30–72. Cl. D61—1.

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Burke, Jacob B. Pointer for a game board or similar article. 225,246, 11–28–72, Cl. D34—5.

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Burris, Donald J., and J. L. Maulbetsch, to Outdoor Sports Industries, Inc. Riflescope. 225,569, 12–19–72, Cl. D57—1.
Burris, Donald J., and J. L. Maulbetsch, to Outdoor Sports Industries, Inc., mesne. Riflescope. 225,570, 12–19–72, Cl. D57—1.
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Carter, Ronald D., to The Stanley Works. Flower shear. 223,893, 6–20–72, Cl. D8—5.
Carter, Ronald D., to Stanley Works (Great Britain) Ltd. Combined try and miter square. 224,044, 6–27–72, Cl. D52—6.
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Cassia, Antonio M., to Steiner Co. Lausanne S.A. Towel cabinet. 225,175, 11–21–72, Cl. D52—2.
Catalano, Paul D., and G. C. Hoehne, to Retention Communications Systems, Inc. Rear projection viewer. 224,447, 7–25–72, Cl. D61—1.
Catalano, Paul D., and G. C. Hoehne, to Retention Communications Systems, Inc. Audio visual cartridge. 223,098, 3–7–72, Cl. D26—14.
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Catena Watch Co. S.A. : *See*—
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Chaisson, John W. : *See*—
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Chamlee, Cliff. Prefabricated molded building. 225,312, 12–5–72. Cl. D13—1.
Chan, Mingkong, to The Ashflash Corp. Electric lantern. 224,556, 8–1–72, Cl. D48—24.
Chandler, Jasper S., and S. P. Hines, to Eastman Kodak Co. Microfilm reader housing. 225,035, 10–31–72, Cl. D61—1.
Chandler, Maurice P., and W. L. Porter, to General Motors Corp. Vehicle wheel. 224,006, 6–27–72, Cl. D14—30.
Chang, Ching-Yu. Chair. 223,193, 3–28–72, Cl. D15—1.
Chapin, Roger F. Jr., to Westinghouse Electric Corp. Combined air conditioner front and side panels therefor. 222,834, 1–11–72, Cl. D23—141.
Chapman, Anthony C. B., to Lotus Components Ltd. Model racing car. 222,919, 2–1–72, Cl. D34—15.
Charlton, George G. Nut and bolt holder or similar article. 225,509, 12–19–72, Cl. D8—255.

Charity, Lawrence E., to Sewell & Charity Ltd. Chair with swingable seat. 224,856, 10–3–72, Cl. D6—49.
Chase, Ascher, to General Foam Plastics Corp. Swimming pool. 225,243, 11–28–72, Cl. D34—5.
Chasen, L. Richard, to Coats and Clark, Inc. Hanger for pictures, mirrors, plaques or the like. 225,613, 12–26–72, Cl. D8—257.
Chasen, L. Richard, to Coats and Clark, Inc. Hanger for pictures, mirrors, plaques or the like.. 225,614, 12–26–72, Cl. D8—257.
Cheladze, George A., to Carthage Cup Co. Cup. 223,703, 5–30–72, Cl. D9—220.
Cheladze, George A., to Carthage Cup Co. Cup. 223,704, 5–30–72, Cl. D9—220.
Chernack, Milton P., to Delcron Products, Inc. Smoking device filter cartridge. 223,879, 6–13–72, Cl. D85—6.
Chernack, Milton P., to Delcron Products, Inc. Cigarette holder. 224,760, 9–12–72, Cl. D85—8.
Chernow, Michael, and F. E. Yarkoni, to Monocraft, Inc. Display stand. 225,192, 11–28–72, Cl. D6—28.
Cheslock, Edward P. Clock. 223,271, 4–4–72, Cl. D42—7.
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Chestine, Shirley D. Combination baby bath and dressing stand. 223,760, 6–6–72, Cl. D23—52.
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Chicago Musical Instrument Co.: *See*—
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Chilton, Frederick R., E. Barczak, and S. Merendino, to Mattel, Inc. Keyboard for musical instrument or the like. 224,444, 7–25–72, Cl. D56—1.
Chodorow, Ingram S., to Technalytics Inc. Retention suture bridge. 224,458, 7–25–72, Cl. D83—12.
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Chow, Howard T., to Compact Investment and Leasing Co. Travel trailer. 224,589, 8–8–72, Cl. D14—3.
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Christen, Louis J., Jr., to J. C. Christen Mfg. Co. Bag. 223,222, 3–28–72, Cl. D87—3.
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Cicero, Edward L. Combined golf accessories and holder thereof. 224,328, 7–18–72, Cl. D34—5.
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Clark, Larry G. Toy jail playhouse. 224,252, 7–11–72, Cl. D34—15.
Clark, Malcolm B., assignor of a fractional part interest to Ronald A. Clark. Building block. 223,352, 4–11–72, Cl. D18—2.
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Clarke, Christopher H. Citrus fruit peeler. 224,372, 7–18–72, Cl. D89—1.
Clarkin, Edward J., to Nooter Corp. Cooling panel. 224,310, 7–18–72, Cl. D23—127.
Clarkson, Anthony T. Copy camera support stand. 223,862, 6–13–72, Cl. D61—1.
Cleeland, Raymond T., to American Home Products Corp. Spoon or similar article. 225,178, 11–21–72, Cl. D54—12.
Cleeland, Raymond T., to American Home Products Corp. Dinner plate or similar article. 225,434, 12–12–72, Cl. D44—15.
Clement, Carl J., to Pholophysics, Inc. Combined data terminal and hard copy printer. 224,112, 7–4–72, Cl. D26—5.
Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 223,318, 4–4–72, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 223,529, 4–25–72, Cl. D92—26.
Clementi, Leonard C., to Cannon Mills Co. Sheet or similar article of bed linen. 224,879, 10–3–72, Cl. D6—264.
Cleminshaw, Douglas R., and R. G. Wells, to R. E. Dietz Co. Vehicle auxiliary lamp. 224,143, 7–4–72, Cl. D48—32.
Cliburn, Joyce G. Phone decoration. 224,023, 6–27–72, Cl. D26—14.
Clifford, Arthur J. Tongue depressor. 224,173, 7–4–72, Cl. D83—12.
Clinton, Harry M., to Swimrite Mfg. Co., Inc. Combined swimming pool pump and strainer. 223,250, 4–4–72, Cl. D23—4.
Clinton, Harry M., to Swimrite, Inc. Swimming pool chlorinator. 224,401, 7–25–72, Cl. D23—3.
Clostermann, Friedrich, to Trilux-Lenze KG. Transparent covering panel for light fitting. 224,894, 10–3–72, Cl. D48—16.
Clostermann, Friedrich. Transparent covering panel for light fittings. 224,895, 10–3–72, Cl. D48—16.
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Cole, Eric L., to Wilkinson Sword Ltd. Sword blade. 222,935, 2–8–72, Cl. D22—1.
Cole, Eric L., to Wilkinson Sword Ltd. Sword blade. 222,936, 2–8–72, Cl. D22—1.
Cole, Eric L., to Wilkinson Sword Ltd. Sword blade. 222,937, 2–8–72, Cl. D22—1.
Cole, Eric L., to Wilkinson Sword Ltd. Sword blade. 222,938, 2–8–72, Cl. D22—1.
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Cook, William J., to General Electric Co. Dental irrigator. 222,862, 1–18–72, Cl. D24—1.
Cook, William J., to General Electric Co. Portable electric heater. 225,229, 11–28–72, Cl. D23—123.
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Crealock, William I. B. Sailboat. 223,518, 4–25–72, Cl. D71—1.
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Cyr, Steven J., and M. W. Whelan, to Standard Oil Co. (Indiana). Compartmented tray. 224,206, 7–11–72, Cl. D9—185.
Cyr, Steven J., M. W. Whelan, and J. A. Krause, to Standard Oil Co. Covered hot food tray. 225,512, 12–19–72, Cl. D9—185.
Cyr, Steven J., and M. W. Whelan, to Standard Oil Co. Combined multi-unit dish set and tray holder therefor. 225,555, 12–19–72, Cl. D44—10.
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Daher, Theodore G., to General Electric Co. Clock or similar article. 224,748, 9–12–72, Cl. D42—7.
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Dallaire, Dominique and R. M., to P. H. Plastics Inc. Extruded plastic sill track for a window unit. 225,319, 12–5–72. Cl. D13—6.
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Dauray, Charles H., and G. F. Bliss, to U.S. Ring Traveler Co. Ring traveler. 224,959, 10–24–72, Cl. D8—248.
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Eddy, Robert E. Surgical tray. 224,671, 8–22–72, Cl. D83—1.
Eden, James F. Bear figure device for holding toys, clothing or the like. 224,030, 6–27–72, Cl. D34—15.
Edgar, Howard M., and R. Lewis, to Borg-Warner Corp. Chair. 222–997, 2–22–72, Cl. D15—1.
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Edwards, Bryant. Packaging cup or the like. 223,898, 6–20–72, Cl. D9—216.
Edwards, Frank M., to McGaw Division of American Hospital Supply Corporation. Filtration unit for blood and other medical liquids. 224,408, 7–25–72, Cl. D16—2.
Edwards, Harry, to Weathershields Ltd. Sealing strip primarily for the sliding roof of a vehicle or similar article. 223,708, 5–30–72, Cl. D14—6.
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Evans, Wallace D., Jr., to Rolatape Corp. Distance measuring instrument. 224,046, 6–27–72, Cl. D52—6.
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Fellows, Allen M. Hose support. 224,865, 10–3–72, Cl. D6—112.
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Fites, Larry L., K. M. Mann, K. A. Utrecht, to The Upjohn Co. Cassette packaging holder. 225,049, 11–7–72, D9—187.
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Fitzgerald, Timothy P., W. O. Nix, and H. D. Sandeffer, to Image Systems, Inc. Film duplicator. 224,807, 9–19–72, Cl. D61—1.
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Flynn, Daniel M., S. J. Bandoski, Jr., and W. R. Clow, to Hampden Engineering Co. Fractional horsepower DC controller. 224,228, 7–11–72, Cl. D26—13.
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Francis, John P. Automobile rain visor for drive-in theatres. 225,003, 10–31–72, Cl. D14—6.
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Freegard, Ernest M., to Advance Transformer Co. Universal bracket for mounting mercury ballasts. 223,483, 4–25–72, Cl. D8—234.
Freeman, Dixon L. Cabinet shelf bracket. 225,508, 12–19–72, Cl. D8—225.
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Friedrich, Horst, to NSM-Apparatebau G.m.b.H., Kommanditgesellschaft. Jukebox or similar article. 225,686, 12–26–72, Cl. D56—4.
Fritz, Albert J., and A. J. Panzica, to Schwinn Bicycle Co. Bicycle seat. 223,980, 6–20–72, Cl. D90—16.
Fromm, Jacob F., to Springfield Electrical Specialties, Inc. Bracket for automotive condensers. 223,082, 3–7–72, Cl. D8—233.
Frost, Marie H., and R. B. Odell, to David C. Cook Publishing Co. Animal figure hand puppet. 224,325, 7–18–72, Cl. D34—2.
Fudge, William L., to Larsen's Mfg. Co. Fire extinguisher cabinet. 224,592, 8–8–72, Cl. D16—2.
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Fukuda, Masahiro, to Fuji Shashin Film Kabushiki Kaisha. Camera. 224,350, 7–18–72, Cl. D61—1.
Fukuda, Masahiro, to Fuji Shashin Film Kabushiki Kaisha. Motion picture camera. 224,448, 7–25–72, Cl. D61—1.
Fukuda, Masahiro, and S. Mizukawa, to Fuji Shashin Film Kabushiki Kaisha. Camera. 223,409, 4–11–72, Cl. D61—1.
Fukuoka, Tatsuo. Sandals for children. 224,763, 9–19–72, Cl. D2—283.

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Fusco, Frank C., to Louis Marx & Co., Inc. Toy farm house. 224,429, 7–25–72, Cl. D34—15.
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Gahm, Lois. Mirror. 224,899, 10–3–72, Cl. D86—10.
Gailstyn Co., The: *See*—
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Galang, Gerald J., D. E. Rienhardt, and G. G. Weaver, to American Data Systems, Inc. Hood for electrical connector. 224,740, 9–12–72, Cl. D26—1.
Galarneau, Jean-Paul. Hand supported rear view mirror. 224,576, 8–1–72, Cl. D86—10.
Gale, John A., J. V. Young, and W. K. Menke, to Learning Products, Inc. Juvenile play structure or similar article. 224,029, 6–27–72, Cl. D34—5.
Gallagher, Edward L., R. W. Limacher, and R. S. Inlow, to A-T-O Inc. Fire alarm. 225,379, 12–5–72, Cl. D72—1.
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Gammons, David L., and C. A. Peterson, to Westinghouse Electric Corp. Domestic refrigerator case. 225,377, 12–5–72, Cl. D67—3.
Gandini, Sergio. Floor lamp. 223,546, 5–2–72, Cl. D48—20.
Gardella, John M., A. Ciavattoni, and E. E. Hoyt, to Pennwalt Corp. Dental unit. 224,536, 8–1–72, Cl. D24—1.
Gardella, John M., A. Ciavattoni, and E. E. Hoyt, to Pennwalt Corp. Dental tray. 224,617, 8–15–72, Cl. D24—1.
Gardella, John M., A. Ciavattoni, and E. E. Hoyt, to Pennwalt Corp. Cabinet for a dental unit. 224,618, 8–15–72, Cl. D24—1.
Gardella, John M., A. Ciavattoni, and E. E. Hoyt, to Pennwalt Corp. Cabinet for a dental unit. 224,619, 8–15–72, Cl. D24—1.
Gardella, John M., A. Ciavattoni, and E. E. Hoyt, to Pennwalt Corp. Dental cup filler. 224,620, 8–15–72, Cl. D24—1.
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Gardner, Stewart E., R. J. Bibeau, and C. B. Bonifield, to Gardner, Inc. Trailer. 225,159, 11–21–72, Cl. D14—3.
Garfinkle, Marvin E., R. E. Schmeck, and E. W. Tangard, to Pitney-Bowes, Inc. Postal scale. 223,009, 2–22–72, Cl. D52—10.
Garnett, Bobby J., to Hanson-Hawk, Inc., a division of Orion Industries, Switch. 224,540, 8–1–72, Cl. D26—13.
Garrett, Arthur R. Articulated tandem wheeled vehicle. 225,348, 12–5–72, Cl. D34—15.
Garrison, Cid. Seat for a hobby horse or the like. 223,717, 5–30–72, Cl. D34—15.
Garrison, Cid. Seat for a hobby horse or the like. 223,718, 5–30–72. Cl. D34—15.
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Gaskins, Robert J. Combined mud flap support and tail light holder for trucks. 224,099, 7–4–72, Cl. D14—6.
Gaston, Cantin, to Twinpak Ltd. Container for liquids. 225,618, 12–26–72, Cl. D9—175.
Gates, Robin Ian Yeoman. Livestock branding device. 223,258, 4–4–72, Cl. D30—43.
Gaudio, John P. Guitar body. 224,050, 6–27–72, Cl. D56—1.
Gay, Derek J.: *See*—
Miller, Anthony D., Gay, and Smedley. 223,167.
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Gelardi, Joseph T., to American Technical Industries, Inc. Branch for an artificial tree or similar article. 223,497, 4–25–72. Cl. D29—1.
Gelardi, Joseph T., to American Technical Industries, Inc. Christmas tree. 224,598, 8–8–72, Cl. D29—1.
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Genaro, Donald M., to The Singer Co. Sewing machine frame or similar article. 223,058, 3–7–72, Cl. D70—1.
Genaro, Donald M., to The Singer Co. Sewing machine frame. 225,059, 3–7–72, Cl. D70—1.
Genaro, Donald M., to The Singer Co. Sewing machine attachment for making buttonholes or the like. 223,060, 3–7–72, Cl. D70—2.
Genaro, Donald M., to The Singer Co. Sewing machine or similar article. 224,809, 9–19–72, Cl. D70—1.
Genaro, Donald M., and R. R. Stokes, to Bell Telephone Laboratories, Inc. Table. 223,005, 2–22–72, Cl. D33—14.
Genaro, Donald M., R. A. Holmes, and S. E. Seretny; said Genaro, and said Seretny, assignors to Bell Telephone Laboratories, Inc.; said Holmes assignor to Western Electric Co. Outdoor telephone enclosure. 224,416, 7–25–72, Cl. D26—14.
Genaro, Donald M., T. J. Kelly, J. N. McGarvey, and R. R. Stokes, to Bell Telephone Laboratories, Inc. Videotelephone transceiver. 224,117, 7–4–72, Cl. D26—14.
Genaro, Donald M., J. N. McGarvey, and F. A. Rosebrock, to Bell Telephone Laboratories, Inc. Video telephone unit. 225,113, 11–14–72, Cl. D26—14.
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Gerlach, John R. Door handle and lock plate unit. 223,745, 6–6–72. Cl. D8—170.
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Gerlach, John R. Door handle and lock plate unit. 223,990, 6–27–72, Cl. D8—170.
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Gerlach, John R. Door handle and lock plate unit. 223,992, 6–27–72, Cl. D8—170.
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Giandomenico, Nicholas, to Acme General Corp. Combined door knob and rose. 225,394, 12–12–72, Cl. D8—143.
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Gilbert, Donald E., to Gilbert Electronics, Inc. Electrocuting trap for flying insects. 225,628, 12–26–72, Cl. D22—19.
Gilbert, Donald E., to Gilbert Electronics, Inc. Insect electrocutor. 225,629, 12–26–72, Cl. D22—19.
Gilbert, Donald E., to Gilbert Electronics, Inc. Wall-type insect electrocutor. 225,630, 12–26–72, Cl. D22—19.
Gilbert, Donald E., to Gilbert Electronics, Inc. Light attracting adhesive insect trap. 225,631, 12–26–72, Cl. D22—19.
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Gilson, Pierre C. J. Decorative building block. 223,446, 4–18–72, Cl. D18—2.
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Gladwin, Floyd R. Trash receptacle hopper. 225,452, 12–12–72, Cl. D49—35.
Glantz, Samuel N. and M. Combined carrying bag and racket case. 223,424, 4–11–72, Cl. D87—1.
Glaser, Frederick. Shampoo chair. 223,443, 4–18–72, Cl. D15—3.
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Goettl, Adam D. Louvered enclosure for air conditioning equipment and the like. 224,013, 6–27–72, Cl. D23—139.
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Goldstein, Gerald, to Babysitting Proprietary Ltd. Bathing support for infants and the like. 223,263, 4–4–72, Cl. D33—21.
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Gonzalez, Ralph A. Portable picnic cart. 223,148, 3–21–72, Cl. D14—3.
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Gorman, Dewitt Y. Entertainment center. 223,764, 6–6–72. Cl. D26—14.
Goto, Kazuo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera flash bracket. 223,513, 4–25–72, Cl. D61—1.
Goto, Kazuo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera focussing handle. 224,164, 7–4–72, Cl. D61—1.
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Grain, William W., to Documentor Sciences Corp. Electronic machine for use in document processing. 223,361, 4–11–72, Cl. D26—5.
Gran, William A., to The Vendo Co. Cigarette vending machine. 223,957, 6–20–72, Cl. D52—3.
Grange, Kenneth, T. Nighigami, and C. A. Harrison, to Sears, Roebuck and Co. Sewing machine. 225,574, 12–19–72, Cl. D70—1.
Granger, Dennis B., and H. D. Fetty, to Goodyear Tire & Rubber Co. Tire. 223,426, 4–11–72, Cl. D90—20.
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Graser, Earl J., to Olinkraft, Inc. Bottle carton. 224,205, 7–11–72, Cl. D9—176.
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Green, Joseph, to Joseph Green. Toy xylophone. 224,936, 10–17–72, Cl. D34—15.
Green, Lawrence E., and W. G. McDermott, to McDermott & Green, Inc. Holder for flower stems or the like. 225,424, 12–12–72, Cl. D35—3.
Green, Willis E. Combined tire tool and double warning lamp. 225,562, 12–19–72, Cl. D48—20.
Greenberg, Allen: *See*—
Meth, Harry, and Greenberg. 223,676.
Greene, Robert L., to Beckman Instruments, Inc. Device for electrochemical analysis. 225,005, 10–31–72, Cl. D16—2.
Greger, Richard W.: *See*—
Balbach, Sara L., and Greger. 225,309.
Gregor, Vaughn. Conveyor bucket. 225,128, 11–14–72, Cl. D55—1.
Greiner Electronic AG: *See*—
Wiedmann, Gerhard. 225,100.
Gretag Aktiengesellschaft: *See*—
Muchenberger, Ernest. 224,844.
Greubel, Jurgen, to Braun A.G. Hair dryer. 223,975, 6–20–72, Cl. D86—10.
Greubel, Jurgen, to Braun Aktiengesellschaft. Packaged educational electronic toy kit. 223,251, 4–4–72, Cl. D25—1.
Gribble, Joseph J., D. J. Arneberg, and D. E. Scott, to Square D Co. Electrical switch. 223,452, 4–18–72, Cl. D26—13.
Griese, Elmer W., Jr., to National Can Corp. Carrying handle for a container or the like. 224,093, 7–4–72, Cl. D9—291.
Griffin, Donald S.: *See*—
Duern, Gordon L., and Griffin. 224,690.
Duern, Gordon L., and Griffin. 224,691.
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Griffin Laboratories Inc.: *See*—
Kirchner, Fredric M., and Isen. 223,010.
Griffin, Roy D., Sr. Child's toy gun. 225,547, 12–19–72, Cl. D34—15.
Griffith, Robert L. Carton stacking bracket for pallets or the like. 222,903, 2–1–72, Cl. D8—233.
Griffith, Robert L. Carton stacking bracket for pallets or the like. 222,904, 2–1–72, Cl. D8—233.
Grigsby, Gilbert R., to Lubrastart International. Fluid dispensing unit for priming engines or the like. 225,282, 11–28–72, Cl. D77—1.
Grob, Curt H., Jr. Dwelling. 224,679, 8–29–72, Cl. D13—1.
Grob, Curt H., Jr. Dwelling. 224,779, 9–19–72, Cl. D13—1.
Grosfillex, Raymond, to Societe Grosfillex, Societe a Responsabilite Limitee. Chair. 223,569, 5–9–72, Cl. D15—1.
Grosfillex, Raymond, to Societe Grosfillex, Societe a Responsabilite Limitee. Chair. 224,192, 7–11–72, Cl. D6—70.
Grosfillex, Raymond, to Societe Grosfillex, Societe a Responsabilite Limitee. Chair. 224,193, 7–11–72, Cl. D6—70.
Growth International Industries Corp.: *See*—
Yates, George, Jr. 222,981.
Grube, Clifford E., to Associated Mills, Inc. Portable hand steamer. 223,856, 6–13–72, Cl. D49—13.
Grube, Clifford E., and R. J. Stern, to Associated Mills, Inc. Steam hair curler housing. 223,976, 6–20–72, Cl. D86—10.
Gruber, Alvin. Samovar or the like. 223,385, 4–11–72, Cl. D44—26.
Gruett, Donald G., to Oil-Rite Corp. Liquid level gauge or similar article. 223,776, 6–6–72, Cl. D52—6.
Gruskos, George F. Coin bank. 225,656, 12–26–72, Cl. D34—11.
Guidi, William R., to Digital Technology Corp. Digital tape recorder. 223,834, 6–13–72, Cl. D26—14.
Guldstrand, Robert C. Telephone accessory. 224,933, 10–17–72, Cl. D26—14.
Gulf+Western Industries, Inc.: *See*—
Miles, John R. 225,082.
Gulotta, Gerald, to Block China Corp. Plate. 225,430, 12–12–72, Cl. D44—15.
Gulotta, Gerald, to Block China Corp. Saucer. 225,431, 12–12–72, Cl. D44—9.
Gulotta, Gerald, to Block China Corp. Cup. 225,432, 12–12–72, Cl. D44—9.
Gunfaus, Juan, to Mery S.A. Combined pail and mop wringer. 222,892, 1–25–72, Cl. D49—29.
Guthrie, James H. Game board. 225,539, 12–19–72, Cl. D34—5.
Gutierrez, Julian. Phonograph record holder. 225,097, 11–14–72, Cl. D6—185.
Haas, Robert V., to The Singer Co. Oil container. 222,939, 2–8–72, Cl. D23—5.
Hadco Products, Inc.: *See*—
Bankert, Dean W. and Wilson. 225,676.
Hadlow, David M., to The Stanley Works, Drapery rod. 224,081, 7–4–72, Cl. D8—208.
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Kaelke, Edwin K. 224,120.
Kaelke, Edwin K. 224,414.
Hafer, Paul R., to Boyertown Auto Body Works. Electric bus body. 224,002, 6–27–72, Cl. D14—3.
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Wilson-Haffenden, Philip A. 224,385.
Wilson-Haffenden, Philip A. 224,386.
Hagberg, Calvin A., to Litton Systems, Inc. Microwave oven. 224,723, 9–5–72, Cl. D81—4.
Hagberg, Calvin A., to Litton Systems, Inc. Microwave oven. 224,724, 9–5–72, Cl. D81—4.
Hagberg, Calvin A., to Litton Systems, Inc. Microwave oven. 224,725, 9–5–72, Cl. D81—4.
Hagberg, Calvin A., to Litton Systems, Inc. Microwave oven. 224,726, 9–5–72, Cl. D81—4.
Hait, Paul W.: *See*—
Skinner, James R., Uitz, and Hait. 225,181.
Haley, Dwight L., to Ferro Corp. Combined reflective highway lane divider and road marker. 225,087, 11–7–72, Cl. D72—1.
Hall, Christopher. Fiberglass reinforced polyester housing structure. 223,486, 4–25–72, Cl. D13—901.
Hall, Christopher. Sectional panel element of a fiberglass reinforced polyester housing structure. 224,999, 10–31–72, Cl. D13—1.
Halloran, William X. Orthopedic drill guide target. 223,875, 6–13–72, Cl. D83—1.
Halopoff, William E., to FMC Corp. All terrain vehicle. 223,817, 6–13–72, Cl. D14—3.
Halpern, Arthur, to M. D. Sales Co., Inc. Pin wheel toy or similar article. 224,331, 7–18–72, Cl. D34—15.
Halpern, Arthur, to M. I. Sales, Inc. Building toy or similar article. 225,016, 10–31–72, Cl. D34—15.
Halpern, Arthur. Pin wheel toy or similar article. 225,549, 12–19–72, Cl. D34—15.
Halter, Dale F. Bow string drawing and releasing device. 225,634, 12–26–72, Cl. D22—99.
Hamburg, Henry F., and T. R. Fowler. Magnetic soap holder. 223,501, 4–25–72, Cl. D33—25.

Hames, Lester D. Ear covering. 224,583, 8–8–72, Cl. D42—259.
Hamilton-Skotch Corp., The: *See*—
White, Robert A. 222,890.
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Kuenster, Kenneth. 223,041.
Hammond, Philip S., to The Goodyear Tire & Rubber Co. Tire. 224,577, 8–1–72, Cl. D90—20.
Hamond, Jack M. Bumper air scoop. 223,105, 3–14–72, Cl. D14—6.
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Flynn, Daniel M., Bandoski, and Clow. 224,232.
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Anzai, Shiro, Murata, Nishikawa, and Hanakata. 224,116.
Hanamura, Kenji, to Tancho Co., Ltd. Bottle. 223,997, 6–27–72, Cl. D9—157.
Hanamura, Kenji, to Tancho Co., Ltd. Bottle. 225,617, 12–26–72, Cl. D9—169.
Hancock, Glen C., and W. T. Young, to Shoney's South, Inc. Building structure. 223,660, 5–23–72, Cl. D13—91.
Hancock, Glen C., and W. T. Young, to Shoney's South, Inc. Food bar. 224,171, 7–4–72, Cl. D80—2.
Hancock, John L., to Mastercrafters Clock Corp. Clock. 224,551, 8–1–72, Cl. D42—7.
Handy Anne, Inc.: *See*—
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Hanson-Hawk, Inc.; a division of Orion Industries: *See*—
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Hanson, Thomas E., and J. E. Jolliffe, to Proctor-Silex Inc. Combined toaster and oven or the like. 223,066, 3–7–72, Cl. D81—10.
Hardesty, Patrick T. Transfer game puzzle. 225,543, 12–19–72, Cl. D34—15.
Harding, Earl W. Uncoupling device for toy railroad cars. 224,975, 10–24–72, Cl. D34—15.
Hardman, Von A. Horse barn. 225,103, 11–14–72, Cl. D13—1.
Hardman, Von A. Horse barn. 225,104, 11–14–72, Cl. D13—1.
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Harrell, Vaughn R. Fishing rod handle. 223,826, 6–13–72, Cl. D22—23.
Harris, Billy J., P. L. Vergamini, and E. T. Yagelowich, to Gilbert & Barker Mfg. Co. Meter readout unit. 225,567, 12–19–72, Cl. D52—6.
Harris, Ewell J. Fish lures. 222,998, 2–22–72, Cl. D22—27.
Harris, Ewell J. Fish lure. 223,354, 4–11–72, Cl. D22—27.
Harris, Roger J. Hood ornament for automobile. 225,524, 12–19–72, Cl. D14—18.
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Harrison, Francis L.: *See*—
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Harrison, Larry D., and R. E. Kalvitis, to Xerox Corp. Acoustic coupler. 224,025, 6–27–72, Cl. D26—14.
Harrison, Robert E., to Hoerner Waldorf Corp. Shopping bag. 225,311, Cl. 12–5–72, Cl. D9—249.
Hart, Robert L., to W. R. Grace & Co. Garment hanger. 224,670, 8–22–72, Cl. D80—8.
Hart, Robert L., to W. R. Grace & Co. Garment hanger. 225,151, 11–21–72, Cl. D6—255.
Hart, Walter R., to The Union Fork and Hoe Co. Too head for a lawn rake. 223,794, 6–13–72, Cl. D8—13.
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Good, Wayne W. 225,504.
Hartley, Robert B., to The Cornelius Co. Semi-frozen product dispenser, or similar article. 223,185, 3–21–72, Cl. D94—3.
Hartley, Robert B., to The Cornelius Co. Beverage dispenser. 223,648, 5–16–72, Cl. D94—3.
Hartley, Robert B., to The Cornelius Co. Beverage dispenser. 223,649, 5–16–72, Cl. D94—3.
Hartley, Robert B., to The Cornelius Co. Semifrozen juice dispenser or similar article. 223,890, 6–13–72, Cl. D94—3.
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Hartsell, Hal C., Jr., and D. D. Tompkins, to Gilbert & Barker Mfg. Co. Gasoline dispenser island. 223,289, 4–4–72, Cl. D52—2.
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Harvey, James I., Jr. Automotive vehicle body. 223,103, 3–14–72, Cl. D14—3.
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Harville, Walter H. and J. M. Fishing worm. 224,009, 6–27–72, Cl. D22—27.
Harzmann, Wolfgang. Spinning toy. 224,743, 9–12–72, Cl. D34—15.
Hassinger, Donald F., to Pure Stat Corp. Water faucet attachment for improving the taste of drinking water. 222,860, 1–18–72, Cl. D23—35.
Hastings, Raymond I., to Professional Sports Marketing, Inc. Magazine rack. 224,198, 7–11–72, Cl. D6—184.
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Hauser, Jon W., to General Aviation Electronics, Inc. Glideslope indicator. 223,958, 6–20–72, Cl. D52—6.
Hauser, Jon W., to Elkay Mfg. Co. Sink. 224,533, 8–1–72, Cl. D23—62.
Hauser, Jon W., to Elkay Mfg. Co. Water cooler top. 224,573, 8–1–72, Cl. D67—4.
Hawkins, Harold V., R. A. Dick, and E. A. Bongort, to Columbus McKinnon Corp. Pendant hoist control. 222,966, 2–15–72, Cl. D26—13.
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Hawkins, Harold V., R. A. Dick, and E. A. Bongort, to Columbus McKinnon Corp. Pendant hoist control. 223,925, 6–20–72, Cl. D26—13.
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Hayes, Thomas H., and G. B. Zinnbauer, to Eli Lilly and Co. Bottle. 223,334, 4–11–72, Cl. D9—45.
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Hays, Kenneth S., and W. M. Werner, to AMP Inc. Die member. 224,561, 8–1–72, Cl. D54—4.
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Healy, Colin M., and A. M. Felske, to General Electric Co. Clock or similar article. 225,360, 12–5–72, Cl. D42—7.
Hearn, Verlin A. Combined saddlebag and backrest for a motorcycle or the like. 224,675, 8–22–72, Cl. D90—3.
Heaver, Philip A. Automobile radiator cap tool. 222,849, 1–18–72, Cl. D8—21.
Heck, Daniel C., to Illinois Tool Works Inc. Insulated jumper clip. 224,405, 7–25–72, Cl. D26—1.
Heck, Daniel C., to Illinois Tool Works, Inc. Jumper clip. 224,406, 7–25–72, Cl. D26—1.
Heckathorn, Michael V., to Foresight Products, Inc. Mirror. 225,285, 11–28–72, Cl. D86—10.
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Voytko, Charles L. 224,872.
Heenan, Sidney A., to Amerace Esna Corp. Combined reflector and lens. 224,986, 10–24–72, Cl. D72—1.
Heggen, Larry D. Vehicle door handle shield. 225,206, 11–28–72, Cl. D8—137.
Heimann, Richard F. Data display console. 224,110, 7–4–72, Cl. D26—5.
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Henning, Steven A., and P. G. Miller, to American Playground Device Co. Playground climbing bars. 225,072, 11–7–72, D34—5.
Henning, Steven A., and P. G. Miller, to American Playground Device Co. Playground climbing bars. 225,073, 11–7–72, D34—5.
Henning, Steven A., and P. G. Miller, to American Playground Device Co. Playground climbing bars. 225,344, 12–5–72, Cl. D34—5.
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Herd, Robert J., to March Engineering Ltd. Model racing car. 223,543, 5–2–72, Cl. D34—15.
Hermann, Lawrence. Toothbrush. 223,651, 5–23–72, Cl. D4—25.
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Hermanson, Terry, to Mr. Christmas Inc. Decorative reflector for a Christmas light. 224,237, 7–11–72, Cl. D29—1.
Hernandez, Angel F. Tether toy. 224,332, 7–18–72, Cl. D34—15.
Herricht, Fred, to Boyertown Burial Casket Co. Burial casket. 223,903, 6–20–72, Cl. D19—1.
Hess, Ann M. Cordless vibrating massager or similar article. 223,418, 4–11–72, Cl. D83—1.
Hess, Roy P., to True Temper Corp. 223,606, 5–16–72, Cl. D22—25.
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Hiatt, Wilbur L. Backup plate for a pneumatic vehicle impact bumper. 224,966, 10–24–72, Cl. D14—6.
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Hiatt, Wilbur L. Casting for a pneumatic vehicle impact bumper. 224,969, 10–24–72, Cl. D14—6.
Higashida, Hiroshi. Numeral indicator for computers or the like. 225,068, 11–7–72, Cl. D26—5.
Higgins, Warren R. Ring. 225,367, 12–5–72, Cl. D45—10.
Hildebrand, Oliver W., to Wirecraft Mfg. Co. Support stand for an air spraying container. 224,027, 6–27–72, Cl. D33—3.
Hilger, Ronald O., to Associated Mills Inc. Hand massager. 223,876, 6–13–72, Cl. D83—1.
Hill, David L., to Leonard W. Johnson. Combined advertising cabinet and film depository. 225,600, 12–26–72, Cl. D6—167.
Hill, Frederick M., to Ranco Inc. Wall thermostat. 225,453, 12–12–72, Cl. D52—7.
Hill, John E., R. W. Henes, and W. H. Dean; said Henes and said Hill assignors to said Dean. Cover for truck bed. 224,704, 9–5–72, Cl. D14—27.
Hill, Lyman L., Jr., J. A. Odom, Jr., and N. T. Wolfe. Indicating condition controller. 224,047, 6–27–72, Cl. D52—7.
Hill, Loran R., to AMF Inc. Tricycle. 224,254, 7–11–72, Cl. D34—15.
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Hinman, Ronald C., to Western Gear Corp. Portable loading vestibule. 223,087, 3–7–72, Cl. D13—1.
Hirata, Reiichiro, to Kabushiki Kaisha Yamashima Seikosho. Screw. 223,560, 5–9–72, Cl. D8—267.
Hirayama, Kazuhiro, to Hitachi, Ltd. Clock radio. 222,979, 2–15–72, Cl. D42—7.
Hirschl, Paul. Suspension hook for a curtain, or the like. 225,507, 12–19–72, Cl. D8—248.
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Hjelmquist, Stig Gunnar. Bicycle exerciser. 224,329, 7–18–72, Cl. D34—5.
Ho, Charles W. Telephone answering machine. 225,649, 12–26–72, Cl. D26—14.
Hobbensiefken, Dean. Truck cab. 225,624, 12–26–72, Cl. D14—3.
Hock, Donal D., to Mattel, Inc. Swing seat or the like. 224,244, 7–11–72, Cl. D34—5.
Hock, Donal D., to Mattel, Inc. Combined playground climber and support for swings or the like. 224,245, 7–11–72, Cl. D34—5.
Hock, Donal D., R. E. Feigenbaum, E. N. Korte, and W. R. Baynes, to Mattel, Inc. Playground apparatus or the like. 224,243, 7–11–72, Cl. D34—5.
Hodge, Lynn H. Rear view mirror. 223,089, 3–7–72, Cl. D14—6.
Hodge, Lynn H. Stationary car-top mirror. 223,090, 3–7–72, Cl. D14—6.
Hodge, Lynn H. Rear view mirror. 223,241, 4–4–72, Cl. D14—6.
Hodge, Lynn H. Rear view mirror. 224,299, 7–18–72, Cl. D14—6.
Hodge, Lynn H. Rear view mirror. 224,300, 7–18–72. Cl. D14—6.
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Jones, Clifton E., to Anderson Safeway Guard Rail Corp. Overhead sign support. 225,488, 12–12–72, Cl. D96—12.
Jones, Clifton E., to Anderson Safeway Guard Rail Corp. Overhead sign support. 225,593, 12–19–72, Cl. D96—12.
Jones, David A., to The Drackett Co. Air freshener container. 224,783, 9–19–72, Cl. D23—150.
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Jones, Jack, to Cessna Aircraft Co. Aircraft service structure. 223,749, 6–6–72, Cl. D13—1.
Jones, Kenneth E., to SCOA Industries, Inc. Shoe heel. 223,-078, 3–7–72, Cl. D2—323.
Jones, Robert L. Drawer guide or similar article. 225,603, 12–26–72, Cl. D6—191.
Jones, Richard B. Camera support bracket for a tripod. 225,573, 12–19–72, Cl. D61—1.
Jones-Zylon, Inc.: *See*—
Collins, Delmas E. 224,222.
Collins, Delmas E. 225,436.
Jorgensen, Hans P. Shelf unit. 223,201, 3–28–72, Cl. D33—3.
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Judson, William V., to General Electric Co. Clock or similar article. 223,627, 5–16–72, Cl. D42—7.
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Flider, Frank S. 224,839.
Flider, Frank S. 225,109.
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Kachler, Robert S. Dragster. 223,344, 4–11–72, Cl. D14—3.
Kaelke, Edwin K., to The Haeger Potteries, Inc. Floral vase or the like. 224,120, 7–4–72, Cl. D29—28.
Kaelke, Edwin K., to The Haeger Potteries, Inc. Floral vase or the like. 224,414, 7–25–72, Cl. D29—28.
Kahl, William G., Jr., to Arrowhead Enterprises, Inc., Photoelectric intrusion detector unit. 224,629, 8–15–72, Cl. D72—1.
Kahn, Robert D., to Fedtro, Inc. Circuit test probe. 223,108, 3–14–72. Cl. D26—1.
Kahn, Robert D., to Fedtro, Inc. Insect electrocuting trap. 223,825, 6–13–72, Cl. D22—19.
Kahn, Robert D., to Fedtro, Inc. Master control panel for alarm systems or the like. 223,926, 6–20–72, Cl. D26—13.
Kahn, Robert D., to Fedtro, Inc. Siren. 224,276, 7–11–72, Cl. D72—1.
Kahn, Robert D., to Fedtro, Inc. Photo electric switch. 224,-318, 7–18–72, Cl. D26—1.
Kahn, Robert D., to Fedtro, Inc. Combined control panel and switch. 224,621, 8–15–72, Cl. D26—13.
Kainass, Andrew, to General Electric Co. Portable tape recorder. 224,235, 7–11–72, Cl. D26—14.
Kaiser Aluminum & Chemical Corp.: *See*—
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Kamata, Eitaro, to Shoei Kakoh Co., Ltd. Helmet. 224,182, 7–11–72, Cl. D2—232.
Kamins, Seymour, D. Gelles, and J. Horodecky, to CTP Industries Inc. Combined closure and handle for a carrier bag. 223,699, 5–30–72, Cl. D8—154.
Kamins, Seymour, D. Gelles, and J. Horodecky, to CTP Industries Inc. Combined closure and handle for a carrier bag. 223,700, 5–30–72, Cl. D8—154.
Kamins, Seymour, and N. Rosenberg, to CTP Industries Inc. Hook support for carrier bag handle. 223,229, 4–4–72, Cl. D8—246.
Kamins, Seymour, and N. Rosenberg, to CTP Industries Inc. Hook support for carrier bag handle. 223,230, 4–4–72, Cl. D8—246.
Kamins, Seymour, and N. Rosenberg, to CTP Industries Inc. Hook support for carrier bag handle. 224,826, 9–26–72, Cl. D8—246.
Kamrath, Richard H., F. L. Harrison, and R. C. Bauer, to U.S. Plywood-Champion Papers Inc. Wall paneling. 222,-855, 1–18–72 Cl. D13—1.
Kaneko, Shiro. Spoon or similar article. 222,952, 2–8–72, Cl. D54—12.
Kanno, Kyusei, to Asahi Kogaku Kogyo Kabushiki Kaisha. Eye level view finder for camera. 224,941, 10–17–72, Cl. D61—1.
Kanno, Kyusei, to Asahi Kogaku Kogyo Kabushiki Kaisha. Single lens reflex camera. 225,034, 10–31–72, Cl. D61—1.
Karasek, Josef H., to McNamara Racing K.G. Model racing car. 222,916, 2–1–72, Cl. D34—15.
Karasek, Josef H., to McNamara Racing K.G. Model racing car. 225,663, 12–26–72, Cl. D34—15.
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Kastner, Arnold. Cigarette making machine. 223,523, 4–25–72. Cl. D85—7.
Kastner, Josef. Table or similar article. 225,291, 12–5–72, Cl. D6—177.
Katayama, Isao, assignor to Minolta Camera Kabushiki Kaisha, and Matsushita Electric Industrial Co., fractional part interest to each. Motion picture sound projector-viewer unit. 223,729, 5–30–72, Cl. D61—1.
Kathmann, Wayne F. Combined trailer and kitchen unit. 225,520, 12–19–72, Cl. D14—3.
Kato, Itsuo: *See*—
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Kattelmann, Harry R.: *See*—
Coleman, Clarence B., and Kattelmann. 223,094.
Coleman, Clarence B., and Kattelmann. 225,126.
Katz, Maurice D. Circular radio tuning frequency control with transverse indicator faces. 224,407, 7–25–72, Cl. D26—1.
Katz, Maurice D. Transverse radio tuning indicator face plate. 225,012, 10–31–72, Cl. D26—1.
Katz, Maurice D. Transverse radio tuning indicator face plate (6). 225,058, 11–7–72, Cl. D26—1.
Katz, Maurice D. Radio tuning indicator face plate (4). 225,059, 11–7–72, Cl. D26—1.
Katz, Maurice D. Transverse radio tuning indicator face plate (5). 225,060, 11–7–72, Cl. D26—1.
Katz, Maurice D. Circular radio tuning frequency control with transverse indicator faces (12). 225,061, 11–7–72, Cl. D26—1.
Katz, Maurice D. Combined magnifier and radio tuning indicator. 225,062, 11–7–72, Cl. D26—1.
Katz, Maurice D. Radio tuning indicator face plate (8). 225,063, 11–7–72, Cl. D26—1.
Katz, Maurice D. Radio tuning indicator face plate (7). 225,064, 11–7–72 Cl. D26—1.
Katz, Maurice D. Portable radio dual tuning face indicator plate. 225,066, 11–7–72, Cl. D26—1.
Katz, Maurice D. Three sided radio tuning indicator face plate. 225,067, 11–7–72 Cl. D26—1.
Katz, Maurice D. Radio tuning indicator face plate (1). 225,-406, 12–12–72, Cl. D26—1.
Katz, Maurice D. Transverse radio tuning indicator face plate (2). 225,407, 12–12–72, Cl. D26—1.
Katz, Maurice D. Combined radio tuning indicator and magnifier. 225,408, 12–12–72, Cl. D26—1.
Katz, Maurice D. Angular tuning indicator face plate. 225,-409, 12–12–72, Cl. D26—1.

Katz, Maurice D. Arcuate radio tuning indicator face plate. 225,410, 12–12–72, Cl. D26—1.
Kauffman, Fred, and D. C. Siverts, to Hitco. Beverage serving cart. 223,152, 3–21–72, Cl. D14—3.
Kaufman, James C., and R. L. Funkhouser, to The National Cash Register Co. Microform reader. 223,963, 6–20–72, Cl. D61—1.
Kavanagh, Thomas S., R. H. Ralston, R. R. Campbell, J. I. Aweida, and R. A. Thurmer, to Storage Technology Corp. Magnetic tape unit. 223,922, 6–20–72, Cl. D26—5.
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Sakai, Jiro, Kawaguchi, and Noda. 224,456.
Kawamura, Ken, and K. Makino. Radio receiver. 223,512, 4–25–72, Cl. D56—4.
Kayle, Jerry P., to Pacific Game Co., Inc. Three dimensional game board. 223,540, 5–2–72, Cl. D34—5.
Kazuma, Koji, and K. Omi, to Canon Kabushiki Kaisha. Microfilm contact printer. 223,594, 5–9–72, Cl. D61—1.
Keeler Brass Co.: *See*—
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Kelbish, Edward D. Pre-assembled modular housing structure. 223,905, 6–20–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 223,906, 6–20–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 223,907, 6–20–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 223,908, 6–20–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 224,216, 7–11–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 224,217, 7–11–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 224,218, 7–11–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 224,295, 7–18–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 224,296, 7–18–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 224,297, 7–18–72, Cl. D13—1.
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Kelbish, Edward D. Pre-assembled modular housing structure. 225,054, 11–7–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 225,055, 11–7–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 225,313, 12–5–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 225,314, 12–5–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 225,316, 12–5–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 225,317, 12–5–72, Cl. D13—1.
Kelbish, Edward D. Pre-assembled modular housing structure. 225,318, 12–5–72, Cl. D13—1.
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Keller, Huey T. Headboard for a bedstead or similar article. 225,491, 12–19–72, Cl. D5—4.
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Kelso, James W., to MSI Data Corp. Data collection component. 223,002, 2–22–72, Cl. D26—5.
Kelso, James W., to MSI Data Corp. Data input terminal. 224,230, 7–11–72, Cl. D26—5.
Kemp, Margaret J. Letter holder. 223,640, 5–16–72, Cl. D74—2.
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Kenerson, Richard A. Combined trash receptacle and advertising display. 223,956, 6–20–72, Cl. D49—35.
Kenjiro, Goto. Cigarette lighter. 224,915, 10–10–72, Cl. D48—27.
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Kerman, Wilbur J., to Cubicon Corp. Stackable table. 224,494, 8–1–72, Cl. D6—177.
Kermes, Constantine J., to Sperry Rand Corp. Lawn and garden tractor. 224,298, 7–18–72, Cl. D14—3.
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Kim, Marjorie M., to Wilford Cruz. Magnetic game table. 223,380, 4–11–72, Cl. D34—5.
Kimmel, Irvine. Extruded H connector member. 223,088, 3–7–72, Cl. D13—6.
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King, James R., and G. D. Myers, to King Nutronics Corp. Parachute actuator test chamber. 223,122, 4–14–72, Cl. D52—1.
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King, William R., to Sandoz-Wander, Inc. Full face mask. 225,582, 12–19–72, Cl. D83—1.
Kingsley, Eleanor V. Litter receptacle. 222,921, 2–1–72, Cl. D49—35.
Kingston, Kenneth D. Shag rug comb head. 223,100, 3–14–72, Cl. D4—3.
Kinkel, Christian F. and B. F. Pillnik, to American Can Co. Container end. 224,209, 7–11–72, Cl. D9—255.
Kinney, Alfred W., to Phillips Petroleum Co. Closure or similar article. 222,905, 2–1–72, Cl. D9—267.
Kinsinger, William C. Metagraphic Systems, Inc. Microfilm viewer. 223,054, 3–7–72, Cl. D61—1.
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Kirby, Edna M. Glove. 223,695, 5–30–72, Cl. D2—375.
Kirchner, Fredric M., and A. A. Isen, to Griffin Laboratories Inc. Contact lens case. 223,010, 2–22–72, Cl. D57—1.
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Kirkbride, Alec B., to Tudor Accessories Ltd. Liquid sprayer. 224,531, 8–1–72, Cl. D23—18.

Kirkman, David F., and G. T. Miller. Bowstring release. 223,973, 5–9–72, Cl. D22—55.
Kirkpatrick, George A. Dolly for handling rolls of carpeting. 223,343, 4–11–72, Cl. D14—3.
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Kitson, Gerald L. Poultry cage divider panel. 225,337, 12–5–72, Cl. D30—1.
Kitson, Gerald L. Laying cage divider. 225,416, 12–12–72, Cl. D30—1.
Kitson, Gerald L. Wire mesh panel for poultry cages. 225,417, 12–12–72, Cl. D30—2.
Kittner, Benjamin, to Vernitron Medical Products Inc. Cleaning adapter for a jet hypodermic injection device. 225,185, 11–21–72, Cl. D83—12.
Klein, Arnold H., to Klein Industries, Inc. Wardrobe cabinet. 224,870, 10–3–72, Cl. D6—164.
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Klob, Robert N., to Hydrodynamics, Inc. Baptistry control console. 224,741, 9–12–72, Cl. D26—13.
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Kloster, Glenn R. Car speaker cabinet. 223,670, 5–23–72, Cl. D26—14.
Klupp, George A., Jr. Lamp. 223,720, 5–30–72, Cl. D48—20.
Knapp, George A., to R. E. Dietz Co. Vehicle marker light lens. 224,142, 7–4–72, Cl. D48—32.
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Knope, William J., to International Silver Co. Spoon or similar article of flatware. 224,345, 7–18–72, Cl. D54—12.
Knope, William J., to International Silver Co. Spoon or similar article or flatware. 225,455, 12–12–72, Cl. D54—12.
Knowles, Frederick G., to Eastman Kodak Co. Keyboard for a microfilm retrieval system. 224,791, 9–19–72, Cl. D26—5.
Knox, William C., Jr., to Kenneth R. Jacobson. Animal bed. 224,792, 9–19–72, Cl. D30—41.
Knox, William W., to Mag-Nif, Inc. Game piece box. 222,945, 2–8–72, Cl. D34—5.
Knox, William W., to Mag-Nif, Inc. Novelty amusement device. 222,946, 2–8–72, Cl. D34—15.
Knox, William W., to Mag-Nif, Inc. Transposition puzzle. 222,947, 2–8–72, Cl. D34—15.
Knox, William W., to Mag-Nif, Inc. Stacking puzzle. 222,948, 2–8–72, Cl. D34—15.
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Koblick, Sol N. Combined valve and aerator for faucets. 225,402, 12–12–72, Cl. D23—20.
Koch, Bruce A., to Leisure Dynamics Inc. Watch. 223,630, 5–16–72, Cl. D42—8.
Koch, Samuel J. Combined cigarette lighter and ash tray. 223,878, 6–13–72, Cl. D85—2.
Kodaira, Yasuo, Nihon Kaiheiki Kogyo Kabushiki Kaisha. Switch. 225,111, 11–14–72, Cl. D26—13.
Kodinsky, Harry. Display unit. 224,496, 8–1–72, Cl. D6—186.
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Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle or similar article. 224,511, 8–1–72, Cl. D9—90.
Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle of similar article. 224,512, 8–1–72, Cl. D9—90.
Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle or similar article. 224,513, 8–1–72, Cl. D9—90.
Koerber, Mary G. Paper boy collection bag. 223,315, 4–4–72, Cl. D87—3.
Kohl, Frederick G., and R. K. Marceca, to Rio Enterprises Inc. Chair. 224,633, 8–22–72, Cl. D6—12.
Kohl, Frederick G., and R. K. Marceca, to Rio Enterprises Inc. A-shaped chair. 224,634, 8–22–72. Cl. D6—12.
Kohl, Frederick G., and R. K. Marceca, to Rio Enterprises Inc. Chair. 225,945, 11–7–72, Cl. D6—12.
Kohler Co.: *See*—
Doman, Donald W. 224,108.
Doman, Donald W. 224,225.
Doman, Donald W. 224,945.
Kohlmaier, Joy W.: *See*—
Kohlmaier, Ruppert N., Jr. and J. W. 223,581.
Kohlmaier, Ruppert N., Jr. and J. W. 223,934.
Kohlmaier, Ruppert N., Jr. and J. W. Plaque. 223,581, 5–9–72, Cl. D29—23.
Kohlmaier, Ruppert N., Jr. and J. W. Plaque. 223,934, 6–20–72, Cl. D29—23.
Koizumi, Susumu. Spinal cord treating apparatus. 223,690, 5–23–72, Cl. D83—1.
Kokado, Kazuo. Umbrella runner. 224,371, 7–18–72, Cl. D88—3.
Komark Inc.: *See*—
Purcell, James B. 223,102.
Komendat, Michael B., Jr. Football down and ball marker. 223,165, 3–21–72, Cl. D34—5.
Kondo, Naoyoshi: *See*—
Watanabe, Shigeru, Ishihara, and Kondo. 223,236.
Kondo, Ryozo. Miniature air compressor or the like. 222,846, 1–11–72, Cl. D65—1.
Kondo, Ryozo. Miniature air compressor or the like. 222,847, 1–11–72, Cl. D65—1.
Kondo, Ryozo. Air-pump for aquarium. 224,354, 7–18–72, Cl. D65—1.
Kondo, Ryozo. Air-pump for aquarium. 224,355, 7–18–72, Cl. D65—1.
Kondo, Ryozo. Air-pump for aquarium. 224,356, 7–18–72, Cl. D65—1.
Kondo, Ryozo. Air-pump for aquarium. 224,357, 7–18–72, Cl. D65—1.
Kondo, Ryozo. Air-pump for aquarium. 224,358, 7–18–72, Cl. D65—1.
Kondo, Ryozo. Aquarium air pump or the like. 224,359, 7–18–72. Cl. D65—1.
Kondo, Ryozo. Aquarium air pump or the like. 224,360, 7–18–72. Cl. D65—1.
Kondo, Ryozo. Air-pump for aquarium. 224,667, 8–22–72, Cl. D65—1.
Kool, Bram, to Microform Data Systems, Inc. Film strip cartridge. 223,117, 3–21–72, Cl. D61—1.
Koolbergen, Jan A., to Compret N.V. Exercise rod or similar article. 223,614, 5–16–72, Cl. D34—5.
Korn, Homer: *See*—
Derby, Dan R., Knodt, and Korn. 224,054.
Knodt, Ruediger W., and Korn. 225,572.
Korte, Erwin N.: *See*—
Hock, Donal D., Feigenbaum, Korte, and Baynes. 224,243.
Kosoky Electric Co., Ltd.: *See*—
Uchida, Isamu. 224,880.
Kostanecki, Andrew T., to Bangor Punta Operations, Inc. Cabin for sailboat or the like. 224,985, 10–24–72, Cl. D71—1.
Kostee, Frank, Sr. Tie-down device. 224,082, 7–4–72, Cl. D8—229.
Kountz, John C. Magnetic tape reel adapter. 223,367, 4–11–72, Cl. D26—14.
Kovacevic, Radoslav. Handle for jar and bottle opener. 222,795, 1–4–72, Cl. D8—40.
Koziol, Walter, to Beatrice Foods Co. Lamp. 222,920, 2–1–72, Cl. D48—31.
Krabbe, Vernon L.: *See*—
Condon, Richard W., Krabbe, Johannes, and Combs. 222,902.
Krajesti, Alexander. Combined paint box stand and easel. 225,116, 11–14–72, Cl. D29—20.
Krause, Stephen R., assignor of one-half percent to Edward Stringer. Combined amplifier and speaker unit. 224,909, 10–10–72, Cl. D26—14.
Kravitz, Harry, to Andorra Nurseries, Inc. Bottle or similar article. 224,827, 9–26–72, Cl. D9—47.
Kreisler Mfg. Corp.: *See*—
Arnone, Michael P. 225,690.
Euseki, Richard K., and Arnone. 223,870.
Kretschmer, H. John, to Modumatic Industries, Inc. Dental operatory unit. 225,230, 11–28–72, Cl. D24—1.
Kretz, Edward J., to Owens-Illinois, Inc. Combined jug and closure. 224,200, 7–11–72, Cl. D9—41.
Kretz, Edward J. Jug. 224,828, 9–26–72, Cl. D9—42.
Krivda, Alfred. Necktie. 223,984, 6–27–72, Cl. D2—357.
Krock, Albert W., to The Scott & Fetzer Co. Cutlery handle. 225,387, 12–5–72, Cl. D95—3.
Kroll, Frederick H. Clown pinwheel or similar article. 224,549, 8–1–72, Cl. D34—15.
Krueger, Wallace F. Plural fluid control mixing and spray gun. 224,305, 7–18–72, Cl. D23—17.
Krumin, Donald K., and R. J. Toth, to Motorola, Inc. Television camera or similar article. 222,955, 2–8–72, Cl. D61—1.
Krumin, Donald K., and R. J. Toth, to Motorola, Inc. Radio pager or similar article. 223,097, 3–7–72, Cl. D26—14.
Krusche, Kurt, and H. Zimmermann, to ALLSTAR Verbrauchsguter GmbH & Co., KG (Allstar Consumer Products Co.). Fabric brush. 223,597, 5–9–72, Cl. D86—13.

Kuchar, Joseph, to Record Chemical Co., Inc. Dispensing container for chemicals. 223,337, 4–11–72, Cl. D9—218.
Kuchar, Joseph, to Record Chemical Co., Inc. Display box. 224,208, 7–11–72, Cl. D9—242.
Kuchta, Frank J.: *See*—
Bass, Sidney, Baeaz, Christopher, and Kuchta. 224,249.
Kuenster, Kenneth, to Hammermill Paper Co. Modular display stand. 223,041, 2–29–72, Cl. D80—9.
Kuest, Johnnie. Abrasive grinding wheel. 225,665, 12–26–72, Cl. D37—1.
Kuest, Johnnie. Abrasive grinding wheel including entrance way. 225,666, 12–26–72, Cl. D37—1.
Kughta, Frank J. and R. L. May, to Mattel, Inc. Combined phonograph record and support for figure toy or the like. 223,842, 6–13–72, Cl. D34—4.
Kuklinski, Rosemarie T. Hat or similar article. 223,328, 4–11–72, Cl. D2—257.
Kulbersh, Irwin R.: *See*—
Ferdinand, Irwin J., and Kulbersh. 223,886.
Kuniansky, Raymond L., to Anaconda Aluminum Co. Door. 223,902, 6–20–72, Cl. D13—1.
Kunkle, George E., Jr. Beverage smoother unit. 223,889, 6–13–72, Cl. D94—3.
Kuntz, Dieter E. W. Ski bob. 223,166, 3–21–72, Cl. D34—15.
Kupperman, Dennis I.: *See*—
Kupperman, Sam and D. I. 225,653.
Kupperman, Sam and D. I. Kite. 225,653, 12–26–72, Cl. D34—15.
Kuroki, Fuyo. Spinning reel. 223,355, 4–11–72, Cl. D22—25.
Kusek, Edwin F., to Borden, Inc. Bottle or the like. 223,804, 6–13–72, Cl. D9—2.
Kwekel, Richard A.: *See*—
Tanis, Marvin W., and Kwekel. 225,423.
Kyle, Leslie B., to Key Hydroponics Ltd. Hydroponic garden unit. 224,746, 9–12–72, Cl. D35—3.
Kyoeikogyo Kabushikikaisha: *See*—
Miyeshi, Iwawe. 225,604.
LTV Aerospace Corp.: *See*—
Matza, Edward C. 224,845.
La Barber, Joseph A., to Weiland, Henry. Housing for blower vacuum or similar air circulating device. 223,734, 5–30–72, Cl. D83—901.
La Barge, Inc.: *See*—
Williams, John M. 225,361.
Labrecque, Andre G. Air Freshener. 223,578, 5–9–72, Cl. D23—150.
Laco Mfg. Co.: *See*—
Lacy, Thomas W., Jr. 223,357.
Lacy, Thomas W., Jr., to Laco Mfg. Co. Pump. 223,357, 4–11–72, Cl. D23—14.
Laerstrom, Robert C.: *See*—
Walz, David K., and Laerstrom. 224,624.
La Goy, Byron L. Game. 224,837, 9–26–72, Cl. D34—5.
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Bixler, Loring C., Davis, Lahey, McCormick, and Wiener. 224,682.
Lahr/Simons Inc.: *See*—
Lauer, Robert J. 224,497.
Lake, Susan: *See*—
Meth, Harry, and Lake. 223,164.
Meth, Harry, and Lake. 223,615.
Meth, Harry, and Lake. 223,936.
Meth, Harry, and Lake. 224,239.
Lamb, Bernard D. Flagman's safety paddle. 224,628, 8–15–72, Cl. D72—1.
Lamb, Thomas. Chair. 223,347, 4–11–72, Cl. D15—1.
Lamb, Thomas. Chair. 225,495, 12–19–72, Cl. D6—67.
Lamb, Thomas, & Associates Ltd.: *See*—
Lamb, Thomas L. 223,445.
Lamb, Thomas L., to Thomas Lamb & Associates Ltd. Chaise longue. 223,445, 4–18–72, Cl. D15—11.
Lambach, Adolph D.: *See*—
Merendino, Salvatore, Barczak, and Lambach. 224,270.
Lambda Electronics Corp.: *See*—
Paulson, Maurice G., Kelleher, Price, and Levin. 223,932.
Lamberson, Jack L. Teaching device. 224,739, 9–12–72, Cl. D25—1.
Lambert, Jimmy M. Car top camper. 223,243, 4–4–72, Cl. D14—27.
Lambertz, Martin R., to Amerock Corp. Escutcheon plate. 223,746, 6–6–72, Cl. D8—179.
Lambroff, George W.: *See*—
Liddle, David E., and Lambroff. 224,947.
Lamda Electronics Corp.: *See*—
Projain, Richard, and Gold. 224,971.
Laminar Flow, Inc.: *See*—
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Landell, Harper, to Speakman Co. Hand shower body. 224,834, 9–26–72, Cl. D23—35.
Landshire Products, Inc.: *See*—
Marquart, Clarence F. 224,064.
Lane, Bert: *See*—
Elson, Edward T., Lane, and Karlin. 223,475.
Lang, Karl, and H. Steiner, to Mettler Instrumente AG. Stackable housing unit for electronic equipment. 223,198, 3–28–72, Cl. D26—5.
Lange, Gerd, to Firma Drabert Sohne. Chair. 225,195, 11–28–72, Cl. D6—66.
Langworthy, Joseph J. Wall rack for nails or the like. 224,773, 9–19–72, Cl. D6—130.
Langworthy, Joseph J. Wall rack for nails or the like. 224,774, 9–19–72, Cl. D6—130.
Langworthy, Joseph J. Tote pack for nails or the like. 224,816, 9–19–72, Cl. D87—1.
Lannoch, Hans-Jurgen, to Fichtel & Sachs AG. Gear shift housing for a bicycle. 224,922, 10–10–72, Cl. D90—1.
Lannoch, Hans-Jurgen, to Fichtel & Sachs AG. Speed shift housing for a bicycle having dual cross bars. 225,591, 12–19–72. Cl. D90—1.
Lansburg Electro-Coating Corp.: *See*—
Scharfenberger, James A., and Snyder. 225,107.
Lansing Bagnall Ltd.: *See*—
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Lapeyre, James M. Insert roll hold down. 224,151, 7–4–72, Cl. D55—1.
Lapeyre, James M., Insert roll hold down. 224,152, 7–4–72, Cl. D55—1.
Lapeyre, James M. Insert roll hold down. 224,153, 7–4–72, Cl. D55—1.
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Lapointe, Yves A., to Bombardier Ltd. Snowmobile seat. 223,709, 5–30–72. Cl. D14—24.
Lapointe, Yves A., and P. Delisle, to Bombardier Ltd. Watercraft. 223,414, 4–11–72, Cl. D71—1.
Lapointe, Yves A., and A. D. MacKeen, to Bombardier Ltd. Snowmobile sleigh. 224,907, 10–10–72, Cl. D14—24.
Lapworth, Charles W. Sailboat hull with retractable keel. 222,816, 1–4–72, Cl. D71—1.
Lar-Mar-Co. Props, Inc.: *See*—
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Larson, Charles O. Display stand. 224,060, 6–27–72, Cl. D80—9.
Larson, Charles O. Display stand. 224,061, 6–27–72, Cl. D80—9.
Larson, Charles O. Display stand. 224,062, 6–27–72, Cl. D80—9.
Larson, Ellis D. Component for railings, grill works, columns and the like. 224,095, 7–4–72, Cl. D13—1.
Larson, Ellis D. Component for firill works, railings, columns and the like. 224,211, 7–11–72, Cl. D13—1.
Larson, Ellis D. Component for grill works, railings, columns and the like. 224,212, 7–11–72, Cl. D13—1.
Larson, Orville W., to Ampex Corp. Magnetic tape television apparatus. 223,366, 4–11–72, Cl. D26—14.
Larson, Orville W., to Ampex Corp. Television camera. 223,410, 4–11–72, Cl. D61—1.
Larson, Orville W., to Ampex Corp. Combined magnetic tape cassette transport and radio. 224,316, 7–18–72, Cl. D26—14.
Larue, Phillip G., to Calcinator Corp. Outdoor incinerator. 223,157, 3–21–72, Cl. D23—85.
Lash, Thomas E.: *See*—
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La Torre, Jean. Finger ring or similar article. 225,079, 11–7–72, Cl. D45—10.
Lauer, Darrel A., to Ampex Corp. Magnetic tape duplicator. 223,928, 6–20–72, Cl. D26—14.
Lauer, Donald G., C. C. Woodring, and J. A. Rinaldi, to J. C. Penney Co., Inc. Vanity sink. 224,308, 7–18–72, Cl. D23—58.
Lauer, Robert J., to Lahr/Simons Inc. Tape storing cabinet or the like. 224,497, 8–1–72, Cl. D6—189.
Laughlin, Clayton A., to Arthur Salm, Inc. Thermometer or similar article. 223,211, 3–28–72, Cl. D52—7.
Laughlin, Clayton A., to General Foods Corp. Activity toy. 223,847, 6–13–72, Cl. D34—15.
Laughlin, Clayton A., to Arthur Salm Inc. Article of flatware. 225,177, 11–21–72, Cl. D54—12.
Laughon, Thomas C., to Eastman Kodak Co. Design for photofinishing console. 224,165, 7–4–72, Cl. D61—1.
Laughon, Thomas C., to Eastman Kodak Co. Design for film cutter. 224,449, 7–25–72, Cl. D61—1.
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Laurtech International Co.: *See*—
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Lausch, John W. Support for concrete reinforcing rod. 223,701, 5–30–72, Cl. D8—228.
Lawson, Bruce F. Pulling tool or similar article. 224,080, 7–4–72, Cl. D8—14.
Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 224,381, 7–25–72, Cl. D9—1.
Lax, Michael, to Formica Corp. Combined bathtub and shower module. 223,607, 5–16–72, Cl. D23—49.
Lax, Michael, to Formica Corp. Combined bathtub and shower module. 223,608, 5–16–72, Cl. 23—49.
Lax, Michael, to Formica corp. Modular shower stall. 223,609, 5–16–72, Cl. D23—57.
Lax, Oscar, to The Bennington Co. Chair. 222,831, 1–11–72, Cl. D15—11.
Lax, Oscar, to The Bennington Co. Lounge chair. 222,832, 1–11–72, Cl. D15—11.

Lax, Oscar, to The Bennington Co. Dresser. 222,888, 1–25–72, Cl. D33—6.
Layton, Howard M., to Interlab, Inc. Multi-stage micro-circuit cleaning station. 223,470, 4–18–72, Cl. D49—11.
La Zar, Ralph M.: *See*—
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La Zar, Ralph M., and W. B. Herbst. Kite. 225,350, 12–5–72, Cl. D34—15.
Lea, Melvin A., to Oneida Ltd. Spoon or similar article. 224,562, 8–1–72, Cl. D54—12.
Lea, Melvin A., to Oneida Ltd. Spoon or similar article. 224,563, 8–1–72, Cl. D54—12.
Lea, Melvin A., to Oneida Ltd. Spoon or similar article. 225,028, 10–31–72, Cl. D54—12.
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Learned, Addison W., III and R. C. 223,683.
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Leaver, Gardner, to Steelcase Inc. Table. 225,598, 12–26–72, Cl. D6—29.
Leda Cars Ltd.: *See*—
Terry, Leonard E. 223,542.
Lee, Allen. Eyeglasses or the like. 223,296, 4–4–72, Cl. D57—1.
Lee, Charles R. Font of type. 225,463, 12–12–72, Cl. D64—12.
Lee, Hue R. Multiple dwelling structure. 224,094, 7–4–72. Cl. D13—1.
Lee, Janice L. Writing paper or the like. 224,842, 9–26–72, Cl. D59—14.
Lee, Robert M. Bracelet. 224,257, 7–11–72, Cl. D45—7.
Lee, William, Jr. Frame for a baby crib. 224,822, 9–26–72, Cl. D5—5.
Legere, Alan E. Combined comb and cannister carrier. 223,736, 5–30–72, Cl. D86—10.
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Leigh Products, Inc.: *See*—
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Leitch, Alexander L., and A. Gable. Deck chair. 224,859, 10–3–72, Cl. D6—66.
Leitch, Alexander L., and A. Gable. Deck chair. 224,860, 10–3–72, Cl. D6—66.
Leman, Donald E., to Ampex Corp. Magnetic tape cassette transport. 224,315, 7–18–72, Cl. D26—14.
Le Marquand, Andre, to Catena Watch Co. S.A. Wrist watch. 223,272, 4–4–72, Cl. D42—8.
Lennox, Clarence R. Snow scooter. 223,715, 5–30–72, Cl. D34—15.
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Leone, Sal, to Louis Marx & Co., Inc. Toy vehicle. 225,550, 12–19–72, Cl. D34—15.
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Leopoldi, Norbert. Telephone rest. 224,543, 8–1–72. Cl. D26—14.
Leotta, Samuel S.: *See*—
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Lepoix, Louis L., to La Telephonie Industrielle et Commercials "Telic." Intercommunications set. 225,237, 11–28–72, Cl. D26—14.
LeRoue, Lloyd J. Combination hollow fish pole and reel housing. 224,400, 7–25–72, Cl. D22—23.
Lesch, Eugene H. Golf club. 224,418, 7–25–72, Cl. D34—5.
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Levin, Henry. Harp. 223,727, 5–30–72, Cl. D56—1.
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Levine, Linda E., and D. A. Zippel. Pillow. 224,993, 10–31–72, Cl. D3—9.
Levine, Linda E., and D. A. Zippel. Pillow. 225,392, 12–12–72, Cl. D3—9.
Levow, Lawrence, to Harman-Kardon Inc. Combined phonograph turntable, base, and cassette player or similar article. 225,457, 12–12–72, Cl. D56—4.
Levow, Lawrence, and C. Yurdin, to Acrodyne, Inc. Data-terminal. 222,883, 1–25–72, Cl. D26—5.
Lew, Wing G., assignor of a fractional part interest to Jack Bazz. Bubble level. 223,635, 5–16–72, Cl. D52—6.
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Lewis, Gerald F. Bookholder or similar article. 225,499–500, 12–19–72, Cl. D6—106.
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Li, Tony. Exercising weight. 223,843, 6–13–72, Cl. D34—5.
Libby, Erin, and J. H. Christopher, to Mattel, Inc. Figure toy. 222,867, 1–18–72, Cl. D34—4.
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Liberman, Milton. Electrical connector. 223,921, 6–20–72, Cl. D26—1.
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Specht, Paul B. 223,474.
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Lichnecker, Harold A. Support for reinforcing rod. 233,803, 6–13–72, Cl. D8—228.
Liddle, David E., and G. W. Lambroff, to Owens-Illinois. Cabinet for message display panel. 224,947, 10–17–72, Cl. D96—12.
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Lim, Enghua, to Monsanto Co. Monolithic light emitting semiconductor display. 224,835, 9–26–72, Cl. D26—5.
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Jewell, Donald K. 224,586.
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Lindgren, Wallace I. Tool handle structure. 223,333, 4–11–72, Cl. D8—83.
Lindley, Donald C., W. W. Kinzie, and G. L. Runyan, to Rotec, Inc. Pallet. 225,397, 12–12–72, Cl. D14—3.
Lindner, William R. Housing for a clock. 225,427, 12–12–72, Cl. D42—7.
Lindstrom, Karl H., to Aktiebolaget Electrolux. Vacuum cleaner. 223,773, 6–6–72, Cl. D49—14.
Linford, Amasa M.: *See*—
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De Baschmakoff, Francois. 225,428.
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McCaul, James F., III, to Schokbeton Products Corp. Building frame. 224,292, 7–18–72, Cl. D13—1.
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Padleckas, Henry, and L. Paulius. Combination lock. 223,228, 4–4–72, Cl. D8—114.
Page, Leonard, to Dynamic Learning Media, Inc. Finding for a brooch or the like. 223,280, 4–4–72, Cl. D45—19.
Palazzolo, Thomas P. Game board. 223,939, 6–20–72, Cl. D34—5.
Palen, Loren B., Jr.: *See*—
Stormer, Henry E., and Palen. 223,447.
Palson, Richard C. J., to P.X. Industries, Inc. Cabinet knob. 222,873, 1–25–72, Cl. D8—145.
Palson, Richard C. J., assignor to Biozonics Corp and F. A. Ravreby, fractional part interest to each. Aquarium siphon. 223,110, 3–14–72, Cl. D30—12.
Palumbo, Caludio, to Phono-Sonic Radio Corp. Combined beverage cart and housing for an audio unit. 225,149, 11–21–72, Cl. D6—46.

Palumbo, William J., to Mel-Mar Industries, Inc. Camper trailer. 223,751, 6–6–72, Cl. D14—3.
Pan-Wal Mechanical Services Ltd. : *See*—
Pankiw, Fred. 225,623.
Pankiw, Fred, to Pan-Wal Mechanical Services Ltd. Shopping cart. 225,623, 12–26–72, Cl. D14—3.
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Ambrose, Paul E. 223,330.
Panzica, Anton J. : *See*—
Fritz, Albert J., and Panzica. 223,980.
Papavasiliou, Elaine J., to Symbologics, Inc. Medallion. 225,652, 12–26–72, Cl. D29—19.
Papst, Georg F. Cassette tape recorder. 225,236, 11–28–72, Cl. D26—14.
Pareja, Ramon : *See*—
Sadler, Harry J., and Pareja. 223,686.
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Parker Pen Co., The : *See*—
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Parpaiola, Danilo, and G. Callegaro. Lacing hook. 224,584, 8–8–72, Cl. D2—418.
Parry, Frank, and D. M. Savio, to Branson Instruments, Inc. Ultrasonic seaming apparatus. 225,110, 11–14–72, Cl. D26—1.
Parsons, John R. Illuminating toy. 223,941, 6–20–72, Cl. D34—15.
Patrick, Earnest H. Air conditioner for vehicles. 223,761, 6–6–72, Cl. D23—142.
Patton, George T., Jr., to Textron Inc. Headset earpiece. 223,927, 6–20–72, Cl. D26—14.
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Waddle, Thirl W., Wood, and Jackson. 224,242.
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Paulson, Maurice G., T. Kelleher, M. L. Price, and M. L. Levin, to Lambda Electronics Corp. Power supply. 223,932, 6–20–72, Cl. D26—15.
Pavenick, Stanford. Illuminable rotatable double-faced mirror. 225,475, 12–12–72, Cl. D86—10.
Pavenick, Stanford. Illuminable rotatable double-faced mirror. 225,476, 12–12–72, Cl. D86—10.
Pawsat, Carlton P. : *See*—
Humlong, Robert F., and Pawsat. 223,075.
Pawsat, Carlton P., to Wald Mfg. Co., Inc. Reflective bicycle pedal. 223,554, 5–2–72, Cl. D90—14.
Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,466, 7–25–72, Cl. D90—9.
Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,474, 7–25–72, Cl. D90—9.
Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,475, 7–25–72, Cl. 90—9.
Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,476, 7–25–72, Cl. D90—9.
Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,477, 7–25–72, Cl. D90—9.
Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,478, 7–25–72, Cl. D90—9.
Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Reflective bicycle handlebar. 223,072, 3–7–72, Cl. D90—11.
Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Reflective bicycle pedal. 223,073. 3–7–72, Cl. D90—14.
Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Reflective bicycle pedal. 223,074, 3–7–72, Cl. D90—14.
Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Handlebar. 224,696, 8–29–72, Cl. D90—11.
Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Bicycle handlebar. 224,697, 8–29–72, Cl. D90—11.
Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Bicycle Handlebar. 224,698, 8–29–72, Cl. D90—11.
Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Bicycle handlebar. 224,699, 8–29–72, Cl. D90—11.
Pearl, David L., J. G. Waller, and B. P. Head, Jr., to W. R. Grace & Co. Egg carton. 224,518, 8–1–72, Cl. D9—190.
Pearl, Morton S. Book support or the like. 223,370, 4–11–72, Cl. D33—2.
Peasley, Curtiss M. Wireless lighting fixture. 225,370, 12–5–72, Cl. D48—24.
Pedlar People Ltd., The : *See*—
Van Ryn, Joop M. 224,506.
Peets, Robert S., to The Singer Co. Combined carrying case, accessory tray and lid for a sewing machine or similar article. 225,091, 11–7–72, Cl. D87—1.
Pelensky, Walter J. Stringed musical instrument. 222,954, 2–8–72, Cl. D56—1.
Pelensky, Walter J. Stringed musical instrument specifically a Ukrainian bandurka. 223,214, 3–28–72, Cl. D56—1.
Pelensky, Walter J. Stringed musical instrument. 224,564, 8–1–72, Cl. D56—1.
Pelensky, Walter J. Stringed musical instrument. 224,565, 8–1–72, Cl. D56—1.
Pelensky, Walter J. Stringed musical instrument. 224,566, 8–1–72, Cl. D56—1.
Pelensky, Walter J. Stringed musical instrument. 224,567, 8–1–72, Cl. D56—1.
Pelosi, Michael M., Jr. Ceiling panel. 224,896, 10–3–72, Cl. D48—16.
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Lauer, Donald G., Woodring, and Rinaldi. 224,308.
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Pennwalt Corp. : *See*—
Gardella, John M., Ciavattoni, and Hoyt. 224,536.
Gardella, John M., Ciavattoni, and Hoyt. 224,617.
Gardella, John M., Ciavattoni, and Hoyt. 224,618.
Gardella, John M., Ciavattoni, and Hoyt. 224,619.
Gardella, John M., Ciavattoni, and Hoyt. 224,620.
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Lluch, Alberto P. 223,437.
Lluch, Alberto P. 223,438.
Perkins, George, to American Telecommunications Corp. Desk telephone. 224,911, 10–10–72, Cl. D26—14.
Perlman, Richard J., to JMR Enterprises, Inc. Sitz bath. 223,831, 6–13–72, Cl. D23—51.
Perno, Howard V. Lounge chair. 225,289, 12–5–72, Cl. D6—37.
Perry, Frank R., to Oneida Ltd. Spoon or similar article. 222,924, 2–1–72, Cl. D54—12.
Perry, Frank R., to Oneida Ltd. Spoon or similar article. 224,266, 7–11–72, Cl. D54—12.
Perry, Frank R., to Oneida Ltd. Spoon or similar article. 225,030, 10–31–72, Cl. D54—12.
Perry, Frank R., to Oneida Ltd. Spoon. 225,456, 12–12–72, Cl. D54—12.
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Straus, Albert E. 223,735.
Perry, Roger L., to The Gillette Co. Single blade unit for a safety razor. 224,479, 7–25–72, Cl. D95—3.
Perry, Roger L. to The Gillette Co. Safety razor blade assembly. 225,137, 11–14–72, Cl. D95—3.
Persinger, Laverne O., assignor of a fractional part interest to M. L. Persinger. Anchor for boats, 233,551, 5–2–72, Cl. D71—1.
Persinger, Laverne O., assignor of a fractional part interest to M. L. Persinger. Pivoted housing for an anchor. 223,595, 5–9–72, Cl. D71—1.
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Persinger, Laverne O. 223,551.
Persinger, Laverne O. 223,595.
Persson, Karl, to Bila Cup AB. Cup. 225,076, 11–7–72, Cl. D44—9.
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Dittman, David T. 223,189.
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Peterson, Carl A. : *See*—
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Peterson, Edward W., to Silverline, Inc. Boat upper shell. 225,281, 11–28–72, Cl. D71—1.
Peterson, James T., to Mohasco Industries, Inc. Pillow display stand. 223,064, 3–7–72, Cl. D80—9.
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Petrillo, Richard J., to The Gillette Co. Combined packaging and dispensing tray for razor blade cartridges. 224,997, 10–31–72, Cl. D9—187.
Petrucelli, Jilio J. Signal light. 223,967, 6–20–72, Cl. D72—1.
Pettavel, Jacques, to Societe Genevoise d'Instruments de Physique. High precision measuring machine. 223,174, 3–21–72, Cl. D55—1.
Pettengill, Floyd E., to Anchor Hocking Corp. Bottle or similar article. 224,777, 9–19–72, Cl. D9—119.
Pettibon, Burl R. Precision cervical vetebrae adjusting instrument. 223,419, 4–11–72, Cl. D83—1.
Peynet, Georges L. J. Copying machine. 224,664, 8–22–72, Cl. D61—1.
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Pflueger, Albert, Jr., and E. R. Lewis, Jr. Molded plastic boat. 223,520, 4–25–72, Cl. D71—1.
Pharris, John A., and A. A. Mlachnik, to EZ Paintr Corp. Paint brush handle. 223,017, 2–29–72, Cl. D4—38.
Pharris, John A., and A. A. Mlachnik, to EZ Paintr Corp. Paint brush handle. 223,018, 2–29–72, Cl. D4—38.
Phillips, Cecil E., and F. M. Bennett, to Saf-Pla Corp. Tape and bandage cutter. 223,786, 6–6–72, Cl. D83—12.
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Pickel, Conrad L. Building block. 223,571, 5–9–72, Cl. D18—2.
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Piegza, Henry J., to Welding and Steel Fabrication Co., Inc. Inspection pressure vessel. 223,961, 6–20–72, Cl. D55—1.
Pierce, Larry L. Route holder or similar article. 225,042, 10–31–72, Cl. D96—9.
Pierson, Raymond G., Jr., and C. L. Voytko, to Hestrom Co. Infant's dressing table. 225,601, 12–26–72, Cl. D6—177.
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Pike, Maurice M. Nut cracker. 222,980, 2–15–72, Cl. D44—1.
Piker, Herbert M., and O. C. Borum. Boat. 223,219, 3–28–72, Cl. D71—1.
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Hopkins, Patrick B. 224,008.
Pilgrim, William, to Welch Allyn, Inc. Handle for medical diagnostic instruments. 225,584, 12–19–72, Cl. D83—12.
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Plummer, James E., to Owens-Illinois, Inc. Bottle. 223,083, 3–7–72, Cl. D9—113.
Pohl, Harold J., and N. J. Diederich, to Kellwood Co. Tent. 224,761, 9–12–72, Cl. D88—3.
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Polk, Edgwin R., S. Polansky, and L. Mirando, to Packaging Associates, Inc. Header for a body-fluid drainage bag. 223,479, 4–18–72, Cl. D83—1.
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Pommert, Robert C., to Flexalite Corp. Cooling fan. 225,530, 12–19–72, Cl. D23—165.
Pomper, William R. Razor or similar article. 223,741, 5–30–72, Cl. D95—3.
Poon, Yuen S. Link chain for a bracelet or similar article. 224,602, 8–8–72, Cl. D45—4.
Poon, Yuen S., to Yuen Sang Hardware Co., Ltd. Link chain for a bracelet or similar article. 224,981, 10–24–72, Cl. D45—4.
Poon, Yuen S., to Yuen Sang Hardware Co., Ltd. Link chain for a bracelet or similar article. 225,256, 11–28–72, Cl. D45—4.
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Pope, William K., to Uniroyal, Inc. Pneumatic tire. 224,181, 7–4–72, Cl. D90—20.
Popp, Lester G. Combined frame and basket for joining two bicycles. 224,817, 9–19–72, Cl. D90—8.
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Posca, Jorge E. Machine for centrifugally casting dental materials. 222,803, 1–4–72, Cl. D24—1.
Posner, David W., to Childhood Promotions, Inc. Toy model airplane. 224,660, 8–22–72, Cl. D34—15.
Potsdam, Jay A., to Gemini Marine, Inc. Boat deck. 225,576, 12–19–72, Cl. D71—1.
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Prehn, Fenton W. Die release for a shellfish meat pattie mold. 224,335, 7–18–72, Cl. D44—1.
Pressman, Lynn. Threading block toy. 225,658, 12–26–72, Cl. D34—15.
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Price, Alfred M., to The Quaker Oats Co. Waffle cooking plate. 223,007, 2–22–72, Cl. D44—1.
Price, Gerald L. Holder for food bowl for pets. 225,388, 12–5–72, Cl. D87—1.
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Eisele, Charles W. 223,666.
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Price, John F., and L. L. Johnson, to Everwear Park & Playground Equipment, Inc. Playground climber or the like. 224,796, 9–19–72, Cl. D34—5.
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Price, Russell L. Snowmobile accessory carrier. 224,280, 7–11–72, Cl. D87—1.
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Propst, Robert L., and J. O. Kelley, to Herman Miller Inc. Drawer for a cabinet or similar article. 224,730, 9–12–72, Cl. D6—191.
Propst, Robert L., and J. O. Kelley, to Herman Miller Inc. Tray. 224,751, 9–12–72, Cl. D44—10.
Proteau, Leandre. Vehicle signal lamp or the like. 222,891, 1–25–72, Cl. D48—32.
Pruitt, Forrest W. Golf practice mat. 225,242, 11–28–72, Cl. D34—5.
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Pulos, Arthur J., to Welch Allyn, Inc. Otoscope. 222,925, 2–1–72, Cl. D57—1.
Pulos, Arthur J., to Welch Allyn, Inc. Handle for medical diagnostic instruments. 225,691, 12–26–72, Cl. D83—12.
Purcell, James B., to Komark Inc. Combined bottle and support clip therefor. 223,102, 3–14–72, Cl. D9—10.
Purdy, Frederick E., to AMF Inc. Cycle seat. 225,484, 12–12–72, Cl. D90—16.
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Quenot, Andre, to Manufacture Quenot Mabo. Plumb line. 225,174, 11–21–72, Cl. D52—1.
Quinn, Peter T., to Honeywell Inc. Micro fiche reader. 223,780, 6–6–72, Cl. D61—1.
Quinn, Peter T., to Honeywell Inc. Camera flash attachment. 224,055, 6–27–72, Cl. D61—1.
Quistgaard, Jens H., to Dansk Designs Ltd. Drinking glass or the like. 225,253, 11–28–72, Cl. D36—8.
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Raab, David, and S. Goldstein. Ring. 223,545, 5–2–72, Cl. D45—10.
Racca, Richard F., A. E. Di Maio, and W. Swier. Dispensing unit for solidifiable liquid finishing materials or similar article. 223,510, 4–25–72, Cl. D52—2.
Rachman, Isadore B., to Metal Dynamics Corp. Illuminated wand. 225,378, 12–5–72, Cl. D72—1.
Raczak, Earl F., to Bio/Data Corp. Automatic pipette. 224,102, 7–4–72, Cl. D16—2.
Rae, Ronald L., to Fort Howard Paper Co. Paper toweling. 224,917, 10–10–72, Cl. D59—2.
Rae, Ronald L. Paper toweling. 224,918, 10–10–72, Cl. D59—2.
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Burke, George K., and Raines. 225,468.
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Rams, Dieter, to Braun Aktiengesellschaft. Bathroom scale. 224,443, 7–25–72, D52—10.
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Rams, Dieter, to Braun A.G. Lighters. 225,448, 12–12–72, Cl. D48—27.
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Rams, Dieter, to Braun A.G. Table cigarette lighter. 223,283, 4–4–72, Cl. D48—27.
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Rams, Dieter, to Braun A.G. Table lighter. 223,392, 4–11–72, Cl. D48—27.
Rams, Dieter, to Braun A.G. Table cigarette lighter. 223,393, 4–11–72, Cl. D48—27.
Rams, Dieter, to Braun Aktiengesellschaft. Table lighter. 225,264, 11–28–72, Cl. D48—27.
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Hill, Frederick M. 225,453.
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Raphael, Peter I. Ridable bouncing toy. 223,675, 5–23–72, Cl. D34—15.
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Raynor, Terence R., and P. S. Smith, to AMP Inc. Screw unit. 224,507, 8–1–72, D8—267.
Raynor, Terence R., and P. S. Smith, to AMP Inc. Screw. 224,881, 10–3–72, Cl. D8—267.
Raynor, Terence R., and P. S. Smith, to AMP Inc. Screw. 225,209, 11–28–72, Cl. D8—267.
Reaves, Ransom. Bookcase. 224,196, 7–11–72, Cl. D6—148.
Reay, Charles P. Game box. 223,713, 5–30–72, Cl. D34—5.
Rebel Boat Co., Inc.: *See*—
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Rees, William H., and N. Solomon, to National Steel Corp. Tread plate. 223,565, 5–9–72, Cl. D13—1.
Reese, James D. Head for a tiki torch. 224,805, 9–19–72, Cl. D48—24.
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Reese, James D. Head for a gas tiki torch. 225,674, 12–26–72, Cl. D48—24.
Reagan, Richard D., to Corning Glass Works. Broiler reflector or the like. 224,920, 10–10–72, Cl. D81—10.
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Reid, Philip L., to W. R. Grace & Co. Positioner for poultry products and the like. 225,156, 11–21–72, Cl. D11—1.
Reid, Philip L., to W. R. Grace & Co. Positioner for poultry products and the like. 225,157, 11–21–72, Cl. D11—1.
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Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 223,654, 5–23–72, Cl. D9—219.
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Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 225,514, 12–19–72, Cl. D9—219.
Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 225,515, 12–19–72, Cl. D9—219.
Reilly, Robert G. T. Combined gearshift lever and housing for automobiles. 224,004, 6–27–72, Cl. D14—6.
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Reineman, Richard G., and G. E. Schaefer, to The Brunswick Corp. Bowling ball return rack with provision for bowler identification panel. 224,420, 7–25–72, Cl. D34—5.
Reineman, Richard G., and G. E. Schaefer, to The Brunswick Corp. In-line bowling ball return rack. 224,421, 7–25–72, Cl. D34—5.
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Rice, John D. Chair. 225,496, 12–19–72, Cl. D6—71.
Richards, Paul E., to Promar International, Inc. Omni-directional loudspeaker enclosure. 223,580, 5–9–72, Cl. D26—14.
Richardson, Benjamin F., to Aeropro Enterprises, Inc. Helicopter kite. 225,422, 12–12–72, Cl. D34—15.
Richardson, Daniel E., to Shure Mfg. Corp. Combined service counter and cabinet unit. 224,490, 8–1–72, Cl. D6—159.
Richardson, Daniel E., to Shure Mfg. Corp. Combined counter and cabinet unit. 224,769, 9–19–72, Cl. D6—159.
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Richmond, Colin B., II, to Oneida Ltd. Spoon or similar article. 225,271, 11–28–72, Cl. D54—12.
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Roberson, Theodore L. Poker game board. 223,845, 6–13–72, Cl. D34—95.
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Saternus, Joseph P., to Borg-Warner Corp. Intravenous rod holder. 223,970, 6–20–72, Cl. D83—1.
Sato, Norio, and M. Nagano. Speed change gear for bicycles. 222,820, 1–4–72, Cl. D90—17.
Sato, Norio, and T. Ishida. Speed change gear for bicycle. 223,555, 5–2–72, Cl. D90—17.
Sato, Stephens N., to Ivac Corp. Fluid delivery apparatus. 222,956, 2–8–72, Cl. D83—1.
Sato, Stephens N., to Ivac Corp. Fluid delivery apparatus. 222,957, 2–8–72, Cl. D83—1.
Sato, Stephens N., to Ivac Corp. Temperature probe. 223,050, 3–7–72, Cl. D52—7.
Sato, Stephens N., to Ivac Corp. Battery charger. 223,999, 3–7–72, Cl. D26—15.
Sato, Stephens N., to Ivac Corp. Oxygen monitor. 224,813, 9–19–72, Cl. D83—1.
Sato, Stephens N., to Ivac Corp. Oxygen monitor. 224,814, 9–19–72, Cl. D83—1.
Sato, Stephens N., to Ivac Corp. Oxygen sensor. 224,987, 10–24–72, Cl. D83—1.
Satoh, Yasuta. Game board. 225,540, 12–19–72, Cl. D34—5.
Satoh, Yasuta. Toy truck crane. 225,659, 12–26–72, Cl. D34—15.
Satoh, Yasuta. Toy shovel loader. 225,660, 12–26–72, Cl. D34—15.
Satterfield, Rigsby C., to Eaton Yale & Towne Inc. Industrial vehicle. 222,857, 1–18–72, Cl. D14—3.
Satterfield, Rigsby C., to Eaton Yale & Towne Inc. Towing vehicle. 223,191, 3–28–72, Cl. D14—3.
Saunders, William T., to National Steel Corp. End closure for a container. 224,962, 10–24–72, Cl. D9—255.
Saunders, William T., to National Steel Corp. End closure for a container. 224,963, 10–24–72, Cl. D9—255.
Saunders, William T., to National Steel Corp. Tab opener for a container. 224,964, 10–24–72, Cl. D9—256.
Sauritis, Irene. Clip-on pacifier, partly retractible. D225,039, 10–31–72, Cl. D83—8.
Savio, Dino M.: *See*—
Parry, Frank, and Savio. 225,110.
Sawasky, Herbert. Portable shoulder supported motion picture camera. 222,926, 2–1–72, Cl. D61—1.
Sayers, Russell N., and C. W. Roberts, to The Goodyear Tire & Rubber Co. Tire 225,136, 11–14–72, Cl. D90—20.
Sayre, Van Vechten, H. R. Kirkpatrick, and H. Zelenko, to International Flavors & Fragrances Inc. Toothpaste tube. 224,998, 10–31–72, Cl. D9—194.
Scampoli, Anthony. Dancing figure toy. 225,122, 11–14–72, Cl. D34—15.
Scanthin Electronics, Inc.: *See*—
Shimano, Moto, Zierhut, and Ishimaru. 223,362.
Shimano, Moto, Zierhut, and Ishimaru. 223,429.
Scaretti, Lorenzo. Buckle. 224,901, 10–10–72, Cl. D2—420.
Schaaf, Robert: *See*—
Howard, Sol, and Schaaf. 223,173.
Schaefer, George E.: *See*—
Reineman, Richard G., and Schaefer. 224,387.
Reineman, Richard G., and Schaefer. 224,420.
Reineman, Richard G., and Schaefer. 224,421.
Schaefer, George E.: *See*—
Reineman, Richard G., and Schaefer. 225,244.
Schaefer, George E., to The Brunswick Corp. Cluster bowling ball return rack. 224,419, 7–25–72, Cl. D34—5.
Schaefer, George E., to The Brunskick Corp. Cluster bowling ball return adapted to receive a bowler identification panel. 225,341, 12–5–72, Cl. D34—5.
Schaefer, George E., and R. G. Reineman, to The Brunswick Corp. Hood for covered surface bowling ball return. 225,340, 12–5–72, Cl. D34—5.
Schaefer, Hermann R. Electric dry shaver. 225,386, 12–5–72, Cl. D95—3.
Schaefer, Howard A., to Anchor Hocking Corp. Fluted plano-aspheric lens. 224,040, 6–27–72, Cl. D48—32.
Schaefer, Howard A., to Anchor Hocking Corp. Fluted plano-aspheric lens. 225,371, 12–5–72, Cl. D48—32.
Schaefer, Howard A., to Anchor Hocking Corp. Fluted plano-aspheric lens. 225,450, 12–12–72, Cl. D48—32.
Schaefer, Harold W.: *See*—
Hohulin, Samuel E., and Schaefer. 223,509
Schafer, Harold, to Gold Seal Co. Bottle. 225,155, 11–21–72, Cl. D9—143.

Schafler, Alberto B. Cone cap. 225,391, 12–12–72, Cl. D2—250.
Scharfenberger, James A., and J. R. Snyder, to Lansburg Electro-Coating Corp. Coating material sheath for a spray coating apparatus. 225,107, 11–14–72, Cl. D23—36.
Schaus, Carl F., to Honeywell Information Systems Inc. Panel for use on electronic equipment cabinets or the like. 224,-314, 7–18–72, Cl. D26—5.
Schauweker, George H., to American Optical Corp. Flexible goggles. 223,983, 6–27–72, Cl. D2—234.
Schell, Thomas E. Skate board. 224,424, 7–25–72. Cl. D34—15.
Schenker, Eugenia. Lady's slipper or similar article. 224,185, 7–11–72, Cl. D2—283.
Scherer, Nancy A., to Cannon Mills Co. Towel or similar article. 223,321, 4–4–72, Cl. D92—26.
Scherer, Nancy A., to Cannon Mills Co. Towel or similar article. 223,322, 4–4–72, Cl. D92—26.
Scherer, Nancy A., to Cannon Mills Co. Sheet or similar article of bed linen. 223,324, 4–4–72, Cl. D92—26.
Scherer, Nancy A., to Cannon Mills Co. Sheet or similar article of bed linen. 224,500, 8–1–72, Cl. D6—264.
Scherer, Nancy A., to Cannon Mills Co. Towel or similar article. 224,503, 8–1–72, Cl. D6—265.
Scheuring, George R.: *See*—
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Schieser, Warren J., and J. C. Marsh, to The Corrugated Container Co. Liquid container. 224,616, 8–15–72, Cl. D9—175.
Schieser, Warren J., and J. C. Marsh, to The Corrugated Container Co. Liquid container. 224,639, 8–22–72, Cl. D9—175.
Schifrin, Arthur. Combined spot light and plug therefor. 223,389, 4–11–72, Cl. D48—20.
Schildknecht, Mary J. Door covering. 224,780, 9–19–72, Cl. D13—1.
Schildknecht, Mary J. Broom cover. 224,949, 10–24–72, Cl. D4—4.
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Tornoe, John A.,and Marotto. 225,047.
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Garfinkle, Marvin E., Schmeck, and Tangard. 223,009.
Schmeck, Robert E., and E. W. Tangard, to Pitney-Bowes, Inc. Postage meter. 224,666, 8–22–72, Cl. D64—11.
Schmersal, Larry J., and G. E. Wojcik, to Owens-Illinois, Inc. Combined light emitting gas discharge matrix display panel and connecting cables. 224,231, 7–11–72, Cl. D26—5.
Schmid, Carl F., to Turtle Wax, Inc. Closure cap for a container. 225,620, 12–26–72, Cl. D9—261.
Schmidt, Arthur W., to Zenith Radio Corp. Paging receiver housing. 223,835, 6–13–72, Cl. D26—14.
Schmidt, Clarence E. Dialyzing unit. 224,172, 7–4–72, Cl. D83—1.
Schmitt, Charles H.: *See*—
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Schmitt, Robert T. Combined fireplace grate and log holder. 225,637, 12–26–72, Cl. D23—98.
Schmitz, Raymond J., and J. F. Sellers, Jr., to Motorola, Inc. Cabinet housing for side-loading tape player or similar article. 224,713, 9–5–72, Cl. D26—14.
Schmuck, Frederic E.: *See*—
Schoepe, Adolf, and Schmuck. 223,450.
Schneider, Helmut B. Bobsled. 224,688, 8–29–72, Cl. D34—15.
Schneider, Irwin, to Imperial Arts Corp. Knife or similar article of flatware. 225,694, 12–26–72, Cl. D95—3.
Schnur, Martin, and M. Appel, to Magic Marker Corp. Pen casing. 223,688, 5–23–72, Cl. D74—17.
Schoenfeld, Alexander N., to Trans World Display Corp. Combined display and box dispensing unit. 223,291, 4–4–72, Cl. D52—2.
Schoepe, Adolf, and F. E. Schmuck. Horizontal inlet ball cock. 223,450. 4–18–72, Cl. D23—40.
Schokbeton Products Corp.: *See*—
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Schrager, Milton: *See*—
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Schramm, Buford J., to Rotoway, Inc. Cabin for a helicopter. 224,984, 10–24–72, Cl. D71—1.
Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Bicycle frame. 223,071, 3–7–72, Cl. D90—8.
Schroeder, Peter, to Gardisette International AG. Fabric for use in curtains. 225,384, 12–5–72, Cl. D92—1.
Schubert, Ralph E., and A. Bally, to CGR Medical Corp. Work desk or similar article for use in a hospital or the like. 222,977, 2–15–72, Cl. D33—907.
Schuler, Ralf, and U. Witte, to Paul M. Buenger. Building construction unit. 224,930, 10–17–72. Cl. D13—1.
Schuler, Ralf, and U. Witte, to Paul M. Buenger. Combined kitchen-bath and wall unit. 224,932, 10–17–72, Cl. D23—50.
Schuler, Ralf, and U. Witte, to Paul M. Buenger. Building construction unit. 229,929, 10–17–72, Cl. D13—1.
Schumann, Robert W., to W. R. Grace & Co. Combined mold and packing tray for a confection. 225,516, 12–19–72, Cl. D9—240.
Schwartz, Edwin L., to Rite Autoronics Corp. Vehicle instrument gauge. 223,404, 4–11–72, Cl. D52—6.
Schwartz, Howard L., to United Inns Mfg. Corp. Motel office building. 224,294, 7–18–72, Cl. D13—1.
Schwartz, Richard S., to Thomas & Betts Corp. Bundling strap. 222,878, 1–25–72, Cl. D9—252.
Schwartz, Werner W., to U.S. Industries, Inc. Pinking shears. 225,608, 12–26–72, Cl. D8—57.
Schwarz, Milton: *See*—
Dean, Jan, and Schwarz. 223,884.
Schwinn Bicycle Co.: *See*—
Fritz, Albert J., and Panzica. 223,980.
Sciarrino, Leonard, and J. Di Natale. Animal grooming table. 222,836, 1–11–72, Cl. D33—14.
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Martuch, Leon L. 223,792.
Scire, William M. Hockey souvenir. 224,119, 7–4–72, Cl. D29—28.
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Scott, David E.: *See*—
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Seager, Richard H., to General Electric Co. Portable tape player. 224,323, 7–18–72, Cl. D26—14.
Seals, Bob J. Vehicle tire carrier actuating lever. 223,753, 6–6–72, Cl. D14—6.
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Searcy, Anne M., to Handy Anne, Inc. Support rack for tools and small articles. 222,913, 2–1–72, Cl. D33—3.
Sears, Kenneth D. Flexible bag for liquid storage. 224,961, 10–24–72, Cl. D9—182.
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Seidler, David. False eyelash holder. 223,787, 6–6–72, Cl. D87—1.
Seiffert, Florian, to Braun A.G. Combined coffee mill and grinder. 223,425, 4–11–72, Cl. D89—1.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,388, 4–11–72, Cl. D48—20.
Selden, Robert W. Light standard or similar article. 223,395, 4–11–72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,396, 4–11–72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,397, 4–11–72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,398, 4–11–72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,399, 4–11–72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,400, 4–11–72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,632, 5–16–72, Cl. D48—931.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,633, 5–16–72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 224,039, 6–27–72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 224,558, 8–1–72, Cl. D48—31.
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Senda, Yasuo, and S. Negami, to The Oriental Trading Co., Ltd. Binoculars. 223,298, 4–4–72, Cl. D57—1.
Sensors, Inc.: *See*—
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Sexton, Edward, to The Third Eye, Inc. Lamp. 224,141, 7–4–72, Cl. D48—20.
Shabbarrasi, Anthony J. Keyboard for an electric organ or similar article. 225,274, 11–28–72, Cl. D56—1.
Shaeffer, Donald E., to Rimar Mfg., Inc. Corner bead. 223,-901, 6–20–72, Cl. D13—1.
Shalhut, Leo G., to K-S-H, Inc. Lens panel. 223,386, 4–11–72, Cl. D48—16.
Shalvoy, John C., to General Electric Co. Illuminable make-up mirror or similar article. 223,883, 6–13–72, Cl. 86—10.
Shaper, Roger T., and J. E. Germann, to Metal Window-Products, Inc. Barbecue cooker. 223,642, 5–16–72, Cl. D81—10.
Sharer, Wesley E., to Playskool, Inc. Combined peg and magnetic chalk board. 222,882, 1–25–72, Cl. D25—1.
Sharer, Wesley E., to Playskool, Inc. Toy dump truck. 223,034, 2–29–72, Cl. D34—15.
Sharp, Clellmont L. Container for chlorine pellets or the like. 223,356, 4–11–72, Cl. D23—2.

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Shaw, Frank D. Emergency lighting unit. 223,855, 6–13–72, Cl. D48—20.
Shaw, George, to Wire World, Inc. Storage rack for toilet tissue or the like. 224,613, 8–15–72, Cl. D6—97.
Shaw, George, to Wire World, Inc. Storage rack for toilet tissue or the like. 224,614, 8–15–72, Cl. D6—97.
Shepard, John R. Smoking pipe. 223,181, 3–21–72, Cl. D85—8.
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Shield, Richard L., to Mattel, Inc. Accessory for spinning toy or the like. 223,541, 5–2–72, Cl. D34—15.
Shifley, Ralph W., to Emerson Electric Co. Safety switch toggle. 225,651, 12–26–72, Cl. D26—13.
Shiman, Leonard, to Shiman Manufacturing Co., Inc. Finger ring. 225,018, 10–31–72, Cl. D45—10.
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Shimano, Moto, C. D. Zierhut, and L. Y. Ishimaru, to Scantlin Electronics, Inc. Cathode ray tube display housing. 223,429, 4–11–72, Cl. D96—9.
Shimoji, Shusuke, to Kabushiki Kaisha Tokyo Suehiro Sharyo Seisakusho. Roller-bed trailer. 223,818, 6–13–72, Cl. D14—3.
Shimosawa, Ron, to Kiku Co. Combined dining and cooking table. 223,179, 3–21–72, Cl. D81—10.
Shindler, Anthony, to American Optical Corp. Pair of Spectacles. 223,123, 3–14–72, Cl. D57—1.
Shinjo, Katsumi. Clinch nut. 223,532, 5–2–72, Cl. D8—274.
Shinjo, Katsumi. Locking nut. 223,747, 6–6–72, Cl. D8—274.
Shirley, Carl S. Rear projection viewer. 223,012, 2–22–72, Cl. D61—1.
Shirley, Carl S., to General Educational Technology Corp. Rear projection viewer. 223,013, 2–22–72, Cl. D61—1.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,942, 2–8–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,943, 2–8–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,944, 2–8–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,968, 2–15–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,969, 2–15–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,970, 2–15–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,971, 2–15–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,972, 2–15–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Deed switch envelope. 222,973, 2–15–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,974, 2–15–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,975, 2–15–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,976, 2–15–72, Cl. D26—13.
Shlesinger, Bernard E., Jr. Electric cable. 224,786, 9–19–72, Cl. D26—1.
Shlesinger, Bernard E., Jr. Electric cable. 224,787, 9–19–72, Cl. D26—1.
Shlesinger, Bernard E., Jr. Electric cable. 224,788, 9–19–72, Cl. D26—1.
Shlesinger, Bernard E., Jr. Electric cable. 224,789, 9–19–72, Cl. D26—1.
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Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,618, 5–16–72, Cl. D42—1.
Sicherman Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,619, 5–16–72, Cl. D42—1.
Sicherman, Sondra J., to Startime Watch Co., Inc., Combined dial and hands for a watch or the like. 223,620, 5–16–72, Cl. D42—1.
Sicherman, Sondra, to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,621, 5–16–72, Cl. D42—91.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,622, 5–16–72, Cl. D42—1.
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Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,625, 5–16–72, Cl. D42—1.
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Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,849, 6–13–72, Cl. D42—1.
Sicherman, Sondra J. Combined dial and hands for a watch or the like. 223,850, 6–13–72, Cl. D42—1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 224,432, 7–25–72, Cl. D42—1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 224,433, 7–25–72, Cl. D42—1.
Siebel, John E. Pressure unloader valve or the like. 222,802, 1–4–72, Cl. D23—19.
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Simpson, Alden H. Tent stake. 222,983, 2–15–72, Cl. D88—93.
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Sjoholm, Hans, to Telefonaktiebolaget LM Ericsson. Picture telephone. 223,672, 5–23–72, Cl. D26—14.
Skerl, Richard J., to The B. F. Goodrich Co. Tire. 224,579, 8–1–72, Cl. D90—20.
Skerl, Richard J., to The B. F. Goodrich Co. Tire. 224,580, 8–1–72, Cl. D90—20.
Skinner, James R., M. O. Uitz, and P. W. Hait, to F.J.L. Corp. Motion picture viewer. 225,181, 11–21–72, Cl. D61—1.
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Sklaroff, William B., to Litton Business Systems, Inc. Typewriter. 225,461, 12–12–72, Cl. D64—11.
Skupien, Frank. Bracket lamp or similar article. 225,259, 11–28–72, Cl. D48—4.

Slama, Klaus-Dieter, to Litton Business Systems, Inc. Adding machine. 223,964, 6–20–72, Cl. D64—11.
Smart, William L., and D. W. Woempner, to Ransburg Electro-Coating Corp. Spray gun. 223,491, 4–25–72, Cl. D23—17.
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Smith, Bruce W. Replaceable edge for power mower blades. 222,808, 1–4–72, Cl. D40—1.
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Wilkinson, Judkins E., and Smith. 223,042.
Smith, David B. Universal tripod. 223,638, 5–16–72, Cl. D61—1.
Smith, Donald E., and A. M. Linford. Storage rack for attachment to wall lockers or the like. 223,617, 5–16–72, Cl. D33—3.
Smith, Donald K. Fishing lure. 224,104, 7–4–72, Cl. D22—28.
Smith, Earl E., to Lexalite Corp. Electric outlet box cover plate. 222,885, 1–25–72, Cl. D26—13.
Smith, Eva N. Hair spray shield. 223,737, 5–30–72, Cl. D86—10.
Smith, Jay N., to Inpala Industries, Inc. Heater back pan. 224,891, 10–3–72, Cl. D23—127.
Smith, Jay N., to Impala Industries, Inc. Catalytic heater. 225,639, 12–26–72, Cl. D23—110.
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Smith, Kenneth A. Dispensing tray for plastic bags and the like. 223,403, 4–11–72, Cl. D52—2.
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Smith, Philip S.: *See*—
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Smith, Ralph G. Guitar body or similar article. 224,155, 7–4–72, Cl. D56—1.
Smith, Richard D. Gameboard. 223,846, 6–13–72, Cl. D34—5.
Smith, Richard D., and R. S. Du Bois. Safety hanger for tension springs. 224,958, 10–24–72, Cl. D8—263.
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Smith, Russell G., to Xomox Corp. Duplex strainer unit. 223,828, 6–13–72, Cl. D23—4.
Smith, Russell G., to Xomox Corp. Duplex strainer unit. 224,304, 7–18–72, Cl. D23—4.
Smith, Sidney Z., to The General Tire & Rubber Co. Water pitcher. 225,171, 11–21–72, Cl. D44—21.
Smith, Thomas R. Ceiling panel. 225,322, 12–5–72, Cl. D18—2.
Smith, Thomas R. Ceiling panel. 225,323, 12–5–72, Cl. D18—2.
Smithhart, Jack A., to Continental Steel Co. Carport. 225,051, 11–7–72, Cl. D13—1.
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Sours, William A., to Cogar Corp. Casing for an electronic data terminal. 224,597, 8–8–72, Cl. D26—5.
Sours, William A., to Cogar Corp. Tape cartridge. 223,027, 2–29–72, Cl. D26—14.
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Specht, Paul B., and A. N. Taylor, to Library Resources Inc. Portable microfiche viewer. 223,473, 4–18–72, Cl. D61—1.
Spencer, Clifford A., to Eaton Yale & Towne Inc. Golf club grip. 223,459, 4–18–72, Cl. D34—5.
Spencer, Clifford A., to Eaton Yale & Towne Inc. Golf club grip or similar article. 223,461, 4–18–72, Cl. D34—5.
Spencer, Clifford A., to Eaton Yale & Towne Inc. Golf club grip. 223,462, 4–18–72, Cl. D34—5.
Spencer, Vivian S. Cosmetic mirror. 224,176, 7–4–72, Cl. D86—10.
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Spiegel, Norman. Vehicular toy. 225,544, 12–19–72, Cl. D34—15.
Spies, Donald H. Combination engine muffler. 225,184, 11–21–72, Cl. D77—1.
Spiro, Lloyd W. Aircraft navigation light indicator. 223,631, 5–16–72, Cl. D48—32.
Spivey, Jefferson, assignor to Mark A. Brick and to said Spivey, a fractional part interest to each. Hunting knife. 224,399, 7–25–72, Cl. D22—1.
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Stahel, Alwin J., II, to General Foods Corp. Toy block. 224,425, 7–25–72, Cl. D34—15.
Stahl, Donald P., to Telecommunications Industries, Inc. Battery powered illuminating mirror. 223,568, 5–9–72, Cl. D14—6.
Stahl, Donald P., to Telecommunications Industries, Inc. Illuminable mirror. 224,459, 7–25–72, Cl. D86—10.
Stahl, Donald P., to Telecommunications Industries, Inc. Illuminable mirror. 225,585, 12–19–72, Cl. D86—10.
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Stahl, William J., to National Mfg. Co., Inc. Fishing rod holder. 223,259, 4–4–72, Cl. D33—17.
Stahl, William J., to National Mfg. Co., Inc. Fishing rod holder. 223,260, 4–4–72, Cl. D33—17.
Stahl, William J., to National Mfg. Co., Inc. Fishing rod holder. 223,261, 4–4–72, Cl. D33—17.
Stahl, William J., to National Mfg. Co., Inc. Fishing rod holder. 223,262, 4–4–72, Cl. D33—17.
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Stehouwer, Adrian W. Charcoal fire starter. 223,722, 5–30–72, Cl. D48—27.
Steidley, Roy B., to RDW Industries, Inc. Dispensing closure. 224,092, 7–4–72, Cl. D9—258.
Stein, Jacob. Finger ring. 225,442, 12–12–72, Cl. D45—10.
Stein, Karl A. Brush. 223,738, 5–30–72, Cl. D86—13.
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Steiner, Robert E., to Emerson Electric Co. Exhaust fan cover. 225,011, 10–31–72, Cl. D23—151.
Steinhart, Saul G. Arm chair. 223,756, 6–6–72, Cl. D15—1.
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Sterner, Russell L., to Walter Kiddle & Co., Inc. Boom section for a cantilevered crane boom. 224,980, 10–24–72, Cl. D41—1.
Stevenson, Bill E. Combined toothbrush holder and dispenser for toothpaste and paper cups. 224,863, 10–3–72, Cl. D6—92.
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Strassle, Alex. Chair with fluted seat and back rest surfaces. 224,190, 7–11–72, Cl. D6—65.
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Stravitz, David M. Wine bottle rack. 224,435, 7–25–72. Cl. D44—29.
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Strayer, Lawrence H., and K. W. Pratt, to Funtime Products, Inc. Toy film bursting cane. 225,542, 12–19–72, Cl. D34—15.
Strickland, Robert E. Combined information gathering and display unit. 224,537, 8–1–72, Cl. D25—1.
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Stuart, Robert B. Boat hull. 225,086, 11–7–72, Cl. D71—1.
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Summers, Marion K. Combined clock face and picture frame. 222,840, 1–11–72, Cl. D42—7.
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Swanson, Keith N. Photographic timer. 224,130, 7–4–72, Cl. D42—7.
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Taiman, Edward C., to Cannon Mills Co. Towel or similar article. 223,320, 4–4–72, Cl. D92—26.
Taiman, Edward C., to Cannon Mills Co. Sheet or similar article of bed linen. 223,323, 4–4–72, Cl. D92—26.
Taiyo Kogyo Co., Ltd.: *See*—
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Takagi, Nobuyoshi, and T. Hattori, to Nippondenso Kabushiki Kaisha. Power driven radio antenna for automobile. 223,603, 5–16–72, Cl. D14—6.
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Takahashi, Shiro, to Bridgestone Tire Co. Ltd. Vehicle tire. 224,818, 9–19–72, Cl. D90—20.
Takata, Denkichi, to Mamiya Koki Kabushiki Kaisha (a.k.a Mamiya Camera Co., Ltd.). Interchangeable camera lens. 223,215, 3–28–72, Cl. D61—1.
Takata, Denkichi, to Mamiya Koki Kabushiki Kaisha, a.k.a. Mimiya Camera Co., Ltd. Camera. 223,124, 3–14–72, Cl. D61—1.
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Tall, Nathan I. and K. I., to Kenco Products Corp. Beverage dispenser. 223,428, 4–11–72, Cl. D94—3.
Talman, John T., and W. C. Paddock, to TSI, Inc. Plastic film dispenser. 224,840, 9–26–72, Cl. D52—2.
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Tanaka, Teru. Tea infuser. 225,671, 12–26–72, Cl. D44—26.
Tanaka, Yoh, to Fuji Shashin Film Kabushiki Kaisha. Motion picture projector. 224,057, 6–27–72, Cl. D61—1.
Tanaka, Yoshihisa, to Tanaka Shoji Kabushiki Kaisha. Cigarette dispenser. 223,420, 4–11–72, Cl. D85—2.
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Tate, John R., and J. C. Pigg. Pistol grip for fishing rod. 225,528, 12–19–72, Cl. D22—23.
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Taylor, Bill E. Gameboard for parlor games. 223,115, 3–14–72, Cl. D34—5.
Taylor, Bill E. Gameboard for parlor games. 223,116, 3–14–72, Cl. D34—5.
Taylor, Charles P., to Southern Extrusions, Inc. Scaffold plank. 222,894. 1–25–72, Cl. D54—1.
Taylor, George F. Sheller for peas or the like. 224,179, 7–4–72, Cl. D89—91.
Taylor, James C. Gift package for golf accessories. 223,336, 4–11–72, Cl. D9—193.
Taylor, Johnnie D. Sidewalk scooter. 225,546, 12–19–72, Cl. D34—15.
Taylor, William D., to Rubbermaid Inc. Bath mat. 223,279, 4–4–72, Cl. D44—31.
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Tegner, Raymond U. H., to Amerock Corp. Towel ring. 224,770, 9–19–72, Cl. D33—32.
Tegner, Raymond U. H., to Amerock Corp. Towel. 224,771, 9–19–72, Cl. D6—99.
Tegner, Raymond U. H., to Amerock Corp. Escutcheon. 224,776, 9–19–72, Cl. D8—179.
Tegner, Raymond U. H., to Amerock Corp. Cabinet hardware. 225,302, 12–5–72, Cl. D8—166.
Tegner, Raymond U. H., to Amerock Corp. Pull. 225,303, 12–5–72, Cl. D8—174.
Tegner, Raymond U. H., to Amerock Corp. Door knocker. 225,304, 12–5–72, Cl. D8—177.
Tegner, Raymond U. H., to Amerock Corp. Wall plate. 225,305, 12–5–72, Cl. D8—179.
Teichmeier, Franklin J. Ratchet wrench with offset handle. 225,606, 12–26–72, Cl. D8—25.
Tejeda, Oscar G., and H. A. Shortway, to Congoleum Industries, Inc. Solid surface floor covering or similar article. 222,958, 2–8–72, Cl. D92—4.
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Thomas, Earl F. Foot platform for trucks. 225,160, 11–21–72, Cl. D14—6.
Thomas, Hudson. Anti-bounce control arm insert for automobile rear-end suspension systems. 223,024, 2–29–72, Cl. D14—6.
Thomas, Morton I. Reclining chair. 223,245, 4–4–72, Cl. D15—11.
Thompson, Frederick W., to Packard Instrument Co. Liquid scintillation spectrometer for determining radioactivity levels in test samples. 224,069, 6–27–72, Cl. D83—1.
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Thompson, Ronald A. Ring. 225,441, 12–12–72, Cl. D45—10.
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Thomson, Ernest F., to Lever Brothers Co. Bottle or similar article. 223,807, 6–13–72, Cl. D9—42.
Thornell, Ernest L., to Marlin Toy Products, Inc. Housing for a toy music box. 224,661, 8–22–72, Cl. D34—15.
Thrasher, Wilbert E. Dual plug cleaner. 225,257, 11–28–72, Cl. D49—11.
Thrush, James L., to Anchor Hocking Corp. Tumbler or similar article. 224,797, 9–19–72, Cl. D36—8.
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Tillinger, Edwin B. Turtle shell toy. 223,048, 3–7–72, Cl. D34—2.
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Tipton, Max E., to Seating Co. of America, Inc. Stadium seat or similar article. 224,955, 10–24–72, Cl. D15—8.
Tissot, Leon. Flower pot. 223,464, 4–13–72, Cl. D35—3.
Tixier, Michel, to Regie Nationale des Usines Renault. Automobile vehicle body. 223,190, 3–28–72, Cl. D14—3.
Tixier, Michel, to Regie Nationale des Usines Renault, and Automobiles Peugeot. Slider casing for safety belt. 224,283, 7–18–72, Cl. D2—408.
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Todeschini, Bruno. Telephone set or similar article. 224,542, 8–1–72, Cl. D26—14.
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Toffolon, Siro R., to International Silver Co. Spoon or similar article of flatware. 225,679, 12–26–72, Cl. D54—12.
Toiseux, Pierre M. J., to Ronson Corp. Warming stand. 225,669, 12–26–72, Cl. D44—10.
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Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 3,165, 5–9–72, Cl. 41.

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Albertson, Clarence E., Villa Park, Ill. Dedication filed May 24, 1972, by the assignee, Borg-Warner Corporation. No. 3,471,384 ; v. 901 ; p. 775.

Allen, Herbert, Houston, Tex. Disclaimer filed Apr. 12, 1972, by the assignee, Cameron Iron Works, Inc. No. 2,934,313 ; v. 900 ; p. 410.

Anderson, James R., Winnetka, Ill. Disclaimer filed Oct. 27, 1971, by the assignee, La Salle Street Press, Incorporated. No. 3,136,248 ; v. 896 ; p. 13.

Ando, Masao, Yokohamashi, Japan. Disclaimer filed June 22, 1971, by the assignee, Chisso Corporation. No. 3,629,551 ; v. 902 ; p. 379.

Ando, Masao, Yokohamashi, Japan. Disclaimer filed Aug. 10, 1972, by the assignee, Chisso Corporation. No. 3,632,976 ; v. 903 ; p. 2.

Angell, Richard G., Jr., Highland Park, N.J. Disclaimer filed Oct. 15, 1971, by the assignee, Union Carbide Corporation. No. 3,268,636 ; v. 895 ; p. 780.

Angell, Richard G., Jr., Bridgewater Township, Somerville, N.J. Disclaimer filed Oct. 15, 1971, by the assignee, Union Carbide Corporation. No. 3,436,446 ; v. 895 ; p. 780.

Ansel, Robert E., and Charles M. Taubman, Cook County, Ill. Disclaimer filed Dec. 17, 1971, by the assignee, De Soto, Inc. No. 3,540,886 ; v. 899 ; p. 411.

Babcock, David Lockman, and Hubert Nerwin, Rochester, N.Y. Disclaimer filed June 5, 1972, by the assignee, Eastman Kodak Company. No. 3,552,283 ; v. 901 ; p. 775.

Barr, Charles R. and John Williams, and Keith E. Whitmore, Rochester, N.Y. Disclaimer filed Nov. 5, 1971, by the assignee, Eastman Kodak Company. No. 3,227,554 ; v. 896 ; p. 13.

Barth, Bruce P., Round Brook, and Edward G. Hendricks, Belle Mead, N.J. Disclaimer filed Oct. 26, 1971, by the assignee, Union Carbide Corporation. No. 3,446,654 ; v. 904 ; p. 136.

Batzold, John S., Westfield, N.J. Disclaimer filed Aug. 12, 1970, by the assignee, Esso Research and Engineering Company. No. 3,615,836 ; v. 896 ; p. 828.

Bauman, Donald Dennis, Los Gatos, Calif. Disclaimer filed Jan. 20, 1972, by the assignee, International Business Machines Corporation, No. 3,566,281 ; v. 899 ; p. 1234.

Beckwith, Sterling, Libertyville Township. Ill. Disclaimer filed Apr. 10, 1972, by the assignee, Kysor Industrial Corporation. No. 3,130,559 ; v. 901 ; p. 4.

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Bender, Joseph L., Wheeling, and Lynn A. Williams, Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company, Reissue No. 26,531 ; v. 897 ; p. 1134.

Bender, Joseph L., Wheeling, and Lynn A. Williams, Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,214,360 ; v. 896 ; p. 828.

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Bernstein, Jack, and Kathryn Alice Losee, New Brunswick, N.J. Disclaimer and dedication filed June 29, 1972, by the inventors ; the assignee, E. R. Squibb & Sons, Inc., assenting. No. 3,660,466 ; v. 902 ; p. 804.

Bethke, Dale. L., West Covina, Calif. Disclaimer filed Mar. 8, 1972, by the inventor. No. 3,606,566 ; v. 899 ; p. 411.

Bhatt, Jayantkumar, Ottawa, Ontario, John George Mlacak, Kanata, Ontario, and Thomas Arthur Winlow, Ottawa, Ontario, Canada. Disclaimer filed Oct. 10, 1972, by the assignee, Northern Electric Company Limited. No. 3,662,117 ; v. 905 ; p. 687.

Biland, Hans Rudolf, Basel, Christian, Luethi, Muenchenstein, and Max Duennenberger, Frenkendorf, Switzerland. Disclaimer filed Apr. 11, 1972, by the inventors and the assignee, Ciba Limited, assenting. No. 3,293,249 ; v. 905 ; p. 686.

Blair, Richard W., Arlington Heights, Ill. Dedication filed Mar. 16. 1972, by the assignee, Chicago Rawhide Manufacturing Company. No. 3,291,493 ; v. 900 ; p. 1226.

Bockelmann, Victor G., El Centro, Calif. Disclaimer filed Jan. 26, 1972, by the assignee, United States of America as represented by the Secretary of the Navy. No. 3,434,681 ; v. 900 ; p. 1226.

Bolinger, Edgar Dare, Spartanburg, S.C. Dedication filed June 22, 1971, by the assignee, Deering Milliken Research Corporation. No. 3,325,989 ; v. 899 ; p. 1232.

Bonga, Benno Ibo, Onex, Geneva, Switzerland. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,536,603 ; v. 897 ; p. 386.

Borden, John V., Washington, D.C. Disclaimer filed Nov. 26, 1971, by the inventor. No. 3,324,553 ; v. 896 ; p. 13.

Bottomley, Anthony, Maplewood, N.J., and David C. Bottomley, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,283,788 ; v. 897 ; p. 4.

Bottomley, Anthony, Maplewood, N.J. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,416,299 ; v. 897 ; p. 4.

Boultinghouse, Harold D., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,369,435 ; v. 897 ; p. 4.

Boultinghouse, Harold D., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,431,875 ; v. 897 ; p. 386.

Boultinghouse, Harold D., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,473,206 ; v. 897 ; p. 387.

Boultinghouse, Harold D., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,490,664 ; v. 897 ; p. 387.

Boultinghouse, Harold D., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,491,928 ; v. 897 ; p. 387.

Brecker, Lawrence Robert, Brooklyn, N.Y. Disclaimer filed June 19, 1972, by the assignee, Argus Chemical Corporation. No. 3,565,931 ; v. 902 ; p. 378.

Bright, Richard L., Adamsburg, and George H. Royer, Pittsburgh, Pa. Disclaimer filed Nov. 10, 1971, by the assignee, Westinghouse Electric Corporation. No. 2,783,384 ; v. 905 ; p. 686.

Briskin, Theodore S., and Geoffrey R. Ward, Beverly Hills, Calif. Disclaimer and dedication filed Apr. 8, 1971, by the assignee, Sutton Research Corporation. No. 3,612,063 ; v. 897 ; p. 764.

Brooks, Winfred M., West Orange, and Sigurd M. Moberg, Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,796,277 ; v. 899 ; p. 411.

Brooks, Winfred M., West Orange, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,847,-675 ; v. 900 ; p. 410.

Brooks, Winfred M., West Orange, and Sigurd M. Moberg, Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,913,274 ; v. 900 ; p. 1226.

Brooks, Winfred M., West Orange, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 3,130,-509 ; v. 900 ; p. 1226.

Brooks, Winfred M., West Orange, and Sigurd M. Moberg, East Orange, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 3,265,426 ; v. 899 ; p. 411.

Brown, Claude V., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,423,888 ; v. 897 ; p. 386.

Brown, Claude V., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,511,901 ; v. 897 ; p. 387.

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Bruns, Norbert A., Palatine, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,311,549 ; v. 897 ; p. 5.

Bruns, Norbert A., Palatine, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,288,698 ; v. 897 ; p. 4.

Buker, Paul S., Richard D. Shepard, and David P. Wenaas, Middletown, Ohio. Disclaimer filed Nov. 4, 1971, by the assignee, Armco Steel Corporation. No. 3,606,418 ; v. 896 ; p. 14.

Burton, Charles G., Lewiston, N.Y. Disclaimer filed Feb. 17, 1972, by the inventor, the assignee, Chisholm-Ryder Company, Inc. No. 3,360,913 ; v. 900 ; p. 1226.

Butler, Kenneth, Old Lyme, Conn. Dedication filed Mar. 2, 1972, by the assignee, Pfizer Inc. No. 3,631,056 ; v. 900 ; p. 410.

Calhoun, Clinton W., Jr., Henrico County, and Frank B. Hart, Jr., Richmond, Va., and Lloyd C. Eberhard, Jr., Louisville, Ky. Dedication filed May 26, 1972 by the assignee, Reynolds Metals Company. No. 3,542,621 ; v. 902 ; p. 804.

Case, John William, Norman Frederick Crowder, and Wilfred Arthur Stephen White, Runcorn, England. Disclaimer filed Dec. 15, 1969, by the assignee, Imperial Chemical Industries Limited. No. 3,575,686 ; v. 902 ; p. 378.

Castic, William, Elkgrove Village, Ill. Disclaimer filed July 27, 1972, by the assignee, Harvey Hubbell Incorporated. No. 3,598,897 ; v. 904 ; p. 136.

Chen, Vallon Wei-Loong, Edison, N.J., and Hiroshi Amemiya, Morrisville, Pa. Disclaimer filed Mar. 24, 1972, by the assignee, RCA Corporation. No. 3,638,039; v. 904; p. 136.

Chestnut, Frank K., Jr., Middleport, and Laurence G. Mayne, Corfu, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,936,734; v. 895; p. 1217.

Chow, Alfred W., Merchantville, N.J., and John R. E. Hoover, Glenside, Pa. Disclaimer filed July 3, 1972, by the assignee, Smith Kline & French Laboratories. No. 3,197,466; v. 901; p. 1512.

Clayton, Richard W., Toms River, and Arnel E. Jackson, Audubon, N.J. Disclaimer filed July 27, 1972, by the assignee, Radio Corporation of America. No. 3,092,345; v. 904; p. 136.

Clippinger, Everett, San Rafael, and Bernard F. Mulaskey, Fairfax, Calif. Disclaimer filed Mar. 26, 1971, by the assignee, Chevron Research Company. No. 3,631,215; v. 897; p. 764.

Cordero, Humberto R., Endicott, N.Y. Dedication filed Mar. 3, 1972, by the assignee, International Business Machines Corporation. No. 3,432,810; v. 902; p. 378.

Criner, Charles B., Murrysville, Pa. Dedication filed May 26, 1972, by the assignee, Aluminum Company of America. No. 3,031,299; v. 901; p. 775.

Cushman, Robert Holbrook, Princeton, N.J. Disclaimer filed Jan. 24, 1972, by the assignee, Western Electric Company, Incorporated. No. 3,608,809; v. 899; p. 411.

Dargene, Carl J., Rockford, Ill. Disclaimer filed July 24, 1972, by the assignee, Amerock Corporation. No. 3,590,419; v. 904; p. 136.

Davis, William Eugene, and George Peter Lee, Indianapolis, Ind. Disclaimer filed Apr. 10, 1972, by the assignee, Radio Corporation of America. No. 3,399,277; v. 900; p. 410.

De Haas, Gerrit G., and Charles J. Lang, Longview, Wash. Disclaimer filed Apr. 3, 1972, by the assignee, Weyerhaeuser Company. No. 3,553,076; v. 900; p. 411.

Draves, John G., Dunkirk, Maurice R. Garrison, Hamburg, and Edward J. Skiba, Williamsville, N.Y. Disclaimer filed Apr. 12, 1972, by the assignee, Robert C. Hagner. No. 3,593,782; v. 899; p. 1234.

Duennenberger, Max, Frenkendorf, Basel-Land, Hans Rudolf Biland, Basel, and Christian Luethi, Munchenstein, Switzerland. Disclaimer filed Apr. 11, 1972, by the inventors, the assignee, Ciba-Geigy AG, assenting. No. 3,270,016; v. 904; p. 136.

Duennenberger, Max, Frenkendorf, Hans Rudolf Biland, Basel, Christian Luethi, Muenchenstein, and Max Schellenbaum, Riehen, Switzerland. Disclaimer filed Apr. 11, 1972, by the inventors and the assignee, Ciba-Geigy AG, assenting. No. 3,293,247; v. 905; p. 686.

Duncan, George I., and Robert D. Mees, Fort Wayne, Ind. Dedication filed Sept. 22, 1971, by the assignee, General Electric Company. No. 3,488,316; v. 896; p. 828.

Eckert, John Presper, Jr., and John W. Mauchly, Philadelphia, Pa. Disclaimer filed Nov. 3, 1971, by the assignee, Sperry Rand Corporation. No. 2,629,827; v. 896; p. 13.

Economou, Steven G., Wilmette, Ill. Disclaimer filed Dec. 27, 1971, by the assignee, Hollister Incorporated. No. 3,556,-101; v. 898; p. 369.

Eddy, William R., Kansas City, Kans. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,395.525; v. 897; p. 4.

Edgerton, Harold E., Belmont, Mass. Dedication filed Apr. 13, 1972, by the assignee, Honeywell Inc. No. 3,033,988; v. 902; p. 378.

Elbert, Donald L., Gulf Breeze, and Robert T. Wright, Pensacola Beach, Fla. Disclaimer filed Jan. 5, 1971, by the assignee, Monsanto Company. No. 3,565,910; v. 905; p. 686.

Engelbach, Thomas J., Middletown, N.J. Disclaimer filed June 2, 1972, by the assignee, Avery Products Corporation. No. 3,343,978; v. 900; p. 410.

Erath, Edward H., Los Angeles, Calif. Disclaimer filed Oct. 26, 1971, by the assignee, McDonnell Douglas Corporation. No. 3,304,739; v. 896; p. 13.

Eubanks, John M., Greensboro, N.C. Disclaimer filed Sept. 28, 1971, by the assignee, Bell Telephone Laboratories, Inc. No. 3.439,286; v. 894; p. 67.

Everard, Joseph J. Manitowoc, Wis. Disclaimer filed May 26, 1972, by the assignee, AMF Incorporated. No. 3,281,547; v. 901; p. 775.

Eversdyk, Martin, Bedford Heights, Ohio. Disclaimer filed Mar. 23, 1972, by the assignee, Oglebay Norton Company. No. 3,602,287; v. 899; p. 4.

Ewin, James C., Holmdel, N.J. Disclaimer filed Feb. 23, 1972, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,532,827; v. 900; p. 1227.

Fath, Joseph, Barrington, R.I., and John M. Kolyer, Seekonk, Mass. Dedication filed Mar. 29, 1972, by the assignee, Teknor Apex Company. No. 3,270,063; v. 898; p. 369.

Feather, Landis E., Sharon, and Paul Voytik, Sharpsville, Pa. Disclaimer filed June 8, 1972, by the assignee, Westinghouse Electric Corporation. No. 3,585,552; v. 901; p. 775.

Fields, David Palmer, Wilmington, Del. Disclaimer filed Sept. 3, 1971, by the assignee, E. I. du Pont de Nemours and Company. No. 3,418,147; v. 894; p. 1252.

Fisher, Gene A., Adolfo M. Guzman, John P. Harris, and Paul Y. Hu, Boulder, Colo. Disclaimers filed Sept. 23, 1971, by the assignee, International Business Machines Corporation. No. 3,543,068; v. 894; p. 67.

Forster, Wolfgang C., Middletown, N.Y. Disclaimer filed Feb. 16, 1972, by the assignee, Reichhold Chemicals, Inc. No. 3,470,118; v. 900; p. 411.

Foster, Philip B., Phoenix, Richard A. Gissel, Tempe, and Walter C. Seelbach, Scottsdale, Ariz. Disclaimer filed May 19, 1972, by the assignee, Motorola, Inc. No. 3,444,395; v. 905; p. 4.

Frank, Gerard A., Allentown, and Karl A. Schmuldt, Emmaus, Pa. Disclaimer filed Mar. 29, 1972, by the assignee, Western Electric Company, Inc. No. 3,083,595; v. 899; p. 411.

Fujinaga, Motosaku, Tokyo, Japan. Dedication filed Nov. 10, 1972, by the assignee, Marifarms, Incorporated. No. 3,477,-406; v. 905; p. 687.

Garabello, Romano, Brooklyn, N.Y. Disclaimer filed Feb. 9, 1972, by the assignee, Metropolitan Petroleum Petrochemicals Co., Inc. No. 3,422,834; v. 901; p. 4.

Garabello, Romano, Brooklyn, N.Y. Disclaimer filed Feb. 9, 1972, by the assignee, Metropolitan Petroleum Petrochemicals, Co., Inc. No. 3,425,435; v. 901; p. 4.

Gary, Simon P., Villa Park, Ill. Dedication filed Dec. 28, 1971, by the assignee, Anocut Engineering Company. No. 3,245,891; v. 897; p. 4.

Gates, Robert L., Medina, and Kenneth P. Dorschner, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, Food Machinery and Chemical Corporation. No. 2,865,730; v. 905; p. 687.

Gates, Robert L., Medina, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,898,266; v. 895; p. 1217.

Gaudry, Paul Emile, Laval des Rapides, Quebec, Canada. Disclaimer filed Sept. 5, 1972, by the assignee, Consolidated Foods Corporation. No. 3,666,258; v. 903; p. 2.

Gedge, Burton H., III, Wyoming, and Charles H. Brain, Mount Healthy, Ohio. Dedication filed Nov. 5, 1971, by the assignee, The Procter & Gamble Company. No. 3,600,319; v. 895; p. 1613.

Gentry, Finis E., and Bernard R. Tuft, Skaneateles, N.Y. Disclaimer filed Aug. 15, 1972, by the assignee, General Electric Company. No. 3,284,680; v. 902; p. 804.

Gerlach, Erwin, Stockholm, Sweden. Disclaimer filed Nov. 8, 1971, by the assignee, Eastman Kodak Company. No. 3,402,-007; v. 895; p. 1614.

Gilbert, Dixie E., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,460,416; v. 897; p. 386.

Gilles, Jack C., Shaker Heights, Ohio. Disclaimer filed Feb. 3, 1972, by the assignee, The B. F. Goodrich Company. No. 3,627,725; v. 902; p. 804.

Gilman, Harry S., Marblehead, Mass. Disclaimer filed Dec. 2, 1971, by the inventor. No. 3,525,171; v. 896; p. 14.

Giunta, John A., Long Branch, N.J. Disclaimer filed Dec. 6, 1971, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,579,198; v. 896; p. 14.

Graham, John W., Koegasbrug, Republic of South Africa. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,103,482; v. 896; p. 418.

Grahn, Arne Y., Granby, Conn. Disclaimer filed Apr. 10, 1972, by the assignee, The Poly-Choke Company, Incorporated. No. 3,556,889; v. 900; p. 411.

Greene, Max E., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,302,501; v. 897; p. 4.

Greene, Max E., Spartanburg, S.C. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,566.735; v. 897; p. 387.

Greene, Max E., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3.478,142; v. 897; p. 387.

Greene, Max E., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,577,724; v. 897; p. 387.

Hadler, Bartholdt C., and Earl L. Pelton, Midland, Mich. Disclaimer filed Mar. 2, 1972, by the assignee, The Dow Chemical Company. No. 2,810.676; v. 899; p. 1233.

Hammel, Wallace W., Jr., Chattanooga, Tenn. Disclaimer filed May 22, 1972, by the assignee, The Singer Company. No. 3,103,187; v. 904; p. 136.

Hamner, Glen P., Baton Rouge, and Ralph B. Mason, Denham Springs, La. Disclaimer filed June 11, 1971, by the inventors; the assignee, Esso Research and Engineering Company, assenting. No. 3,625,880; v. 902; p. 804.

Hancock, John, Leeds, and Albert Westerman, Normanton, England. Disclaimer filed May 4, 1971, by the assignee, Geo. Bray & Company Limited. No. 3,630,649; v. 897; p. 764.

Hansen, Roger L., Minnetonka Village, Minn. Disclaimer filed Mar. 15, 1972, by the inventor. No. 3,498,689; v. 899; p. 1234.

Harding, George D., and Howard L. Storm, Syracuse, N.Y. Dedication filed Jan. 12, 1972, by the assignee, General Electric Company. No. 3,475,651; v. 899; p. 1232.

Harrison, George C., Roseville, and Lester G. Axdahl, Maplewood, Minn. Disclaimer filed May 25, 1972, by the assignee, Minnesota Mining and Manufacturing Company. No. 3,201,-136; v. 901; p. 775.

Hart, Robert F., Downers Grove, Ill. Disclaimer filed Feb. 14, 1972, by the inventor and the assignee, General Motors Corporation. No. 3,572,860; v. 905; p. 4.

Hatch, Seymour A., Forest Park, James P. Morley, Morton Grove, and Richard W. Blair, Arlington Heights, Ill. Dedication filed Mar. 16, 1972, by the assignee, Chicago Rawhide Manufacturing Co. No. 3,291,494; v. 900; p. 1226.

Hawkins, Jerry Marvin, Lake Jackson, Tex. Disclaimer filed Apr. 22, 1971, by the assignee, The Dow Chemical Company. No. 3,634,327; v. 897; p. 1135.

Hedrick, Ross M., St. Louis, Mo., and David T. Mowry, Yokohama, Japan. Disclaimer filed Sept. 20, 1971, by the assignee, Monsanto Company. No. 3,637,491 ; v. 903 ; p. 2.

Heffron, Charles B. Metuchen, N.J. Dedication filed Mar. 16, 1972, by the assignee, Westinghouse Electric Corporation. No. 3,437,877 ; v. 905 ; p. 4.

Hein, Charles E., Newfield, N.Y., and Michael A. Schober, Rosemont, Ill. Dedication filed Jan. 21, 1972, by the assignee, Borg-Warner Corporation. No. 3,390,748 ; v. 897 ; p. 5.

Henderson, William Ernest, Lockport, Ill. Dedication filed May 24, 1971, by the assignee, Union Carbide Corporation. No. 2,890,552 ; v. 899 ; p. 411.

Herzhoff, Peter, Leverkusen, Hans Gref, Cologne-Stammheim, Fritz Maus, Cologne-Flittard, Willi Wasser, Leverkusen, Kurt Browatzki, Opladen, Josef Friedsam, Langenfeld, and Wolfgang Schweicher, Leverkusen, Germany. Disclaimer filed May 10, 1972, by the assignee, Agfa-Gevert Aktiengesellschagt. No. 3,663,292 ; v. 901 ; p. 1512.

Holland, Francis H., Billings, Mont. Disclaimer filed Mar. 21, 1972, by the inventor. No. 3,616,553 ; v. 900 ; p. 1227.

Horgan, William J., Jr., Pittsburgh, Pa. Disclaimer filed Nov. 26, 1971, by the assignee, PPG Industries, Inc. No. 3,336,-707 ; v. 895 ; p. 1614.

Huff, Herbert G., Royal Oak, and Donald J. Shelly, Westland, Mich. Disclaimer filed Nov. 18, 1971, by the assignee, While Consolidated Industries, Inc. No. 3,433,213 ; v. 901 ; p. 4.

Hughes, James K., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,541,197 ; v. 897 ; p. 387.

Hughes, James K., and Jake E. Williams, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,548,048 ; v. 897 ; p. 387.

Ingram, William T., Whitestone, N.Y. Dedication filed Mar. 14, 1972, by the assignee, Monsanto Enviro-Chem Systems, Inc. No. 2,992,986 ; v. 899 ; p. 1232.

Ipsen, Harold N., Rockford, Ill. Disclaimer filed Nov. 5, 1971, by the assignee, Alco Standard Corporation. No. 3,301,541 ; v. 896 ; p. 13.

Jacobs, Edward C., San Carlos, Calif. Disclaimer and dedication filed July 19, 1971, by the inventor. Design No. 219,-776 ; v. 894 ; p. 67.

Jaworski, Ernest G., Olivette, and Gino J. Marco, Webster Groves, Mo. Disclaimer filed Jan. 18, 1971, by the assignee, Monsanto Company. No. 3,592,917 ; v. 897 ; p. 764.

Johnson, Oscar H., South Charleston, and Allan M. Harvey, Charleston, W. Va., and Harry West, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,758,955 ; v. 896 ; p. 13.

Johnston, Mack S., Rolling Hills, Calif. Disclaimer filed Apr. 13, 1972, by the assignee, Draft Systems, Inc. No. 3,353,-724 ; v. 902 ; p. 804.

Johnston, Mack S., Kalispell, Mont. Disclaimer filed Apr. 13, 1972, by the assignee, Draft Systems, Inc. No. 3,435,997 ; v. 902 ; p. 804.

Johnston, Mack S., Rolling Hills, Calif. Disclaimer filed Apr. 13, 1972, by the assignee, Draft Systems, Inc. No. 3,497,-114 ; v. 902 ; p. 804.

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Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,945,-780 ; v. 895 ; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,946,-718 ; v. 895 ; p. 780.

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Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,955,-069 ; v. 895 ; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,955,-070 ; v. 895 ; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,960,-430 ; v. 895 ; p. 780.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,960,-431 ; v. 895 ; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,960,-432 ; v. 895 ; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,-369 ; v. 895 ; p. 780.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,-370 ; v. 895 ; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,-371 ; v. 895 ; p. 780.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,963,-398 ; v. 895 ; p. 1613.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,970,-940 ; v. 895 ; p. 780.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,990,-315 ; v. 895 ; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,990,-316 ; v. 895 ; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,990,-317 ; v. 895 ; p. 780.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,990,-318 ; v. 895 ; p. 1613.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,990,-319 ; v. 895 ; p. 1613.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,990,-322 ; v. 899 ; p. 1232.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,990,-323 ; v. 895 ; p. 780.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,995,-487 ; v. 895 ; p. 1613.

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Kane, John R., Piffard, N.Y. Disclaimer filed May 30, 1972, by the assignee. Itek Corporation. No. 3,622,332 ; v. 901 ; p. 775.

Khoury, Nick S., Chicago, Ill. Disclaimer filed Oct. 20, 1971, by the assignee, Continental Can Company, Inc. No. 3,322,-296 ; v. 894 ; p. 67.

Klein, Harold T., Bellevue, Wash. Disclaimer filed Nov. 1, 1971, by the assignee, James S. Robbins and Associates, Inc. No. 3,463,247 ; v. 900 ; p. 411.

Klein, Martin L., San Clemente, Harry C. Morgan, Anaheim, and Richard B. Rush, Granada Hills, Calif. Disclaimer filed Nov. 19, 1971, by the assignee, North American Rockwell Corporation. Reissue No. 26,910, v. 895 ; p. 1614.

Krank, Wolfgang, Gerhard Schickle, and Erich Schuttloffel, Backnang, Germany. Disclaimer filed Jan. 14, 1972, by the assignee, Telefunken Patentverwertungs G.m.b.H. No. 3,404,-357 ; v. 899 ; p. 411.

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Krumkalns, Eriks, Indianapolis, Ind. Disclaimer and dedication filed May 18, 1972, by the assignee, Eli Lilly and Company. No. 3,335,148 ; v. 901 ; p. 1512.

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La Belle, Harold E., Jr., Quincy, Mass. Disclaimer filed Mar. 25, 1971, by the assignee, Tyco Laboratories, Inc. No. 3,591,348 ; v. 897 ; p. 764.

Layton, Jack D., Salem, Oreg. Dedication filed Feb. 2, 1972, by the assignee, Layton Manufacturing Co. No. 3,286,606 ; v. 905 ; p. 687.

Lear, William P. Wichita, Kans., and Samuel H. Auld, Bloomfield Hills, Mich. Disclaimer filed Nov. 24, 1971, by the assignee, Gates Learjet Corp. No. 3,400,227 ; v. 894 ; p. 1252.

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Locke, Joseph K., De Kalb, Ill. Dedication filed Feb. 4, 1972, by the assignee, Bernzomatic Corporation. No. 3,590,806 ; v. 900 ; p. 814.

Lohman, Robert D., Princeton, N.J. Disclaimer filed July 21, 1972, by the assignee, Radio Corporation of America. No. 2,974,238 ; v. 905 ; p. 4.

Long, George E., Monroe, and Howard G. Anson, Seattle, Wash. Disclaimer filed Jan. 17, 1972, by the inventors. No. 3,537,363 ; v. 896 ; p. 14.

Loomes, William Charles, and Arthur James Marrs, Derby, and Peter Heffernan, Carlisle, Cumberland, England. Disclaimer filed Dec. 28, 1971, by the assignee, Courtaulds Limited. No. 3,581,487 ; v. 896 ; p. 828.

Lorang, Malcolm M., Garden Grove, Calif. Disclaimer filed Dec. 13, 1971, by the assignee, The Magnavox Company. No. 3,515,803 ; v. 900 ; p. 814.

Luhrs, Otto R., Boulder, Colo. Disclaimer and dedication filed Aug. 28, 1972, by the assignee, International Business Machines Corporation. No. 678,220 ; v. 905 ; p. 686.

Lusk, Dudley T., Westmont, Ill. Disclaimer filed Nov. 12, 1971, by the assignee, Chicago Bridge & Iron Co. No. 3,406,-526 ; v. 895 ; p. 1614.

MacMillan, Charles W., Rock Island, Ill. Disclaimer filed Sept. 23, 1971, by the assignee, Applied Power Industries, Inc. No. 3,393,455 ; v. 894 ; p. 4.

Maitlen, Eldon Gene, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,970,939 ; v. 895 ; p. 1217.

Malkowski, Leonard R., La Grange, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,130,140 ; v. 896 ; p. 828.

Malkowski, Leonard R., La Grange, and Sigmund H. Bielak, Downers Grove, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,563,876 ; v. 897 ; p. 1134.

Mallory, Glenn O., Jr., Inglewood, and Donald W. Baubrand, Temple City, Calif. Disclaimer filed Mar. 1, 1971, by the assignee, Allied Research Products, Inc. No. 3,627,545 ; v. 897 ; p. 764.

Marotta, Ralph, St. Louis, Mo. Disclaimer filed Apr. 3, 1972, by the assignee, Monsanto Company. No. 3,525,689 ; v. 904 ; p. 136.

Marsi, Joseph A., Baldwin Park, Calif. Disclaimer filed Oct. 10, 1972, by the assignee, Borg-Warner Corporation. No. 3,638,957 ; v. 905 ; p. 686.

Masters, John E., and Darrell D. Hicks, Louisville, Ky. Disclaimer filed Mar. 16, 1972, by the assignee, Celanese Coatings Company. No. 3,376,272 ; v. 899 ; p. 411.

Mattke, Charles F., Fanwood, N.J. Disclaimer filed Feb. 11, 1972, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,108,159 ; v. 900 ; p. 1226.

Maxey, Frank S., Akron, Ohio. Dedication filed Dec. 20, 1971, by the assignee, The Goodyear Tire & Rubber Company. No. 3,576,911 ; v. 900 ; p. 814.

McAdam, William E., Jr., Thousand Oaks, Calif. Disclaimer filed Feb. 10, 1972, by the assignee, Hughes Aircraft Company. No. 3,575,085 ; v. 899 ; p. 411.

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Metcalfe, Frederick S., Columbus, Ohio. Disclaimer filed Nov. 10, 1971, by the assignee, Westinghouse Electric Corporation. No. 3,552,470 ; v. 895 ; p. 1614.

Milligan, Terry W., Belmont, and Richard W. Young, Wellesley Hills, Mass. Disclaimer filed Mar. 29, 1972, by the assignee, Polaroid Corporation. No. 3,573,042 ; v. 899 ; p. 411.

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Mittermaier, Armin F., and Lowell M. Mason, Fort Wayne, Ind. Dedication filed Sept. 22, 1971, by the assignee, General Electric Company. No. 3,513,523 ; v. 896 ; p. 828.

Miyamura, Mitsutake, Tokyo, Japan. Dedication filed Nov. 10, 1972, by the assignee, Marifarms, Incorporated. No. 3,473,-509 ; v. 905 ; p. 687.

Moberg, Sigurd M., Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,772,-909 ; v. 899 ; p. 411.

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Moberg, Theodore J., Hartford, Wis. Disclaimer filed Feb. 10, 1972, by the assignee, Chrysler Corporation. No. 3,581,702 ; v. 900 ; p. 1227.

Moffatt, Elbert Marston, Glastonbury, Conn. Disclaimer filed Jan. 17, 1972, by the assignee, United Aircraft Corporation. No. 3,405,559 ; v. 900 ; p. 1226.

Molenaar, Lester V., Willmar, Minn. Disclaimer filed Aug. 18, 1972, by the inventor. Design No. 213,385 ; v. 905 ; p. 4.

Moodey, Hannah C., Lancaster, Pa. Disclaimer filed Jan. 14, 1972, by the assignee, RCA Corporation. No. 2,957,106 ; v. 899 ; p. 1234.

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Morley, James P., Morton Grove, Ill. Dedication filed Mar. 16, 1972, by the assignee, Chicago Rawhide Mfg. Company. No. 3,241,844 ; v. 899 ; p. 411.

Nelson, Thomas F., Stratford, Conn. Dedication filed Oct. 16, 1972, by the assignee, General Electric Company. No. 3,566,-887 ; v. 905 ; p. 687.

Newin, Hubert, Rochester, N.Y. Disclaimer filed Feb. 14, 1972, by the assignee, Eastman Kodak Company. No. 3,615,541 ; v. 900 ; p. 1227.

Newton, John D., Kingston, N.Y. Disclaimer filed Mar. 24, 1972, by the assignee, International Business Machines Corporation. No. 3,629,853 ; v. 900 ; p. 814.

Nicholson, Denzel Allan, Springfield Township, Hamilton County, Ohio. Dedication filed Mar. 8, 1972, by the assignee, The Procter & Gamble Company. No. 3,649,722 ; v. 899 ; p. 411.

Nouveau, Henry, Saint Germain-les-Corbell, Seine et Ois, France. Disclaimer filed July 15, 1970, by the assignee, Societe Anonyme Produits Metallurgie Doittau S.A. No. 3,582,369 ; v. 894 ; p. 1252.

Odom, Herbert G., Oakland, Calif. Dedication filed Jan. 3, 1972, by the assignee, Ford Industries, Inc. No. 3,542,964 ; v. 901 ; p. 4.

Odom, Martin A., Oakland, Calif. Dedication filed Jan. 3, 1972, by the assignee, Ford Industries, Inc. No. 3,268,666 ; v. 900 ; p. 814.

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Owens, John Edward, Wilmington, Del. Disclaimer and dedication filed Nov. 11, 1971, by the assignee, E. I. du Pont de Nemours and Company. No. 3,068,528 ; v. 896 ; p. 14.

Painton, Richard Clarence, and Clarence Albert Burke, Rochester, N.Y. Disclaimer filed Dec. 7, 1971, by the assignee, Eastman Kodak Company. No. 3,441,761 ; v. 896 ; p. 13.

Panissidi, Hugo A., Peekskill, N.Y. Disclaimer filed Apr. 10, 1972, by the assignee, International Business Machines Corportion. No. 3,498,535 ; v. 900 ; p. 1226.

Pastor, Sheldon Lee, Chicago, Carl W. Claras, Western Springs, Robert L. Moore, La Grange Highlands, Rudolph A. Rom, Berwyn, and Myron Zarr, Chicago, Ill. Disclaimer filed Sept. 29, 1972, by the assignee, Minnesota Mining and Manufacturing Company, consenting. No. 3,149,797 ; v. 905 ; p. 686.

Perry, James H., Worcester, Mass. Disclaimer filed May 24, 1972, by the assignee, Norton Company. No. 3,612,413 ; v. 902 ; p. 804.

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Pfau, Jean, Geneva, and Heinz Rhyner, Meyrin-Geneva, Switzerland. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,496,088 ; v. 897 ; p. 386.

Pfau, Jean, Geneva, Heinz Rhyner, Meyrin-Geneva, and Georges Marendaz, Geneva, Switzerland. Dedication filed Dec. 23, 1971, by the assignee. Anocut Engineering Company. No. 3,520,791 ; v. 897 ; p. 386.

Phillips, Bernard C., Toledo, Ohio. Dedication filed July 3, 1972, by the assignee, Borg-Warner Corporation. No. 3,275,-306 ; v. 902 ; p. 378.

Pianfetti, John A., Charleston, and Oren F. Williams and James Forrest Allen, South Charleston, W. Va. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,786,009 ; v. 896 ; p. 13.

Pink, Harold E., and Ronald G. Daringer, Cambridge, Md. Disclaimer filed Feb. 10, 1972, by the assignee, Cambridge Wire Cloth Company. No. 3,559,836 ; v. 899 ; p. 1234.

Popeil, Samuel J., Chicago, Ill. Disclaimer filed Aug. 6, 1972, by the assignee, Popeil Brothers, Inc. No. 3,614,381 ; v. 902 ; p. 804.

Post, Donald P., Palatine, Ill. Disclaimer filed Dec. 30, 1971, by the assignee, Structomatic, Inc. No. 3,530,790 ; v. 898 ; p. 369.

Potrafke, Earle M., Wilmington, Del. Disclaimer filed Aug. 20, 1970, by the assignee, E. I. du Pont de Nemours and Company. No. 3,625,755 ; v. 902 ; p. 378.

Reeder, Earl, Nutley, and Leo Henryk Sternbach, Upper Montclair, N.J. Disclaimer filed Feb. 15, 1972, by the assignee, Hoffman-La Roche Inc. No. 3,270,053 ; v. 900 ; p. 1226.

Reiser, Sidney J., and Larry Reiser, Rego Park, N.Y. Disclaimer filed Feb. 9, 1972, by the assignee, Metropolitan Petroleum Petrochemicals Co., Inc. No. 3,441,042 ; v. 901 ; p. 4.

Rigterink, Preston D., Holland, Mich. Disclaimer filed Feb. 17, 1972, by the assignee, U.S. Industries, Inc. No. 3,164,-129 ; v. 900 ; p. 1226.

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Roberts, Thomas E., Jr., Saratoga, Calif. Disclaimer filed Feb. 14, 1972, by the assignee, FMC Corporation. No. 3,452,791 ; v. 901 ; p. 4.

Robinson, Harold B., Chatham, N.J., and David J. Valley, Cleveland, Ohio. Dedication filed Jan. 25, 1972, by the assignee, Union Carbide Corporation. No. 3,264,536 ; v. 896 ; p. 13.

Robinson, Leroy E., and Dan E. Perry, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,424,358 ; v. 897 ; p. 386.

Robinson, Leroy E., and Dan E. Perry, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,554,419 ; v. 897 ; p. 387.

Romualdi, James P., Pittsburgh, Pa. Disclaimer filed Jan. 27, 1972, by the assignee, The Battelle Development Corporation. No. 3,429,094 ; v. 896 ; p. 418.

Rosen, Samuel R., Lorain, Alan B. Reighard, Bay Village, and Julius S. Drozek, Lorain, Ohio. Disclaimer filed Jan. 6, 1972, by the assignee, Nordson Corporation. No. 3,585,-361 ; v. 900 ; p. 1227.

Ross, David S., Lorain, Ohio. Disclaimer filed May 26, 1972, by the assignee, Hydro-Clear Corporation. No. 3,459,302 ; v. 901 ; p. 775.

Ross, Edward, Headington, Oxford, and Edward Clive Allen, Cowley, Oxford, England. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,409,-535 ; v. 905 ; p. 4.

Rush, Robert L., Wellington, Kans. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,112,160 ; v. 897 ; p. 4.

Sabatino, Anthony, Minneapolis, Minn. Disclaimer filed Apr. 5, 1972, by the assignee, Globe-Union Inc. No. 3,476,611 ; v. 905 ; p. 686.

Sarkisian, Robert, Oak Park, Mich. Disclaimer filed June 1, 1972, by the inventor. No. 3,662,482 ; v. 905 ; p. 687.

Schaefer, Frederic Charles, Munich-Solln, Germany, and Kenneth Robert Huffman, Stamford, Conn. Disclaimer filed Jan. 12, 1972, by the assignee, American Cyanamid Company. No. 3,225,077 ; v. 898 ; p. 369.

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Scholes, Addison B., Muncie, Ind. Disclaimer filed Nov. 12, 1971, by the assignee, Ball Corporation. No. 3,386,855 ; v. 896 ; p. 13.

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Schurman, Peter T., Snyder, and Raymond C. Confer, Gasport, N.Y. Disclaimer filed June 14, 1972, by the assignee, W. R. Grace & Co. No. 3,441,071 ; v. 902 ; p. 378.

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Sheehan, William C., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,416,772 ; v. 897 ; p. 386.

Shepherd, Thomas H., and Francis E. Gould, Princeton, N.J. Disclaimer filed Aug. 11, 1970, by the assignee, National Patent Development Corporation. No. 3,574,826 ; v. 896 ; p. 828.

Shepherd, Thomas H., Hopewell, and Francis E. Gould, Princeton, N.J. Disclaimer filed Jan. 13, 1972, by the assignee, National Patent Development Corporation. No. 3,660,561 ; v. 901 ; p. 1512.

Shepherd, Thomas H., Hopewell, and Francis E. Gould, Princeton, N.J. Disclaimer filed Sept. 1, 1972, by the assignee, National Patent Development Corporation. No. 3,670,073 ; v. 903 ; p. 2.

Shiber, Samuel, Chicago, Ill. Dedication filed Jan. 21, 1972, by the assignee, Borg-Warner Corporation. No. 3,561,213 ; v. 897 ; p. 386.

Simons, Edward W., San Francisco, Calif. Disclaimer filed Nov. 24, 1971, by the assignee, Dualjet Corporation. No. 2,862,369 ; v. 896 ; p. 13.

Sizer, Phillips S., Dallas, and Harry E. Schwegman, Richardson, Tex. Disclaimer and dedication filed Feb. 18, 1972, by the assignee, Otis Engineering Corporation. No. 3,608,631 ; v. 905 ; p. 686.

Skinner, Bradley, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,416,714 ; v. 897 ; p. 4.

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Southworth, Hamilton, Jr., New York, N.Y. Dedication filed July 7, 1972, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,568,626 ; v. 902 ; p. 804.

Speck, Stanley Brooke, Wilmington, Del. Disclaimer filed Dec. 9, 1971, by the assignee, E. I. du Pont de Nemours and Company. No. 3,485,814 ; v. 896 ; p. 14.

Spivy, Paul L., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,401,517 ; v. 897 ; p. 4.

Stapfer, Christian H., Newtown, Pa. Disclaimer filed Feb. 7, 1972, by the assignee, Cincinnati Milacron Chemicals, Inc. No. 3,630,962 ; v. 900 ; p. 814.

Stenner, Irving H., Brockport, N.Y. Dedication filed Feb. 4, 1972, by the assignee, Bernzomatic Corporation. No. 3,590,-860 ; v. 900 ; p. 814.

Stern, Max H., and Gregory J. Lestina, Rochester, N.Y. Disclaimer filed Nov. 9, 1972, by the assignee, Eastman Kodak Company. No. 3,574,627 ; v. 905 ; p. 686.

Stewart, Dan F., Rob C. Blair, Max E. Greene, and Lloyd R. Alexander, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,579,618 ; v. 897 ; p. 387.

Stewart, Donald D., Plainfield, N.J. Disclaimer filed Oct. 21, 1971, by the assignee, Union Carbide Corp. No. 3,600,216 ; v. 894 ; p. 67.

Storm, James C., Corpus Christi, Tex. Disclaimer filed Dec. 10, 1971, by the inventor. No. 3,451,493 ; v. 896 ; p. 13.

Sturrock, Francis C., Skokie, Ill. Dedication filed Apr. 14, 1972, by the assignee, Bell & Howell Company. No. 3,445,-155 ; v. 900 ; p. 1226.

Taylor, Bert S., New York, N.Y., and Martin R. Lutz, Arlesheim, Basel-Land, Switzerland. Dedication filed Jan. 14, 1972, by the assignee, FMC Corporation. No. 3,325,563 ; v. 900 ; p. 814.

Thompson, Joseph, East Amwell Township, Hunterdon County, N.J. Disclaimer filed Feb. 4, 1972, by the assignee, Illinois Water Treatment Co. No. 3,382,169 ; v. 896 ; p. 418.

Thompson, Wirt L., Jr., Fairfield, Conn. Disclaimer and dedication filed June 2, 1972, by the inventor. No. 2,918,160 ; v. 901 ; p. 775.

Tracy, Herbert E., Alhambra, Calif. Disclaimer filed Mar. 27, 1972, by the assignee, Borg-Warner Corporation. No. 3,612,-548 ; v. 900 ; p. 1227.

Van Doorn, Donald W., and William C. Pease III, Columbus, and Jack L. Colquett, Hamilton, Ga., Jack H. Tinkler, Phenix City, Ala., and Ted E. Huguley, Columbus, Ga. Disclaimer filed Dec. 13, 1971, by the assignee, Lummus Cotton Gin Company. No. 3,521,550 ; v. 900 ; p. 411.

Vandersyde, Francis E., Gilroy, Thomas E. Roberts, Jr., Saratoga, and Arthur L. McGee, San Jose, Calif. Disclaimer filed Feb. 14, 1972, by the assignee, FMC Corporation. No. 3,452,790 ; v. 899 ; p. 1234.

Van Hekken, Frans, East Lampeter Township, Lancaster County, Pa. Disclaimer filed Feb. 2, 1972, by the assignee, Radio Corporation of America. No. 3,294,999 ; v. 904 ; p. 136.

Walter, Harold Lee, and Jean Arthur Malthaner, San Diego, Calif. Disclaimer and dedication filed Nov. 1, 1971, by the assignee, General Dynamics Corporation. No. 3,363,862 ; v. 896 ; p. 14.

Webber, J. Alan, Indianapolis, Ind. Disclaimer filed Mar. 13, 1972, by the inventor, the assignee, Eli Lilly and Company, assenting. No. 3,674,784 ; v. 903 ; p. 2.

Weir, Stanley M., Palo Alto, Calif. Disclaimer filed June 21, 1971, by the assignee, FMC Corporation. No. 3,616,088 ; v. 902 ; p. 378.

Wiedeman, Karl, Cherry Hill, N.J. Disclaimer filed Apr. 19, 1972, by the assignee, Melitta, Inc. Design No. 222,734 ; v. 905 ; p. 4.

Wiedeman, Karl, Cherry Hill, N.J. Disclaimer filed Apr. 19, 1972, by the assignee, Melitta, Inc. Design No. 222,735 ; v. 905 ; p. 686.

Wilkins, Paul E., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,397,825 ; v. 897 ; p. 4.

Wilkinson, Samuel, London, England. Disclaimer filed Nov. 19, 1971, by the assignee, Burroughs Wellcome Co. No. 3,223,587 ; v. 896 ; p. 13.

Willard, Joe R., and John F. Henahan, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,841,520 ; v. 896 ; p. 13.

Willard, Joe R., and John F. Henahan, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,877,152 ; v. 895 ; p. 780.

Willard, Joe R., and John F. Henahan, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,916,415 ; v. 895 ; p. 895.

Willard, Joe R., and John F. Henahan, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,928,862 ; v. 901 ; p. 4.

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